

Pioneer

AUDIO & AV 2017
CAR ENTERTAINMENT

Vol. 1



2017 PIONEER NEW PRODUCTS

ENTERTAINMENT

Pioneer's original apps (such as those for Pioneer ARC* and AppRadio™**) installed in iPhone® and Android™ phones offer a new style of in-car entertainment. Listeners can get more into the stream of their favorite music with MIXTRAX® to create non-stop mixes with DJ effects and light pulsing to music beats. Pick and play your favorites among millions of streaming selections and open your senses to expanding worlds of musical sensation.

*For audio receivers
**For AV receivers

CONNECTIVITY

Taking advantage of smartphone support, Pioneer in-car entertainment connections combine the capabilities of AppRadio Mode for easy viewing and touchscreen operation of favorite apps in iPhone and Android phones; Apple CarPlay™ and Android Auto™ entertainment control via voice command. With support for Spotify®, you can control the Spotify® app on your smartphone via your car receiver's interface.



Pioneer's in-car AV entertainment gear continues to dominate with easy, precise control plus more connectivity for peerless sound and vision with the utmost convenience.

QUALITY

Specially designed Pioneer AV and audio receivers, and selected audio parts incorporate exclusive sound field technology that helps make sound more stirring. Enhanced audio functions let listeners finely tune sound fields with supremely precise control. Moreover, brilliant reproduction of sound from FLAC files surpasses playback of CD tracks in terms of audio quality.

CONVENIENCE

The Pioneer ARC app lets you control of the audio receiver using a smartphone's touchscreen. Even detailed settings for audio, etc. are easy with this intuitive interface. Larger displays and specially designed construction of new audio receivers make more information easily visible from the driver's seat. A sophisticated user interface featuring new clear-type resistive touchscreen enhances intuitive control, utility and visibility.

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AV RECEIVERS



KEY FEATURES STEP-UP COMPARISON CHART

	DIN Size	Display	Preout	Playback	Video Format	Audio Format	AUX Input (Mini-Jack)	USB Interface	SD/SDHC Memory Card Slot	HDMI Input	Direct Control for iPod/iPhone ^{*1}	Direct Control for Certain Android Phones ^{*1, *2}	AppRadio Mode ^{*1}	Apple CarPlay Compatible ^{*3}	Android Auto Compatible ^{*4}	Spotify [®]	Built-in MirrorLink™ ^{*4}	Bluetooth ^{*4, *5}	MIXTRAX	Dual Zone Audio/Video	Auto EQ Auto Time Alignment	USB Quick Charge for Android (COP) ^{*5, *6}	Advanced Sound Retriever	Back-Up Camera Ready	Page Number
AVH-X8850BT	2-DIN	7.0" LED-WVGA	3 (4 V)	DVD/CD	H.264 ^{*7} FLV ^{*7} WMV ^{*7} DivX ^{*8} MPEG-1 ^{*9} /2 ^{*9} /4	WAV ^{*7} MP3 WMA AAC FLAC ^{*7}	Rear	Rear x 2			USB (Rear)	Bluetooth	iPhone Android ^{*2}					HFP A2DP AVRCP SSP SPP			CD-MC20		ND-BC8 ND-BC20PA (Dual Camera Inputs)	07	
AVH-X5850BT	2-DIN	7.0" LED-WVGA	3 (4 V)	DVD/CD	H.264 ^{*7} DivX ^{*8} MPEG-1 ^{*9} /2 ^{*9} /4	WAV ^{*7} MP3 WMA AAC FLAC ^{*7}	Rear	Rear			USB	USB Bluetooth	iPhone Android ^{*2} (AppRadio Mode USB)						HFP A2DP AVRCP SSP SPP		CD-MC20		ND-BC8 ND-BC20PA	08	
AVH-X4850DVD	2-DIN	7.0" LED-WVGA	3 (4 V)	DVD/CD	H.264 ^{*7} DivX ^{*8} MPEG-1 ^{*9} /2 ^{*9} /4	WAV ^{*7} MP3 WMA AAC FLAC ^{*7}	Rear	Rear			USB	USB	iPhone Android ^{*2} (AppRadio Mode USB)			iPhone					CD-MC20		ND-BC8 ND-BC20PA	09	
AVH-X2850BT	2-DIN	6.2" LED-WVGA	3 (4 V)	DVD/CD	H.264 ^{*7} DivX ^{*8} MPEG-1 ^{*9} /2 ^{*9} /4	WAV ^{*7} MP3 WMA AAC FLAC ^{*7}	Rear	Rear			USB	USB Bluetooth	iPhone Android ^{*2} (AppRadio Mode USB)			iPhone Android ^{*2}			HFP A2DP AVRCP SSP SPP		CD-MC20		ND-BC8 ND-BC20PA	08	
AVH-X1850DVD	2-DIN	6.2" LED-WVGA	3 (4 V)	DVD/CD	H.264 ^{*7} DivX ^{*8} MPEG-1 ^{*9} /2 ^{*9} /4	WAV ^{*7} MP3 WMA AAC FLAC ^{*7}	Rear	Rear			USB	USB	iPhone Android ^{*2} (AppRadio Mode USB)			iPhone					CD-MC20		ND-BC8 ND-BC20PA	09	
AVH-295BT	2-DIN	6.2" LED-WVGA	2 (2 V)	DVD/CD	DivX MPEG-1/2/4	WAV MP3 WMA AAC	Rear	Rear			USB								HFP A2DP AVRCP SSP				ND-BC8 ND-BC20PA	11	
AVH-195DVD	2-DIN	6.2" LED-WVGA	2 (2 V)	DVD/CD	DivX MPEG-1/2/4	WAV MP3 WMA AAC	Rear	Rear			USB												ND-BC8 ND-BC20PA	12	
AVH-X7850BT	1-DIN	7.0" LED-WVGA	3 (4 V)	DVD/CD	H.264 ^{*7} DivX ^{*8} MPEG-1 ^{*9} /2 ^{*9} /4	WAV ^{*7} MP3 WMA AAC FLAC ^{*7}	Rear	Rear			USB	USB Bluetooth	iPhone Android ^{*2} (AppRadio Mode USB)			iPhone Android ^{*2}			HFP A2DP AVRCP SSP SPP		CD-MC20		ND-BC8 ND-BC20PA	10	
AVH-X6850DVD	1-DIN	7.0" LED-WVGA	3 (4 V)	DVD/CD	H.264 ^{*7} DivX ^{*8} MPEG-1 ^{*9} /2 ^{*9} /4	WAV ^{*7} MP3 WMA AAC FLAC ^{*7}	Rear	Rear			USB	USB	iPhone Android ^{*2} (AppRadio Mode USB)			iPhone					CD-MC20		ND-BC8 ND-BC20PA	10	
AVH-4850BT	1-DIN	7.0" LED-WVGA	3 (2 V)	DVD/CD	DivX MPEG-1/2/4	WAV ^{*7} MP3 WMA AAC	Front	Front											HFP A2DP AVRCP SSP				ND-BC8 ND-BC20PA	11	
AVH-3850DVD	1-DIN	7.0" LED-WVGA	3 (2 V)	DVD/CD	DivX MPEG-1/2/4	WAV ^{*7} MP3 WMA AAC	Front	Front															ND-BC8 ND-BC20PA	12	
AVH-XL5750BT	2-DIN	7.0" LED-WVGA	3 (4 V)	DVD/CD	H.264 ^{*7} DivX ^{*8} MPEG-1 ^{*9} /2 ^{*9} /4	WAV ^{*7} MP3 WMA AAC	Rear	Rear			USB	USB Bluetooth	iPhone Android ^{*2} (AppRadio Mode USB)						HFP A2DP AVRCP SSP SPP		CD-MC20		ND-BC8 ND-BC20PA	13	
AVH-XL4750DVD	2-DIN	7.0" LED-WVGA	3 (4 V)	DVD/CD	H.264 ^{*7} DivX ^{*8} MPEG-1 ^{*9} /2 ^{*9} /4	WAV ^{*7} MP3 WMA AAC	Rear	Rear			USB	USB	iPhone Android ^{*2} (AppRadio Mode USB)								CD-MC20		ND-BC8 ND-BC20PA	13	
MVH-AV285BT	2-DIN	6.2" LED-WVGA	2 (2 V)	DVD/CD	DivX MPEG-4	WAV MP3 WMA AAC	Rear	Rear			USB								HFP A2DP AVRCP SSP				ND-BC8 ND-BC20PA	11	
MVH-AV185	2-DIN	6.2" LED-WVGA	2 (2 V)	DVD/CD	DivX MPEG-4	WAV MP3 WMA AAC	Rear	Rear			USB												ND-BC8 ND-BC20PA	12	
DVH-885AVBT	1-DIN	3.5"	2 (4 V)	DVD/CD	DivX MPEG-1/2/4	MP3 WMA AAC	Front	Front			USB ^{*10}	Bluetooth							HFP A2DP AVRCP SSP SPP				ND-BC8 ND-BC20PA	20	
DVH-785AV	1-DIN	3.0"	2 (2 V)	DVD/CD	DivX MPEG-1/2/4	MP3 WMA	Front	Front															ND-BC8 ND-BC20PA	20	
DVH-345SUB	1-DIN		2 (2 V)	DVD/CD	DivX MPEG-1/2/4	WAV ^{*7} MP3 WMA AAC	Front	Front																21	

*1. Optional cable required. Please refer to page 100 for compatibility.

*2. Not all Android phones are compatible.

*3. CD-US2 required (sold separately).

*4. CD-MU200 required (sold separately).

*5. HFP = Hands-Free Profile, A2DP = Advanced Audio Distribution Profile, AVRCP = Audio/Video Remote Control Profile, SSP = Secure Simple Profile, SPP = Serial Port Profile. Please refer to instruction manual for other information about profile compatibility.

*6. Provides up to 1.5 amperes to give an Android smartphone a quick charge.

*7. Only for USB Devices or SD Memory Card.

*8. Only for DVD or CD.

*9. Compatible with MIXTRAX EZ. Not compatible with full-featured Non-Stop Mix Play using MIXTRAX software that analyzes track information (BPM, bar, beat/vocal position, mood).

*10. Only for audio files.

CONNECTIVITY

AppRadio Mode



AVH-X8850BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD AVH-XL5750BT AVH-XL4750DVD

AppRadio Mode* allows compatible applications on an iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5 or Android phone** to be viewed and controlled directly from the receiver's touchscreen display.

* App Radio Mode: Compatible with AVH-X8850BT. See page 97 for accessories, and 100 for iPod/iPhone and Android compatibility.

AppRadio Mode USB (not for iPod touch): Compatible with AVH-X5850BT, AVH-X4850DVD, AVH-X2850BT, AVH-X1850DVD, AVH-X7850BT, AVH-X6850DVD, AVH-XL5750BT and AVH-XL4750DVD.

** Not all Android phones are compatible.

AppRadioLIVE

The AppRadioLIVE App gives you access to all the elements of your digital lifestyle in one place via AppRadio Mode.



Apple CarPlay

AVH-X8850BT

Apple CarPlay is the safer, smarter and more fun way to use your iPhone in the car. It launches automatically by just plugging in.



Android Auto™

AVH-X8850BT

Android Auto extends the Android platform into the car in a way that's purpose-built for driving.



Note: Availability of Android Auto may vary depending upon your country and phone model.

Bluetooth®

AVH-X8850BT AVH-X5850BT AVH-X2850BT AVH-295BT AVH-X7850BT AVH-4850BT
AVH-XL5750BT MVH-AV285BT DVH-885AVBT

Bluetooth Wireless Technology makes audio playback and phone call operation comfortable and safe while driving.

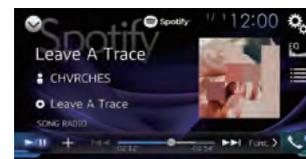


Spotify®

AVH-X5850BT AVH-X4850DVD* AVH-X2850BT AVH-X1850DVD* AVH-X7850BT AVH-X6850DVD*

Spotify® gives you all the music you'll ever need. Find the songs you love instantly, or let Spotify® play you something great. With support for Spotify®, just connect your compatible smartphone to Pioneer Receiver to fill your ride with everything from classic tracks to the latest hits.

* Compatible with iPhone only.



AUDIO

Support FLAC Codec*

AVH-X8850BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD



New Pioneer AV receiver upgrades in-car audio with amazingly brilliant reproduction of sound by FLAC files surpass CD tracks in terms of playback audio quality.

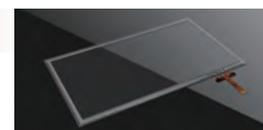
* For the files stored in USB thumb drive.

OTHERS

Clear Type Resistive Touch Panel

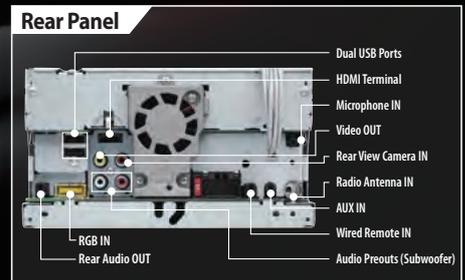
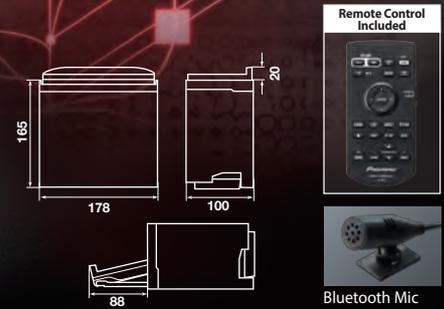
All Receivers (Except AVH-XL5750BT, AVH-XL4750DVD, AVH-4850BT, AVH-3850DVD, DVH-885AVBT, DVH-785AV and DVH-345UB)

The new Pioneer AV receivers' display panel are designed as beautifully crisp and it brings you enhanced visibility.



AVH-X8850BT NEW

In-Dash Double-DIN Flagship DVD Multimedia AV Receiver with 7" WVGA Touchscreen Display, MIXTRAX, Dual USB, and SD Card Slot



Touch Panel Screen **7.0W** **VGA** **LED** **MULTIPLE COLOR** **MULTI-LANGUAGE DISPLAY**

DVD **VIDEO** **flac** **MP3** **WMA** **AAC** **DIVX**

DOLBY DIGITAL **IN** **SD** **HDMI** **Dual Zone** **3 RCA PRE-OUTS**

Hi-VOLT **24bit DA Converter** **Auto EQ** **TVS Tuner Ready** **WIRED REMOTE CONTROL** **RDS**

SUPER TUNER III **MOSFET 50Wx4** **Siri Eyes Free**

RETRACTABLE FACE SECURITY **Back Up Camera Ready**

Works with **Apple CarPlay**

android auto

Made for **iPod iPhone**

MIXTRAX **AppRadio MODE** **Bluetooth** **Dual USB**

Key Selling Points

- Point 1**
Pages 14-16

Enhanced and advanced smartphone connectivity for today's smartphone-driven lifestyle including compatibility with Apple CarPlay, Android Auto™ and AppRadio Mode.
- Point 2**
Page 17

Experience non-stop music playback based on music data analysis that delivers a seamless mix created by a virtual DJ.

MIXTRAX
- Point 3**
Page 19

An all new smartphone-inspired user interface provides an easy-to-use and intuitive experience.

Main Features (Blue text: upgraded features from AVH-XL5750BT)

- MIXTRAX
- 7" WVGA Clear Type Resistive Touch Panel Display with LED Backlight
- Multi-Language Display* (Menu/ID3 Tag)
- Color Customization (5-Display Colors and 112-Key Colors)
- Direct Control for iPod®/iPhone (USB/Bluetooth)
- Direct Control for Certain Android Phones (Bluetooth)
- AppRadio Mode for iPod/iPhone & Certain Android Phones
- Apple CarPlay Compatible
- Android Auto Compatible
- Built-in Bluetooth® Wireless Technology (Hands-Free Calling/Wireless Audio)
- Siri Eyes Free
- Dual USB Ports (Rear: High Current 1 A Handling Capability)
- SD/SDHC Memory Card Slot
- AUX Input (Audio/Video)
- HDMI Input
- RGB Input
- DVD/CD Player with DVD Video Playback
- H.264/FLV/WMV/MPEG-4/MP3/WMA/iTunes AAC/WAV/FLAC** Playback from SD Memory Card/USB Device
- DivX®/MPEG-1, -2, -4/MP3/WMA/iTunes AAC Playback from DVD/CD
- Dual Zone Audio/Video
- Advanced Sound Retriever
- SR Air
- MOSFET 50 W x 4
- Hi-Volt RCA Preouts x 3 (4 V)
- 13-Band Graphic EQ
- Auto EQ & Auto Time Alignment (CD-MC20 Required)
- Pioneer TV Tuner Ready
- JPEG Slide Show
- Back-Up Camera Ready
- Detachable Face Security™
- Wired Remote Input
- Power Off Mode
- Display Off Mode
- RDS

iPod/iPhone Compatibility

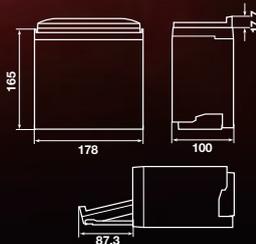
Made for
iPhone 6 Plus, iPhone 6 (AppRadio Mode Compatible)
iPhone 5s, iPhone 5c, iPhone 5 (AppRadio Mode Compatible)
iPhone 4s (AppRadio Mode Compatible)
iPhone 4 (AppRadio Mode Compatible)
iPhone 3GS
iPod touch® (2nd, 3rd, 4th, and 5th* generation)
iPod classic*
iPod nano® (3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 100 for more details.

* AppRadio Mode Compatible.

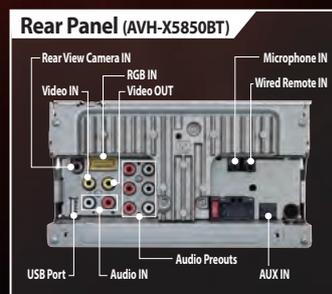
AVH-X5850BT

In-Dash Double-DIN DVD Multimedia AV Receiver with 7" WVGA Touchscreen Display, MIXTRAX, Built-in Bluetooth®, and Direct Control for iPod/iPhone and Certain Android Phones



AVH-X2850BT

In-Dash Double-DIN DVD Multimedia AV Receiver with 6.2" WVGA Touchscreen Display, MIXTRAX, Built-in Bluetooth, and Direct Control for iPod/iPhone and Certain Android Phones



*1. 6.2-inch display: AVH-X2850BT.

Key Selling Points

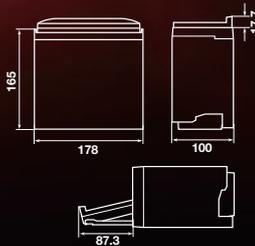
- Point 1**
Pages 14-15
Experience the exclusive in smartphone connectivity with AppRadio Mode USB by simple cable connection.
- Point 2**
Page 17
Non-Stop Mix Play makes it quick and easy to enjoy simple, seamless music sequencing. Display Visualizer provides for cool visuals that suitably enhance the mood in your car cabin.
- Point 3**
Page 18
Enjoy superior in-car AV performance with 13-Band Graphic EQ, FLAC codec playback* and other high quality functions.

* For the files stored in USB thumb drive.



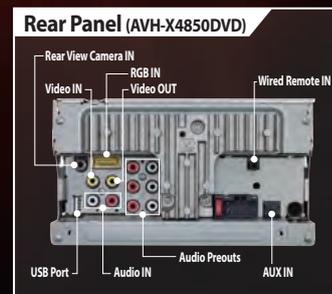
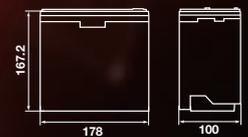
AVH-X4850DVD

In-Dash Double-DIN DVD Multimedia AV Receiver with 7" WVGA Touchscreen Display, MIXTRAX, and Direct Control for iPod/iPhone and Certain Android Phones



AVH-X1850DVD

In-Dash Double-DIN DVD Multimedia AV Receiver with 6.2" WVGA Touchscreen Display, MIXTRAX, and Direct Control for iPod/iPhone and Certain Android Phones



Touch Panel Screen **7.0W/6.2W***1 VGA LED MULTIPLE COLOR DISPLAY MULTI-LANGUAGE DISPLAY DOLBY DIGITAL APP MODE USB AUX IN 3 RCA Hi-VOLT 24bit flac MIXTRAX Spotify Smartphone Compatible AppRadio MODE Made for iPod iPhone

Auto EQ Tuner Ready STEREO REMOTE (IR/RS) RDS SUPER TUNER III MOSFET 50Wx4 Back UP Camera

Common Main Features *(Blue text: upgraded features from AVH-295BT)*

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Multi-Language Display* (Menu/ID3 Tag)
- Color Customization (5-Display Colors and 112-Key Colors)
- AppRadio Mode USB for iPod/iPhone & Certain Android Phones
- App Mode
- USB Port (Rear: High Current 1A Handling Capability)
- USB Quick Charge for Android (CDP)
- AUX Input (Audio/Video)
- RGB Input
- DVD/CD Player with DVD Video Playback
- MPEG-4/MP3/WMA/iTunes AAC/WAV Playback from USB Device
- H.264/FLAC** Playback from USB Device
- DivX*/MPEG-1, -2, -4/MP3/WMA/iTunes AAC Playback from CD/DVD
- Advanced Sound Retriever
- MOSFET 50 W x 4
- Hi-Volt RCA Preamplifiers x 3 (4 V)
- 13-Band Graphic EQ
- Auto EQ & Auto Time Alignment (CD-MC20 Required)
- 3-Way Network Mode (High/Mid/Low)
- Pioneer TV Tuner Ready
- JPEG Slide Show
- Back-Up Camera Ready
- Wired Remote Input
- Power Off Mode
- Display Off Mode
- Steering Wheel Control Function Expansion
- RDS

AVH-X5850BT Main Features

(Blue text: upgraded features from AVH-X4850DVD)

- 7" WVGA Clear Type Resistive Touch Panel Display with LED Backlight
- Direct Control for iPod/iPhone (USB/Bluetooth)
- Direct Control for Certain Android Phones (USB/Bluetooth)
- Spotify® (iPhone/Android)
- Built-in Bluetooth® Wireless Technology (Hands-Free Calling/Wireless Audio)
- Siri Eyes Free
- SR Air

AVH-X4850DVD Main Features

(Blue text: upgraded features from AVH-X2850BT)

- 7" WVGA Clear Type Resistive Touch Panel Display with LED Backlight
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)
- Spotify® (iPhone)

AVH-X2850BT Main Features

(Blue text: upgraded features from AVH-X1850DVD)

- 6.2" WVGA Clear Type Resistive Touch Panel Display with LED Backlight
- Direct Control for iPod/iPhone (USB/Bluetooth)
- Direct Control for Certain Android Phones (USB/Bluetooth)
- Spotify® (iPhone/Android)
- Built-in Bluetooth® Wireless Technology (Hands-Free Calling/Wireless Audio)
- Siri Eyes Free
- SR Air

AVH-X1850DVD Main Features

(Blue text: upgraded features from AVH-295BT)

- 6.2" WVGA Clear Type Resistive Touch Panel Display with LED Backlight
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)
- Spotify® (iPhone)

*1. 6.2-inch display: AVH-X1850DVD.

iPod/iPhone Compatibility

Made for
iPhone 6 Plus, iPhone 6 (AppRadio Mode USB Compatible)
iPhone 5s, iPhone 5c, iPhone 5 (AppRadio Mode USB Compatible)
iPhone 4s
iPhone 4
iPhone 3GS
iPod touch (2nd, 3rd, 4th, and 5th generation)
iPod classic
iPod nano (3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 100 for more details.

* See page 19 for more details.
** For the files stored in USB thumb drive.
See page 97 for accessories.

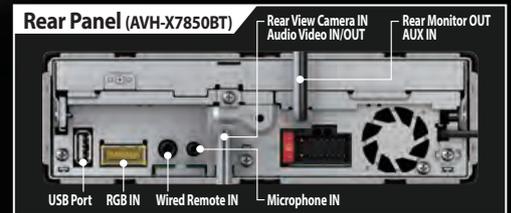
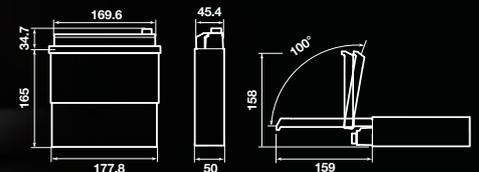
AVH-X7850BT

In-Dash 1-DIN DVD Multimedia AV Receiver with 7" WVGA Touchscreen Display, MIXTRAX, Built-in Bluetooth®, and Direct Control for iPod/iPhone and Certain Android Phones



AVH-X6850DVD

In-Dash 1-DIN DVD Multimedia AV Receiver with 7" WVGA Touchscreen Display, MIXTRAX, and Direct Control for iPod/iPhone and Certain Android Phones



Note: "Bluetooth Wireless Technology" and "Siri Eyes Free" for AVH-X7850BT.

Key Selling Points

Point 1
Pages 14-15
Experience the exclusive in smartphone connectivity with AppRadio Mode USB by simple cable connection.

Made for

Point 2
Page 17
Non-Stop Mix Play makes it quick and easy to enjoy simple, seamless music sequencing. Display Visualizer provides for cool visuals that suitably enhance the mood in your car cabin.

MIXTRAX

Point 3
Page 18
Enjoy superior in-car AV performance with 13-Band Graphic EQ, FLAC codec playback* and other high quality functions. *For the files stored in USB thumb drive.



Common Main Features (Blue text: upgraded features from AVH-4850BT)

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- 7" WVGA Clear Type Resistive Touch Panel Display with LED Backlight
- Multi-Language Display* (Menu/ID3 Tag)
- Color Customization (5-Display Colors and 112-Key Colors)
- AppRadio Mode USB for iPod/iPhone & Certain Android Phones
- App Mode
- USB Port (Rear: High Current 1 A Handling Capability)
- USB Quick Charge for Android (CDP)
- AUX Input (Audio/Video)
- RGB Input
- DVD/CD Player with DVD Video Playback
- MP3/WMA/iTunes AAC/WAV Playback from USB Device
- H.264/MPEG-4/FLAC** Playback from USB Device
- DivX*/MPEG-1, -2, -4/MP3/WMA/iTunes AAC Playback from CD/DVD
- Advanced Sound Retriever
- MOSFET 50W x 4
- Hi-Volt RCA Preouts x 3 (4V)
- 13-Band Graphic EQ
- Auto EQ & Auto Time Alignment (CD-MC20 Required)
- 3-Way Network Mode (High/Mid/Low)
- Pioneer TV Tuner Ready
- JPEG Slide Show

AVH-X7850BT Main Features

(Blue text: upgraded features from AVH-X6850DVD)

- Direct Control for iPod/iPhone (USB/Bluetooth)
- Direct Control for Certain Android Phones (USB/Bluetooth)
- Spotify* (iPhone/Android)
- Built-in Bluetooth Wireless Technology (Hands-Free Calling/Wireless Audio)
- Siri Eyes Free
- SR Air

AVH-X6850DVD Main Features

(Blue text: upgraded features from AVH-4850BT)

- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)
- Spotify* (iPhone)

* See page 19 for more details.

** For the files stored in USB thumb drive.

See page 97 for accessories.

iPod/iPhone Compatibility

Made for
iPhone 6 Plus, iPhone 6 (AppRadio Mode USB Compatible)
iPhone 5s, iPhone 5c, iPhone 5 (AppRadio Mode USB Compatible)
iPhone 4s
iPhone 4
iPhone 3GS
iPod touch (2nd, 3rd, 4th, and 5th generation)
iPod classic
iPod nano (3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 100 for more details.

AVH-4850BT

In-Dash 1-DIN DVD Multimedia AV Receiver with 7" WVGA Touchscreen Display, Built-in Bluetooth®, and Front USB Port



Main Features *(Blue text: upgraded features from AVH-3850DVD)*

- 7" WVGA Touch Panel Display with LED Backlight
- Multi-Language Display (Menu/ID3 Tag) (English/Spanish/Portuguese/Russian)
- **Built-in Bluetooth Wireless Technology (Hands-Free Calling/Wireless Audio)**
- USB Port (Front)
- Front AUX Input (Audio/Video)
- DVD/CD Player with DVD Video Playback
- DivX®/MPEG-1, -2, -4/MP3/WMA/iTunes AAC/WAV Playback from USB Device
- DivX/MPEG-1, -2, -4/MP3/WMA/iTunes AAC Playback from CD/DVD
- MOSFET 50 W x 4
- RCA Preouts x 3 (2 V)
- 3-Band Graphic EQ (Bass/Mid/Treble)
- Back-Up Camera Ready
- Rotary Volume Control
- Wired Remote Input
- Display Off Mode

See page 97 for accessories.

7.0W **MP3 WMA AAC DIVX** **Bluetooth**
MOSFET 50Wx4

AVH-295BT **NEW**

In-Dash Double-DIN DVD Multimedia AV Receiver with 6.2" WVGA Touchscreen Display, Built-in Bluetooth, and Direct Control for iPod/iPhone



RC/RI: Remote control unit included.
RD: Remote control unit is optional.

Main Features *(Blue text: upgraded features from AVH-195DVD)*

- 6.2" WVGA Clear Type Resistive Touch Panel Display with LED Backlight
- Multi-Language Display* (Menu/ID3 Tag)
- Direct Control for iPod/iPhone (USB)
- **Built-in Bluetooth Wireless Technology (Hands-Free Calling/Wireless Audio)**
- USB Port (Rear: High Current 1A Handling Capability)
- AUX Input (Audio/Video)
- DVD/CD Player with DVD Video Playback
- DivX/MPEG-4/MP3/WMA/iTunes AAC/WAV Playback from USB Device
- DivX/MPEG-1, -2, -4/MP3/WMA/iTunes AAC/WAV Playback from CD/DVD
- MOSFET 50 W x 4
- RCA Preouts x 2 (2 V)
- 5-Band Graphic EQ
- JPEG Slide Show
- Back-Up Camera Ready
- Wired Remote Input
- Display Off Mode
- RDS

* See page 19 for more details.

See page 97 for accessories, and 100 for iPod/iPhone Compatibility.

6.2W **MP3 WMA AAC DIVX** **Bluetooth**
RDS **MOSFET 50Wx4**

MVH-AV285BT

In-Dash Double-DIN Digital Media AV Receiver with 6.2" WVGA Touchscreen Display, Built-in Bluetooth, and Direct Control for iPod/iPhone



Main Features *(Blue text: upgraded features from MVH-AV185)*

- 6.2" WVGA Clear Type Resistive Touch Panel Display with LED Backlight
- Multi-Language Display* (Menu/ID3 Tag)
- Direct Control for iPod/iPhone (USB)
- **Built-in Bluetooth Wireless Technology (Hands-Free Calling/Wireless Audio)**
- USB Port (Rear: High Current 1A Handling Capability)
- AUX Input (Audio/Video)
- DivX/MPEG-4/MP3/WMA/iTunes AAC/WAV Playback from USB Device
- MOSFET 50 W x 4
- RCA Preouts x 2 (2 V)
- 5-Band Graphic EQ
- JPEG Slide Show
- Back-Up Camera Ready
- Wired Remote Input
- Display Off Mode
- RDS

* See page 19 for more details.

See page 97 for accessories, and 100 for iPod/iPhone Compatibility.

6.2W **MP3 WMA AAC DIVX** **Bluetooth**
RDS **MOSFET 50Wx4**

AV RECEIVERS

AVH-3850DVD

In-Dash 1-DIN DVD Multimedia AV Receiver with 7" WVGA Touchscreen Display, and Front USB Port



Main Features

- 7" WVGA Touch Panel Display with LED Backlight
- Multi-Language Display (Menu/ID3 Tag) (English/Spanish/Portuguese/Russian)
- USB Port (Front)
- Front AUX Input (Audio/Video)
- DVD/CD Player with DVD Video Playback
- DivX®/MPEG-1, -2, -4/MP3/WMA/iTunes AAC/WAV Playback from USB Device
- DivX/MPEG-1, -2, -4/MP3/WMA/iTunes AAC Playback from CD/DVD
- MOSFET 50 W x 4
- RCA Preouts x 3 (2 V)
- 3-Band Graphic EQ (Bass/Mid/Treble)
- Back-Up Camera Ready
- Rotary Volume Control
- Wired Remote Input
- Display Off Mode

See page 97 for accessories.

7.0W

AVH-195DVD **NEW**

In-Dash Double-DIN DVD Multimedia AV Receiver with 6.2" WVGA Touchscreen Display, and Direct Control for iPod/iPhone



Main Features

- 6.2" WVGA Clear Type Resistive Touch Panel Display with LED Backlight
- Multi-Language Display* (Menu/ID3 Tag)
- Direct Control for iPod/iPhone (USB)
- USB Port (Rear: High Current 1A Handling Capability)
- AUX Input (Audio/Video)
- DVD/CD Player with DVD Video Playback
- DivX/MPEG-4/MP3/WMA/iTunes AAC/WAV Playback from USB Device
- DivX/MPEG-1, -2, -4/MP3/WMA/iTunes AAC/WAV Playback from CD/DVD
- MOSFET 50 W x 4
- RCA Preouts x 2 (2 V)
- 5-Band Graphic EQ
- JPEG Slide Show
- Back-Up Camera Ready
- Wired Remote Input
- Display Off Mode
- RDS

* See page 19 for more details. See page 97 for accessories, and 100 for iPod/iPhone Compatibility.

RC/RI: Remote control unit included. RD: Remote control unit is optional.

6.2W

Made for

MVH-AV185

In-Dash Double-DIN Digital Media AV Receiver with 6.2" WVGA Touchscreen Display, and Direct Control for iPod/iPhone



Main Features

- 6.2" WVGA Clear Type Resistive Touch Panel Display with LED Backlight
- Multi-Language Display* (Menu/ID3 Tag)
- Direct Control for iPod/iPhone (USB)
- USB Port (Rear: High Current 1A Handling Capability)
- AUX Input (Audio/Video)
- DivX/MPEG-4/MP3/WMA/iTunes AAC/WAV Playback from USB Device
- MOSFET 50 W x 4
- RCA Preouts x 2 (2 V)
- 5-Band Graphic EQ
- JPEG Slide Show
- Back-Up Camera Ready
- Wired Remote Input
- Display Off Mode
- RDS

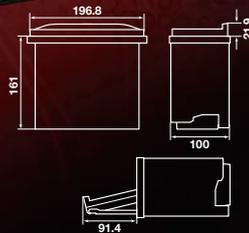
* See page 19 for more details. See page 97 for accessories, and 100 for iPod/iPhone Compatibility.

6.2W

Made for

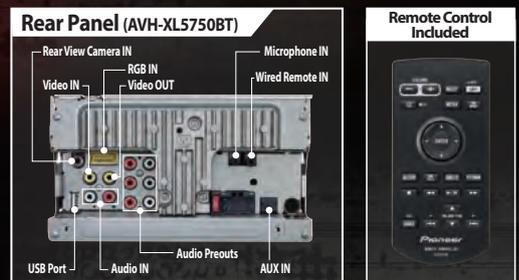
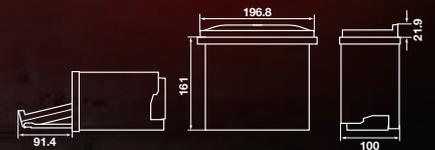
AVH-XL5750BT

In-Dash Double-DIN DVD Multimedia AV Receiver with 7" WVGA Touchscreen Display, MIXTRAX, Built-in Bluetooth®, and Direct Control for iPod/iPhone and Certain Android Phones



AVH-XL4750DVD

In-Dash Double-DIN DVD Multimedia AV Receiver with 7" WVGA Touchscreen Display, MIXTRAX, and Direct Control for iPod/iPhone and Certain Android Phones



Note: "Bluetooth Wireless Technology" and "Siri Eyes Free" for AVH-XL5750BT.

Key Selling Points

Point 1

200 mm-wide Double-DIN front panel is designed to fit perfectly in the the car interior's center console.

Point 2

Pages 14-15

Experience the exclusive in smartphone connectivity with AppRadio Mode USB by simple cable connection.



Point 3

Page 18

Enjoy superior in-car AV performance with 13-Band Graphic EQ, FLAC codec playback* and other high quality functions.

* For the files stored in USB thumb drive.



Common Main Features (Blue text: upgraded features from AVH-X4850DVD)

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- 7" WVGA Touch Panel Display with LED Backlight
- Multi-Language Display* (Menu/ID3 Tag)
- Color Customization (5-Display Colors and 112-Key Colors)
- AppRadio Mode USB for iPod/iPhone & Certain Android Phones
- App Mode
- Built-in MirrorLink™
- USB Port (Rear: High Current 1A Handling Capability)
- AUX Input (Audio/Video)
- RGB Input
- DVD/CD Player with DVD Video Playback
- DivX®/MPEG-4/MP3/WMA/iTunes AAC/WAV Playback from USB Device
- H.264 Playback from USB Device
- DivX/MPEG-1, -2, -4/MP3/WMA/iTunes AAC Playback from CD/DVD

- Advanced Sound Retriever
- MOSFET 50 W x 4
- Hi-Volt RCA Preouts x 3 (4V)
- 13-Band Graphic EQ
- Auto EQ & Auto Time Alignment (CD-MC20 Required)

- Pioneer TV Tuner Ready
- JPEG Slide Show
- Back-Up Camera Ready
- Wired Remote Input
- Display Off Mode
- RDS

AVH-XL5750BT Main Features

- Direct Control for iPod/iPhone (USB/Bluetooth)
- Direct Control for Certain Android Phones (USB/Bluetooth)
- Built-in Bluetooth Wireless Technology (Hands-Free Calling/Wireless Audio)
- Siri Eyes Free
- SR Air

AVH-XL4750DVD Main Features

- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)

* See page 19 for more details. See page 97 for accessories.

iPod/iPhone Compatibility

Made for
iPhone 6 Plus, iPhone 6 (AppRadio Mode USB Compatible)
iPhone 5s, iPhone 5c, iPhone 5 (AppRadio Mode USB Compatible)
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, and 5th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 100 for more details.

CONNECTIVITY

AppRadio Mode



AVH-X8850BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD AVH-XL5750BT AVH-XL4750DVD



A Revolutionary Way to Use Apps in the Car

AppRadio Mode* revolutionizes the driver's smartphone experience by bringing compatible iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5 or Android** apps to your dash.

* App Radio Mode: Compatible with AVH-X8850BT. See page 97 for accessories, and 100 for iPod/iPhone and Android compatibility.

AppRadio Mode USB (not for iPod touch): Compatible with AVH-X5850BT, AVH-X4850DVD, AVH-X2850BT, AVH-X1850DVD, AVH-X7850BT, AVH-X6850DVD, AVH-XL5750BT and AVH-XL4750DVD.

** Not all Android phones are compatible.



How to Use AppRadio Mode

AppRadio Mode (iPhone connectivity example shown)



Install the AppRadio app and other 3rd party apps to your iPhone.

After launching the app, connect your iPhone to the receiver using the AppRadio Mode compatible cable. Pressing the "MODE" button lets you change to the AppRadio Mode's Home display screen.

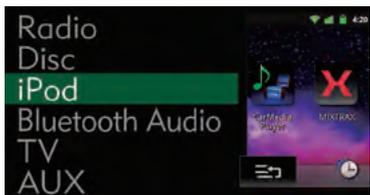
Through the display of the AV receiver, you can fully control apps compatible with AppRadio Mode.

Side Control Bar

AVH-X8850BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD AVH-XL5750BT AVH-XL4750DVD

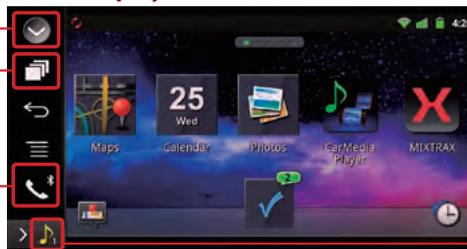
Press the Home button of the AVH-X8850BT twice, and the Side Control Bar goes on display for easy access to the Phone Menu and other Sources. With other AV receivers, press the DISP button to display the Side Control Bar.

Source List



Launcher App

Home Display for Android Connection



Current AV Source or App

Bluetooth® Hands-Free Display



AppRadio Mode USB

With connection simplified, worries about selecting the appropriate cable and the corresponding clutter of cables around the center console disappear.

AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD
AVH-XL5750BT AVH-XL4750DVD

iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c and iPhone 5

AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD
AVH-XL5750BT AVH-XL4750DVD

Android*

* Not all Android phones are compatible.

Easy Connection

CONNECTIVITY

AppRadioLIVE



AppRadioLIVE App, which is one of the apps that is compatible with AppRadio Mode, gives you access to all elements of your digital lifestyle in one place. Connect your compatible smartphone to a receiver with AppRadio Mode to listen to your favorite music, check the weather, find nearby events and more. AppRadioLIVE delivers fresh content from many popular apps without the need to search and open them individually.

MAPS
AppRadioLIVE uses the native maps from your smartphone overlaid with INRIX® live traffic data to provide live traffic and incident information to give you an estimated time of arrival at your chosen destination.



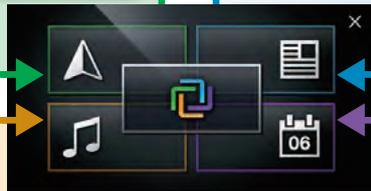
EVENTS
Pioneer keeps you up-to-date on the latest news stories, RSS feeds and weather information with Feedly® and Open Weather Map.



MEDIA
By putting your favorite music and media in one place, AppRadioLIVE simplifies your drive.



CALENDAR
AppRadioLIVE keeps your life organized and makes it easier to stay in touch and have fun.

Note: Apps compatible with AppRadioLIVE may differ according to region.

Spotify®



- AVH-X5850BT
- AVH-X4850DVD*
- AVH-X2850BT
- AVH-X1850DVD*
- AVH-X7850BT
- AVH-X6850DVD*

Spotify® gives you instant access to millions of songs. With support for Spotify®, you can control the Spotify® app on your smartphone via your car receiver's touchscreen.

* Compatible with iPhone only.



Built-in Bluetooth®



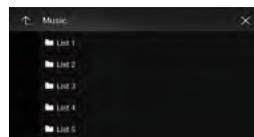
- AVH-X8850BT
- AVH-X5850BT
- AVH-X2850BT
- AVH-295BT
- AVH-X7850BT
- AVH-4850BT
- AVH-XL5750BT
- MVH-AV285BT

AVRCP Version 1.5

- AVH-X5850BT
- AVH-X2850BT
- AVH-295BT
- AVH-X7850BT
- AVH-4850BT
- MVH-AV285BT

File Browsing can be used through AVRCP 1.5 version of Bluetooth. You can easily search songs in the browsing display.

Note: AVH-X8850BT and AVH-XL5750BT—AVRCP Version 1.4



HFP Version 1.6

- AVH-X8850BT
- AVH-X5850BT
- AVH-X2850BT
- AVH-X7850BT
- AVH-4850BT
- AVH-XL5750BT
- MVH-AV285BT

You can talk with much clearer voice via spread twice band width.



Siri* Eyes Free Compatible

- AVH-X8850BT
- AVH-X5850BT
- AVH-X2850BT
- AVH-X7850BT
- AVH-XL5750BT

Smart voice control lets users access various iPhone functions to select music, make calls from a contact list, etc., without taking their eyes off the road.

* Siri is available on iPhone 4s or later, iPad with Retina display, iPad mini, and iPod touch (5th generation) and requires Internet access. Siri may not be available in all languages or in all areas, and features may vary by area. Cellular data charges may apply. Some features may not be available for all countries or all areas.



Two-Phone Full Time Connection

- AVH-X5850BT
- AVH-X2850BT
- AVH-X7850BT

You can connect two mobile phones (for personal and business use, for example) with the receiver, and an incoming call from either phone can be received without requiring manual switching.



Built-in MirrorLink™



- AVH-XL5750BT
- AVH-XL4750DVD

Use an interface cable to connect the receiver and a compatible MirrorLink™ certified smartphone. Then, you can directly control and access music, maps, and contacts stored on the smartphone via the receiver's touchscreen.



CD-MU200

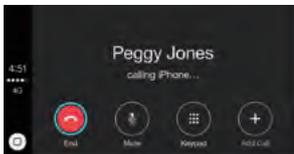
USB Interface Cable for AppRadio Mode USB, Android Use with Android Auto™ and MirrorLink™ Devices (USB-USB Cable: 1.5 m/USB-microUSB Cable: 50 cm)



CONNECTIVITY

Apple CarPlay*

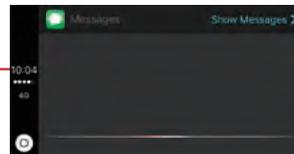
AVH-X8850BT



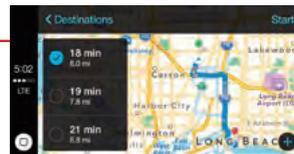
With the directly connected phone, information like favorites, recent calls, contact list are available on the receiver's screen by just touching the icon and Siri will help you.



You can enjoy music from iTunes Radio or music stored on your phone such as Genius Playlist, standard Playlist or Artists.



Create, listen to and reply to your messages to desired contact by using Siri.



Just tell Siri where you want to go or you can find destinations with a list of previous search histories, or addresses sent to you in text messages and emails.

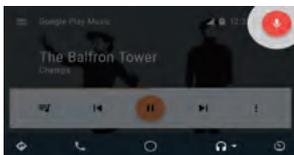
Apple CarPlay is the safer, smarter and more fun way to use your iPhone in the car. It launches automatically by just plugging in.

*Apple CarPlay is available on Apple iPhone 5 or later with iOS 7.1.2 or higher, and requires Lightning to USB cable.

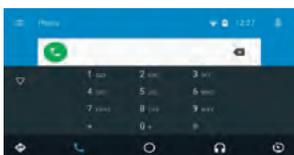
Android Auto™*

AVH-X8850BT

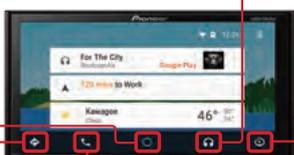
Android Auto extends the Android platform into the car in a way that's purpose-built for driving.



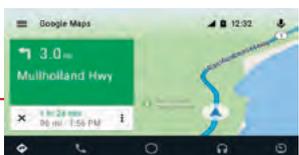
Just say the word—best-in-class speech technology makes controlling everything with your voice fast and easy.



Phone calls can be made easily, directly from the receiver, showing all contacts and call lists stored on the phone.



Android Auto automatically brings you useful information, and organizes it into simple cards that appear just when they're needed.

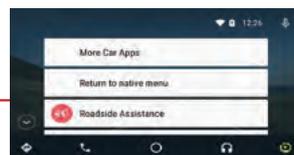


Let Google Maps lead the way. It's easy to get where you're going with free voice-guided navigation, live traffic information, lane guidance, and more.



Your favorite tunes—to go. Access and stream your favorite music with apps like Google Play Music, Spotify® and more*.

*Available apps depend on regions and countries.



Hit the road with your favorite apps. Android Auto makes it easy to access your favorite apps and content in the car.

*Android Auto is available with Android phone running Android 5.0 (Lollipop) or higher with a data plan. Note: Availability of Android Auto may vary depending upon your country and phone model.

Learning Steering Wheel Control

All Receivers

You can now assign certain functions of the receiver to control buttons on the steering wheel.



Dual USB Ports

AVH-X8850BT

More connectivity adds more convenience and utility. For example, you can listen to music from a USB device while charging your smartphone.



USB Quick Charge for Android (CDP) NEW

- AVH-X5850BT
- AVH-X4850DVD
- AVH-X2850BT
- AVH-X1850DVD
- AVH-X7850BT
- AVH-X6850DVD



Pioneer's AV receiver has a charging downstream port (CDP) providing up to 1.5 amperes to give an Android smartphone a quick charge.



Direct Control for Certain Android Phones (MTP Mode)

- AVH-X5850BT
- AVH-X4850DVD
- AVH-X2850BT
- AVH-X1850DVD
- AVH-X7850BT
- AVH-X6850DVD
- AVH-XL5750BT
- AVH-XL4750DVD



Take advantage of a wired USB connection to the receiver. Sound stays clean and clear, file search and access are very quick, and song, artist, time and album displays are user-friendly.

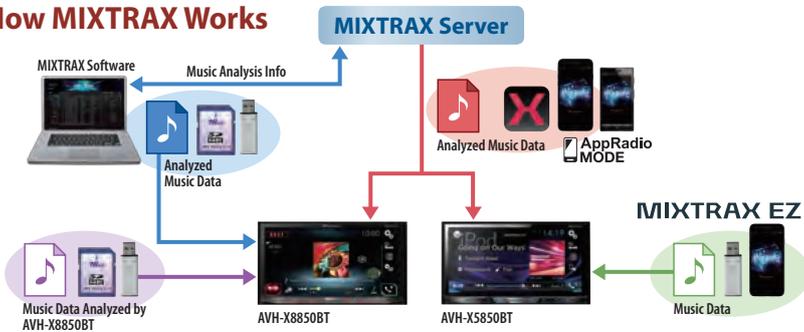
AUDIO

MIXTRAX

MIXTRAX

Innovative Pioneer technology that creates a Non-Stop MIX with a range of DJ-inspired effects.

How MIXTRAX Works



MIXTRAX, MIXTRAX App, and MIXTRAX EZ Comparison

	Advantage	MIXTRAX Software	Compatible Source
MIXTRAX	Full-featured Non-Stop Mix Play*1	Compatible	USB Device SD Memory Card
MIXTRAX App	Quick and Easy, Non-Stop Mix Play	*2	iPhone, iPod touch Android Phone
MIXTRAX EZ	Quick and Easy, Non-Stop Mix Play	—	USB Device iPod, iPhone

*1. Requires music analysis by MIXTRAX Software from Pioneer (free download).
*2. Creates playlists using data from the MIXTRAX cloud server.

MIXTRAX

AVH-X8850BT

AV Receiver Analysis

The AVH-X8850BT is able to analyze the music, so you can enjoy Non-Stop MIX Play simply by connecting a USB Device or SD Memory Card containing music that has not been analyzed.

PC Analysis

You can analyze music on a PC, then put the analyzed music data on USB Device or SD Memory Card. The AVH-X8850BT allows you to listen it with MIXTRAX function.

MIXTRAX App

AVH-X8850BT

You can use an iPhone, iPod touch or Android on which the MIXTRAX app is installed, to access analyzed music data on the MIXTRAX server. Then, you can enjoy music with MIXTRAX function via AppRadio Mode.

MIXTRAX EZ

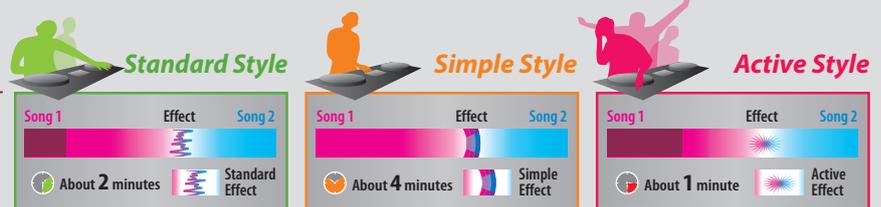
- AVH-X5850BT
- AVH-X4850DVD
- AVH-X2850BT
- AVH-X1850DVD
- AVH-X7850BT
- AVH-X6850DVD
- AVH-XL5750BT
- AVH-XL4750DVD

Experience your music as a simple quick non-stop mix. Tracks are joined by various random sound effects and you can experience the intimate euphoria of listening to music that sounds as if a club DJ is there playing it.

MIXTRAX

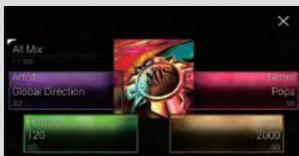
MIX Style

Select among three mixing styles of different track time durations and effects in preset three steps.



Link Gate

Automatically create a new MIX playlist based on the Artist, Genre, Tempo, or Year of the currently playing song. Now it's even easier to enjoy a Non-Stop MIX that matches your taste.



Display Visualizer

The Display Visualizer provides for cool ambient visuals that enhance the in-car mood. Three shining spheres change their speed and movement based on the music in your Non-Stop MIX.



BPM Slider Bar

Change the beats per minute (BPM) of the currently playing music by sliding up or down along the bar.



MIXTRAX EZ

Short Playback Mode

You can choose a length of playback (60, 90, 120, 150, 180 sec., random, or off) to shorten track selections and speed up switching to following tracks in the mix.

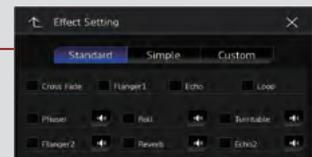
60", 90", 120", 150", 180", Random, Off



* Orange portions indicate playback of each track.

Selectable Sound Effect

Select the desired special sound effects using the setting menu.



Display Visualizer

Enjoy club illumination-style visual effects that match set background colors.

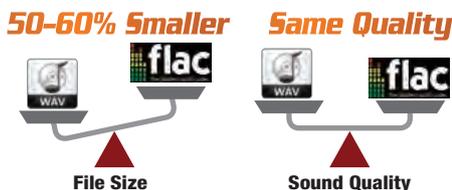


AUDIO

Support FLAC Codec*

AVH-X8850BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD

New Pioneer AV receiver supports dramatically superior car audio experiences with amazingly brilliant reproduction of sound by FLAC (Free Lossless Audio Codec) files that are 50–60% smaller than WAV files, yet retain the integrity of original sound sources. Characterized by 48 kHz sampling frequency and 24-bit bitrate, the sound quality of FLAC file playback exceeds even that of CD playback.



* For the files stored in USB thumb drive.



High-Grade Audio Parts

AVH-X5850BT AVH-X4850DVD AVH-X2850BT
AVH-X1850DVD AVH-X7850BT AVH-X6850DVD

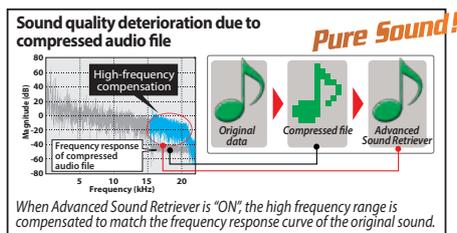
Pioneer's new audio capacitors for AV receivers clearly detail and localize sound characteristics and clean up extraneous noise, for more lasting listening pleasure.

**Superior Sound Clarity,
Precision & Detail!**

Advanced Sound Retriever

AVH-X8850BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD
AVH-XL5750BT AVH-XL4750DVD

Hear more detail, warmth and clarity that the artist originally wanted you to hear from MP3, WMA and AAC files stored on your CD, USB Device, SD/SDHC Memory Card, iPod/iPhone, Android phone and portable media players. Pioneer's Advanced Sound Retriever technology benefits audio reproduction performance by enhancing data (especially high-frequency data) that tends to get lost in the digital compression process.



SR Air*

SR Air also improves the sound of Bluetooth® wireless audio streams.

* Compatible with AVH-X8850BT, AVH-X5850BT, AVH-X2850BT, AVH-X7850BT and AVH-XL5750BT.

Specialized Audio Parts



AVH-X8850BT

The AVH-X8850BT features specialized audio components such as a DSP and high-tolerance acoustic capacitors in order to reinforce Pioneer's dedication to high quality audio.



DSP

Acoustic Capacitor

13-Band Graphic EQ

AVH-X8850BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD
AVH-X7850BT AVH-X6850DVD AVH-XL5750BT AVH-XL4750DVD

With the unique Advanced Touch Slide Operation, you simply drag your finger across the screen to change the EQ curve and audio characteristics. 13-band EQ adjustment allows you to fine-tune sound quality just as you like it.



Touch Slide Crossover Setting

AVH-X8850BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD
AVH-X7850BT AVH-X6850DVD AVH-XL5750BT AVH-XL4750DVD

It's intuitively easy to operate and set system tuning by dragging and tapping your finger.

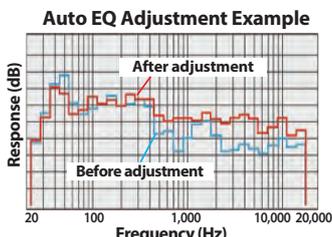


Auto EQ*



AVH-X8850BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD
AVH-X7850BT AVH-X6850DVD AVH-XL5750BT AVH-XL4750DVD

It can be difficult to reproduce music accurately in a vehicle due to factory speaker locations and interior materials. These limitations can lead to sound phase distortion, as well as sound reflection against glass and absorption by the dashboard and seats. Auto EQ uses a microphone to monitor and analyze the vehicle acoustics, then automatically fine-tunes all frequencies and also applies digital parametric equalization to the front and rear speakers—producing a smoother sounding musical experience.



After adjustment:
Smooth response with subtle nuances reproduced clearly.

Before adjustment:
Rough frequency response curve; unclear overall sound.

CD-MC20
Microphone for Auto EQ and Auto Time Alignment
Frequency Band Fine-Tuning

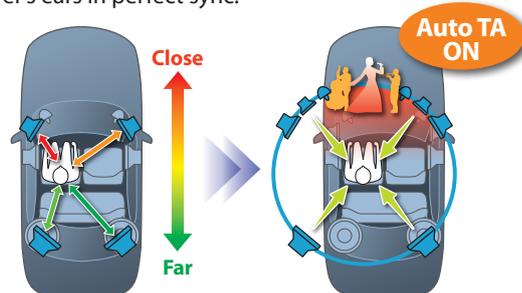


* CD-MC20 required

Auto Time Alignment*

AVH-X8850BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD
AVH-X7850BT AVH-X6850DVD AVH-XL5750BT AVH-XL4750DVD

Time Alignment automatically estimates the delay from each speaker to driver's position and adjusts speaker output timing, so that sound from all speakers reaches the driver's ears in perfect sync.



The different distances from each speaker to the driver cause the delay of sound.

Auto TA makes all speakers sound as if they are virtually equidistant from the driver.

USER INTERFACE & OTHERS

Advanced User Interface

AVH-X8850BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD AVH-XL5750BT AVH-XL4750DVD

More advanced than ever before, the Multimedia AV receiver features a responsive, powerful and intuitive touchscreen user interface that is easy to use and highly customizable.

Seamless Access

Home Menu Display

Just tap the icon on the Home Menu for quick access to the currently playing source, Bluetooth® or AppRadio Mode.



AVH-X5850BT Display

Quick and Easy Operation

Song List

AVH-X8850BT

Operation is intuitive, as with a smartphone, using such touch gestures as a flick to quickly scroll a list.



AVH-X8850BT Display

Advanced Customization

Source Menu Display

Simply drag and drop to change and customize Source Menu order.



AVH-X5850BT Display

Color Customization



AVH-X8850BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT
AVH-X1850DVD AVH-X7850BT AVH-X6850DVD AVH-XL5750BT AVH-XL4750DVD

Select among five (Blue/Red/Amber/Green/White) colors for the display and 112 different colors to match unit illumination to the dash.



Brilliant!

Detachable Face Security™



AVH-X8850BT AVH-X7850BT AVH-X6850DVD

The extra-thin face panel* of the AVH-X8850BT is easy to remove and carry out of the car to deter theft.



* Carrying case is included in the box.

Pioneer TV Tuner Accessory



AVH-X8850BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT
AVH-X1850DVD AVH-X7850BT AVH-X6850DVD AVH-XL5750BT AVH-XL4750DVD

GEX-2850DVB2, GEX-1750DVB2, GEX-1750DVB and GEX-1550TV TV tuner can be operated via receiver touch panel displays.



- GEX-2850DVB2***
Dual Diversity DVB-T2 TV Receiver
- GEX-1750DVB2***
HD DVB-T2 Digital TV Receiver
- GEX-1750DVB***
HD DVB-T Digital TV Receiver
* Not compatible with RD models.
- GEX-1550TV**
Analog TV Tuner
• Compatible broadcasting systems: PAL/SECAM/NTSC

Note: Each TV Tuner is compatible with the broadcasting system of the country in which the respective product is sold.

Clear Type Resistive Touch Panel

All Receivers (Except AVH-XL5750BT, AVH-XL4750DVD, AVH-4850BT and AVH-3850DVD)

The new Pioneer AV receivers' display panel are designed as beautifully crisp and it brings you enhanced visibility.

Power Off Mode

AVH-X8850BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD

Now you can turn off the AV receivers' screen separately in right order, not by compelling with turning off vehicles engine.

Steering Wheel Control Function Expansion

AVH-X8850BT AVH-X5850BT AVH-X4850DVD AVH-X2850BT AVH-X1850DVD AVH-X7850BT AVH-X6850DVD

More usefulness are brought, you can receive call by pushing right or left button and use voice recognition function by long-pushing the mute button.

Dual Zone Audio/Video



AVH-X8850BT

Pioneer's AVH-X8850BT allows rear seat passenger to enjoy audio or video content on additional rear seat monitors and headphones, even while the front passenger and driver listen to audio from other sources.



Multi-Language Display

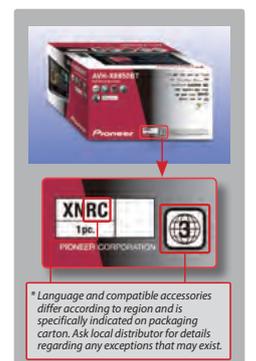


All Receivers

New Pioneer Multimedia AV receiver features Multi-Language Display of Menu and ID3 tag text.

Asia	English/Thai/Chinese (Simplified)/Chinese (Traditional)/Bahasa Indonesia	RC*
Central America/Latin America/Oceania	English/French**/Spanish/Portuguese/Chinese (Traditional)** <small>** AVH-X8850BT only</small>	RD*
Middle East Asia	English/French/Portuguese/German/Dutch/Russian/Arabic/Persian/Hebrew	RI*

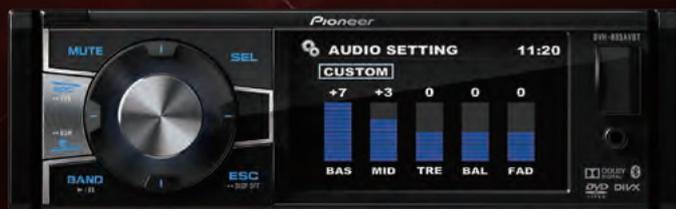
Note: AVH-4850BT/AVH-3850DVD—English/Spanish/Portuguese/Russian



* Language and compatible accessories differ according to region and is specifically indicated on packaging carton. Ask local distributor for details regarding any exceptions that may exist.

DVH-885AVBT

DVD Receiver with 3.5" Color TFT Display, Built-in Bluetooth®, and Direct Control for iPod/iPhone and Certain Android Phones



DVH-785AV

DVD Receiver with 3" Color TFT Display, Front USB Port, and Front AUX-In



3.5W/3.0W*1 LED MULTI-LANGUAGE DISPLAY DVD VIDEO DVD-R, DVD-RW MP3 WMA AAC DIVX DOLBY DIGITAL USB AUX IN 2 RCA PREOUTS Hi-VOLT 24bit DAC Converter MOSFET 50Wx4 Back Up Camera Ready

Bluetooth Smartphone Compatible

Made for iPod iPhone

Note: *Control for Android Phones with CarMediaPlayer App; †Bluetooth Wireless Technology; ‡iTunes AAC Playback; and †Hi-Volt Preout† for DVH-885AVBT *1. 3.0-inch display: DVH-785AV

Key Selling Points

Point 1 Pioneer audio receivers are compatible with certain Android phones and iPod/iPhone*. (DVH-885AVBT) *Compatible only with music files from iPod/iPhone.
Point 2 Bluetooth Wireless Technology enables hands-free calling. Enjoy wireless audio control and streaming. (DVH-885AVBT)

Made for iPod iPhone

Smartphone Compatible Bluetooth

Point 2 Large built-in 3.5" (DVH-885AVBT) and 3" (DVH-785AV) color TFT displays provide excellent visibility and operability.

3.5W/3.0W

Point 3 In-car playback of DivX highly compressed digital video files from DVD and USB device.

DIVX DVD VIDEO USB

Common Main Features (Blue text: upgraded features from DVH-345UB)

- Multi-Language Display (Menu/ID3 Tag)
- USB Port (Front)
- Front AUX Input (Audio/Video)
- DVD/CD Player with DVD Video Playback
- MOSFET 50 W x 4
- 3-Band Equalizer (Bass/Mid/Treble)
- JPEG Slide Show
- Back-Up Camera Ready
- Rotary Volume Control
- Detachable Face Security™
- Wired Remote Input
- Display Off Mode

See page 97 for accessories.

DVH-885AVBT Main Features (Blue text: upgraded features from DVH-785AV)

- 3.5" Color TFT Display with LED Backlight
- Dual Color (Red/Blue)
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (Bluetooth)
- Control for Android Phones with CarMediaPlayer App
- Built-in Bluetooth Wireless Technology (Hands-Free Calling/Wireless Audio)
- DivX*/MPEG-1, -2, -4/MP3/WMA/iTunes AAC Playback from USB Device
- DivX/MPEG-1, -2, -4/MP3/WMA/iTunes AAC Playback from CD/DVD
- Hi-Volt RCA Preouts x 2 (4 V)

DVH-785AV Main Features (Blue text: upgraded features from DVH-345UB)

- 3" Color TFT Display with LED Backlight
- DivX/MPEG-1, -2, -4/MP3/WMA Playback from USB Device
- DivX/MPEG-1, -2, -4/MP3/WMA Playback from CD/DVD
- RCA Preouts x 2 (2 V)

iPod/iPhone Compatibility

Made for
iPhone 6 Plus, iPhone 6
iPhone 5s, iPhone 5c, iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPod touch (3rd, 4th, and 5th generation)
iPod classic
iPod nano (4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 100 for more details.

Point 1

USB Direct Control* for iPod/iPhone

DVH-885AVBT

Gain freedom of car entertainment operation by connecting an iPod/iPhone to the DVH-885AVBT. The 3.5" TFT display of this 1-DIN DVD receiver can also be used as an iPod/iPhone interface more easily than that of a 1-DIN single CD player can be used.

*Compatible only with music files from iPod/iPhone.



Convenient, Easy Bluetooth® Wireless Functions

DVH-885AVBT

- Hands-free calling (HFP) for safe driving
- Wireless Audio Streaming/Control (A2DP)
- File Browsing can be used through AVRCP 1.4 version of Bluetooth. You can easily search songs in the browsing display.



Control for Android Phones with CarMediaPlayer App

DVH-885AVBT

Extend your choices in car entertainment by connecting a compatible Android phone to the audio receiver to control CarMediaPlayer.



Smartphone Compatible

Point 2

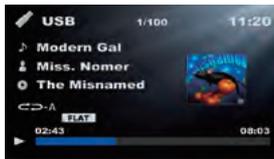
Large Full Color TFT Display

- The DVH-885AVBT and DVH-785AV include a built-in full color TFT display with excellent visibility and comfortable functionality operable with a range of information.
- Having a display built into the front panel makes it easy to enjoy video.

3.5W/3.0W



Audio Setting



USB Playback

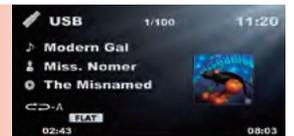


Video Playback

3.5" Large Display (DVH-885AVBT)



3-inch display



3.5-inch display

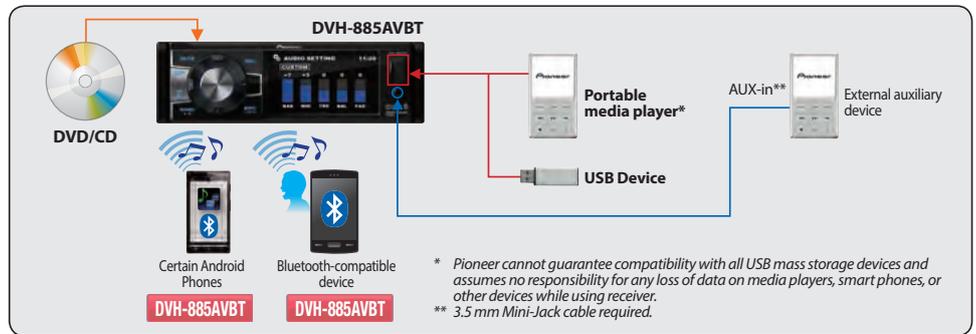


Point 3

Versatile Multimedia Playback and Connectivity

The DVH-885AVBT is compatible with DivX and MP4 video file playback from DVD/CD and USB devices. Also, this receiver can play AAC audio files (encoded by iTunes) from DVD/CD and USB devices.

AAC DIVX™



DVH-345UB

DVD Receiver with Front USB Port, and Front AUX-In



* Rear panel configuration may vary depending on area.



Main Features

- LCD Display with LED Backlight (10-Character)
- USB Port (Front)
- Front AUX Input (Audio)
- DVD/CD Player with DVD Video Playback
- DivX®/MPEG-1, -2, -4/MP3/WMA/iTunes AAC/WAV Playback from USB Device

- DivX/MPEG-1, -2, -4/MP3/WMA/iTunes AAC Playback from CD/DVD
- Advanced Sound Retriever
- MOSFET 50 W x 4
- RCA Preouts x 2 (2 V)
- 3-Band Equalizer (Bass/Mid/Treble)

- Rotary Volume Control
- Detachable Face Security™
- Wired Remote Input
- RDS

See page 97 for accessories.

AUDIO RECEIVERS



KEY FEATURES STEP-UP COMPARISON CHART

	Display	Preout	CD Player	Audio Format	AUX Input (Mini-Jack)	USB Interface ¹¹	Direct Control for iPod/iPhone ²	Direct Control for Certain Android Phones ²	Pioneer ARC	Spotify ⁹	SD/SDHC Memory Card Slot	Bluetooth ¹⁰	MIXTRAX ³ Flashing Color	Music Browser	Color Customization	USB Quick Charge for Android (CDP)	Advanced Sound Retriever	Page Number
DEX-P99RS	Full Dot OEL 3-Line	4 (5 V)		MP3 WMA AAC WAV	Front	Rear	USB					With CD-BT200						24
DEH-80PRS	Full Dot LCD 3-Line	3 (5 V)		MP3 WMA AAC WAV	Front	Rear x 2	USB											26
DEH-9450UB	Full Dot LCD 3-Line	3 (4 V)		MP3 WMA AAC WAV	Rear	Rear x 2	USB											29
DEH-X9650BT	Full Dot LCD 3-Line	3 (4 V)		MP3 WMA AAC WAV	Front	Rear x 2	USB	USB				HFP A2DP AVRCP SPP						30
DEH-X9650SD	Full Dot LCD 3-Line	3 (4 V)		MP3 WMA AAC WAV	Front	Rear x 2	USB	USB										30
DEH-X8750BT	Full Dot LCD 3-Line	3 (4 V)		MP3 WMA AAC WAV FLAC ⁹	Rear	Rear	USB	USB				HFP A2DP AVRCP SPP						31
DEH-X7850BT	Wider LCD 2-Line (13 x 1) + Sub	GS: 3 (4 V) CS: 3		MP3 WMA AAC WAV FLAC ⁹	Front	Front ¹⁰ Rear	USB Bluetooth	USB				HFP A2DP AVRCP SPP						32
DEH-X7750UI	Full Dot LCD 3-Line	3 (4 V)		MP3 WMA AAC WAV FLAC ⁹	Rear	Rear	USB	USB										31
DEH-X6850BT	Wider VA LCD 2-Line (13 x 1) + Sub	2		MP3 WMA AAC WAV	Front	Front ¹⁰	USB	USB				HFP A2DP AVRCP SPP						33
DEH-X4950BT	Wider VA LCD (13 x 1)	2		MP3 WMA AAC WAV	Front	Front ¹⁰	USB	USB				HFP A2DP AVRCP SPP						34
DEH-X4850FD	Wider VA LCD (13 x 1)	2		MP3 WMA WAV	Front	Front ¹⁰	USB	USB										36
DEH-X3950BT	Wider VA LCD (13 x 1)	2		MP3 WMA AAC WAV	Front	Front ¹⁰	USB	USB				HFP A2DP AVRCP SPP						35
DEH-X2950UI	Wider VA LCD (13 x 1)	2		MP3 WMA WAV	Front	Front ¹⁰	USB	USB										34
DEH-X1953UB	Wider VA LCD (13 x 1)	3		MP3 WMA WAV	Front	Front ¹⁰		USB										35
DEH-X1952UB	Wider VA LCD (13 x 1)	2		MP3 WMA WAV	Front	Front ¹⁰		USB										35
DEH-X1950UB DEH-X1950UBG	Wider VA LCD (13 x 1)	1		MP3 WMA WAV	Front	Front ¹⁰		USB										35
DEH-X5	Wider VA LCD (13 x 1)	2		MP3 WMA AAC WAV	Front	Front ¹⁰	USB	USB				HFP A2DP AVRCP SPP						37
DEH-X1	Wider VA LCD (13 x 1)	2		MP3 WMA WAV	Front	Front ¹⁰	USB	USB										37



	Display	Preout	CD Player	Audio Format	AUX Input (Mini-Jack)	USB Interface ¹⁰	Direct Control for iPod/iPhone ²	Direct Control for Certain Android Phones ³	Pioneer ARC	Spotify ⁴	SD/SDHC Memory Card Slot	Bluetooth ⁵	MIXTRAX ⁵ Flashing Color	Music Browser	Color Customization	USB Quick Charge for Android (CQP)	Advanced Sound Retriever	Page Number
DEH-155MP DEH-155MPG	LCD (12 x 1)	1		MP3 WMA WAV	Front													51
FH-X785BT	Wider LCD 2-Line (13x1)x1+Sub	3		MP3 WMA AAC WAV FLAC ⁹	Front	Front ¹⁰	USB Bluetooth	USB				HFP A2DP AVRCP SPP					38	
FH-X575UI	VA LCD 2-Line (13x1+Sub)	2		MP3 WMA WAV	Front	Front ¹⁰	USB	USB									39	
FH-X385UB	Wider VA LCD 2-Line (13 x 1)	2		MP3 WMA WAV	Front	Front ¹⁰		USB										39
MVH-X585BT	Wider LCD 2-Line (13+1)x1+Sub	3 (4 V)		MP3 WMA AAC WAV FLAC ⁹	Front	Front ¹⁰ Rear	USB Bluetooth	USB				HFP A2DP AVRCP SPP					40	
MVH-X395BT	Wider VA LCD (13 x 1)	1		MP3 WMA AAC WAV	Front	Front ¹⁰	USB	USB				HFP A2DP AVRCP SPP					41	
MVH-X285FD	Wider VA LCD (13 x 1)	2		MP3 WMA WAV	Front	Front ¹⁰	USB	USB										36
MVH-X195UI	Wider VA LCD (13 x 1)	1		MP3 WMA WAV	Front	Front ¹⁰	USB	USB										41
MVH-85UB	LCD (13 x 1)	1		MP3 WMA WAV FLAC ⁹	Front	Front ¹⁰		USB										41
MVH-X3	Wider VA LCD (13 x 1)	2		MP3 WMA AAC WAV	Front	Front ¹⁰	USB	USB				HFP A2DP AVRCP SPP					37	
DXT-X1969UB DXT-X196UB	Wider VA LCD (13 x 1)	1		MP3 WMA WAV	Front	Front ¹⁰		USB										42
MXT-X396BT	Wider VA LCD (13 x 1)	1		MP3 WMA AAC WAV	Front	Front ¹⁰	USB	USB				HFP A2DP AVRCP SPP					43	

For Flashing Color. For Color Customization.

*1. Pioneer cannot guarantee compatibility with all USB mass storage devices and assumes no responsibility for any loss of data on media players, smart phones, or other devices while using receiver.
 *2. Compatibility with unit depends on iPod generation. Requires use of optional cable.
 *3. Not all Android phones are compatible.
 *4. HFP = Hands-Free Profile, A2DP = Advanced Audio Distribution Profile, AVRCP = Audio/Video Remote Control Profile, SPP = Serial Port Profile. Please refer to instruction manual for other information about profile compatibility.
 *5. Works with music from iPod, SD/SDHC memory card and USB device.
 *6. 125 colors. Key illumination only.
 *7. 210,000 colors (separated). Colors for key illumination and display are separately adjustable.
 *8. Also available for Bluetooth Wireless Audio.
 *9. For the files stored in USB thumb drive.
 *10. Please use CD-US0E USB extension cable if a direct connection causes a USB device to protrude from the receiver in a way that can interfere with driving.

DEX-P99RS

Audio Receiver with Sound Master Clock Circuit, High-Performance DSP, and USB Port with Digital Direct Signal Transmission



MULTI-LANGUAGE DISPLAY
MP3 WMA AAC
4 RCA pre-outs **Hi-VOLT**
Bluetooth® Adapter Ready
USB

24bit DA Converter
DSP
Rotary Commander
AUTO FLAP
WIRELESS REMOTE INPUT
SUPER TUNER III
DETACHABLE FACE SECURITY

Key Selling Points

- Point 1** **Devices and materials carefully selected according to the highest standards to achieve the ultimate in sound quality.**
- Point 2** **L/R Independent 4-Way Crossover, 31-Band L/R Independent EQ and 0.77 cm step Auto Time Alignment help optimize sound field in greater detail.**
- Point 3** **Built-in USB port allows transmission of digital signals from a connected iPod, iPhone or USB Device to DSP for high-quality sound reproduction.**

Main Features *(Blue text: upgraded features from DEH-80PRS)*

- Full Dot OEL Display (192 x 48 Pixels, 3-Line)
- **125-Color Button Illumination**
- Bluetooth® Adapter Ready (CD-BTB200 Required)*
- **USB Direct Control for iPod/iPhone and USB Devices with Digital Direct Signal Transmission (CD-IU51 Required for iPod/iPhone)**
- AUX** Input (Front)
- MP3/WMA/WAV/AAC Playback
- Advanced Sound Retriever
- **Hi-Volt RCA Preouts x 4 (5 V)**
- **Built-in DSP with Dual (L/R) 31-Band GEQ**
- Auto EQ and Auto Time Alignment
- Multi-Language Display (English/Spanish/Portuguese)
- 7-Way Rotary Commander
- **Steering Wheel Remote Control**
- **Sound Master Clock Circuit**
- **High-Performance 32-Bit Floating Point DSP**
- **24-Bit AKM DACs**
- Detachable Face Security™
- Display Off Mode
- **Door Mute**



iPod/iPhone Compatibility	
Made for	iPod/iPhone
	iPhone 4
	iPhone 3GS
	iPhone 3G
	iPhone
	iPod touch (1st, 2nd, 3rd, and 4th generation)
	iPod classic
	iPod with video
	iPod nano (1st, 2nd, 3rd, 4th, 5th, and 6th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 100 for more details.

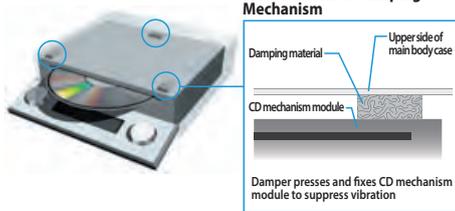
* External control of IP-Bus Bluetooth Adapter has some limitations. Please consult owner's manual or Pioneer sales representative for more information.
** Use a 2.5 mm diameter mini-jack to connect to the AUX input while the Auto-Flap Motorized Face is at open position.

Point 1

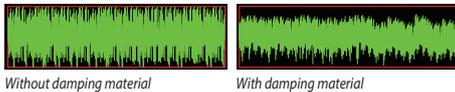
High-Performance Damping Material and Mechanism

To pick up digital signals recorded on CDs with superior precision, new damping mechanism and material firmly press and fix the entire CD mechanism module — effectively absorbing and dispersing vibration caused by CD rotation.

Damping CD Mechanism



Vibration Wave Form of CD Mechanism Module During Playback



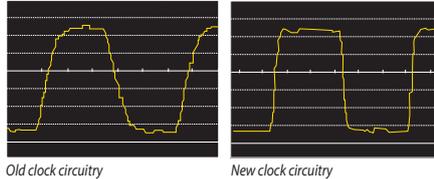
New High-Precision Sound Master Clock Circuitry

The latest integrated circuits require superior clock signal quality to handle digital data accurately without distortion at ever-higher speeds. New Sound Master Clock Circuitry in the DEX-P99RS generates clock waveforms to read and process digital signals with ultra-precision, and eliminate jitter noise in transmission. The result: extraordinarily clear, pure sound.



Sound master clock circuitry

Clock Wave Form Comparison



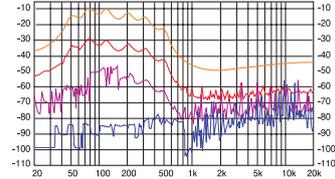
Old clock circuitry

New clock circuitry

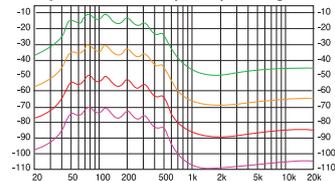
32-Bit Binary Floating-Point DSP

The DEX-P99RS incorporates 32-Bit Binary Floating-Point DSP for high-precision sound processing and tuning without degrading digital signals from their sources.

Example of Calculation by Fixed-Point DSP



Example of Calculation by Binary Floating-Point DSP



Note: DEX-P99RS does not reproduce Dolby® Digital and DTS® digital surround sound.

Point 2

Auto Time Alignment and Auto EQ

Time alignment automatically estimates the delay from each speaker to driver's position and adjusts speaker sound output timing accordingly by 0.77 cm differences, so that sound from all speakers reaches the driver's ears in perfect sync. Auto EQ tailors specific musical characteristics according to taste, uses a microphone to monitor and analyze acoustics, then automatically fine-tunes all frequency bandwidths and front and rear speaker digital parametric equalization. These entire processes occur in 543 seamless steps in just about 5 minutes.

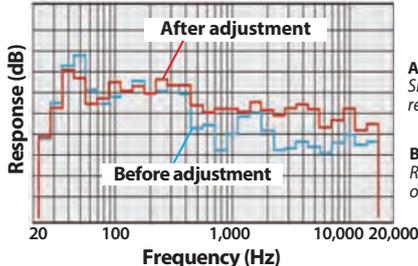


Microphone for Auto EQ frequency band fine-tuning

Microphone jack is under front panel (DEH-P80RSII)

Time Alignment Image Digital delay processing makes all speakers sound as if they are virtually equidistant from the listener, for a clearer, front-focused soundstage.

Auto EQ Adjustment Example



After adjustment: Smooth response with subtle nuances reproduced clearly.

Before adjustment: Rough frequency response curve; unclear overall sound.

For smoother low- to high-range sound.

4-Way Digital Network

To let listeners keep transitions between frequency ranges sounding smooth, the DEX-P99RS features a 4-Way Digital Network that lets you adjust Cutoff Frequency, Cutoff Slope, Level and Phase for any of four (high, mid, low and subwoofer) frequency ranges. Moreover, the adjustments for left and right channels can be made independently of each other. The result: more distinct separation of the four frequency ranges and fuller, more natural sound, with each speaker reaching its full potential as part of a multi-speaker system.



4-Way Digital Network

Network	L/R Independent Network	Cutoff Frequency (Hz)	Cutoff Slope	Level	Phase (Normal/Reverse)
High (HPF)		800/1 k/1.25 k/1.6 k/2 k/2.5 k/3.15 k/4 k/5 k/6.3 k/8 k/10 k/12.5 k/16 k	-6 dB/-12 dB/-18 dB/-24 dB/-30 dB/-36 dB/oct.	0 to -24 dB/ MUTE (1 dB step)	○
Mid (LPF)		25/31.5/40/50/63/80/100/125/160/200/250/315/400/500/630/800/1 k/1.25 k/1.6 k/2 k/2.5 k/3.15 k/4 k/5 k/6.3 k/8 k/10 k/12.5 k/16 k/20 k	PASS, -6 dB/-12 dB/-18 dB/-24 dB/-30 dB/-36 dB/oct.	0 to -24 dB/ MUTE (1 dB step)	○
Mid (HPF)		20/25/31.5/40/50/63/80/100/125/160/200/250/315/400/500/630/800/1 k/1.25 k/1.6 k/2 k/2.5 k/3.15 k/4 k/5 k/6.3 k/8 k/10 k/12.5 k/16 k	PASS, -6 dB/-12 dB/-18 dB/-24 dB/-30 dB/-36 dB/oct.	0 to -24 dB/ MUTE (1 dB step)	○
Low (LPF)		25/31.5/40/50/63/80/100/125/160/200/250/315/400/500/630/800/1 k/1.25 k/1.6 k/2 k/2.5 k/3.15 k/4 k/5 k/6.3 k/8 k/10 k/12.5 k/16 k/20 k	PASS, -6 dB/-12 dB/-18 dB/-24 dB/-30 dB/-36 dB/oct.	+6 to -24 dB/ MUTE (1 dB step)	○
Low (HPF)		20/25/31.5/40/50/63/80/100/125/160/200/250/315/400/500/630/800/1 k/1.25 k/1.6 k/2 k/2.5 k/3.15 k/4 k/5 k/6.3 k/8 k/10 k/12.5 k/16 k	PASS, -6 dB/-12 dB/-18 dB/-24 dB/-30 dB/-36 dB/oct.	+6 to -24 dB/ MUTE (1 dB step)	○
SW (LPF)		25/31.5/40/50/63/80/100/125/160/200/250/315/400/500/630/800/1 k/1.25 k/1.6 k/2 k/2.5 k/3.15 k/4 k/5 k/6.3 k/8 k/10 k/12.5 k/16 k/20 k	PASS, -6 dB/-12 dB/-18 dB/-24 dB/-30 dB/-36 dB/oct.	+6 to -24 dB/ MUTE (1 dB step)	○

Point 3

- Digital signal is directly transferred to DSP for high-quality sound reproduction from USB device and iPod.
- 125-Color Button Illumination offers choice of colors to closely match the illumination of various dashboard displays.
- Automatically mutes sound from source being played as a car window or door are being opened or closed.



DEH-80PRS

Audio Receiver for Entering the World of High-Quality Car Audio



FULL DOT LCD **Separated Color** **MULTI-LANGUAGE DISPLAY** **CD-R/RW** **MP3 WMA AAC** **SD** **AUX IN** **3 RCA pre-outs** **Hi-VOLT** **24bit DA Converter**
DSP **Lever Key** **FLAP FACE** **Anti-Dust Design** **DIR REC REMOTE INPUT** **RDS** **SUPER TUNER III** **MOSFET 50W x 4** **DETACHABLE FACE SECURITY** **Music Browser**

Dual USB

Made for iPod iPhone

Key Selling Points

- Point 1** **Devices and materials carefully selected according to the highest standards to achieve the ultimate in sound quality.**
- Point 2** **Pioneer's exclusive sound field technologies including Auto EQ and Auto Time Alignment help optimize audio in ways that perfectly suit particular listening spaces and allow subtle manual control of settings.**
- Point 3** **Versatile connectivity helps deliver exceptional sound quality from various digital devices.**

Main Features *(Blue text: upgraded features from DEH-9450UB)*

- CD Player
- Full Dot LCD Display (192 x 48 Pixels, 3-Line)
- LED Backlight
- Multi-Language Display (English/Spanish/Portuguese)
- Separated Color Customization (More than 210,000 Colors)
- SD/SDHC Memory Card Slot
- USB Direct Control for iPod/iPhone (CD-IU51 Required)
- Dual USB Ports (Rear: High Current 1A Handling Capability)
- AUX Input (Front)
- Music Browser
- MP3/WMA/WAV/AAC Playback
- **3-Way Digital Network**
- **DSP with Dual (L/R) 16-Band GEQ**
- **Auto EQ and Auto Time Alignment**
- **Exclusively Designed Audio Parts**
- Advanced Sound Retriever
- MOSFET 50 W x 4
- Supertuner® IIID
- RDS
- **Hi-Volt RCA Preouts x 3 (5V)**
- Flap Face
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Detachable Face Security™
- Lever Key
- Rotary Volume Control
- **Aluminum Rotary Volume Knob**
- Card Remote Control

iPod/iPhone Compatibility

Made for
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, and 4th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, and 6th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 100 for more details.

Point 1

High Performance Burr-Brown 24-bit Advanced Segment D/A Converter x 3

Incorporation of three circuit boards for each of high, mid and low frequency ranges make for exceptional linear sound reproduction with wide dynamic range and low distortion of original sources.



Four-Layer Circuit Board Design

Uses four-layer copper foil, and parts are set by reflow mounting to both sides of the circuit board. A more highly integrated parts layout makes the circuit board significantly more compact than a conventional one. Ground and power supply patterns are mainly used in the inside layer and the low impedance as a result greatly reduces noise.



Full-Custom High-Capacitance Power Supply Capacitor

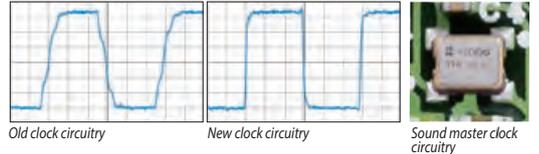
Stabilizes power supply to keep sound clear and consistent. Original parts are developed and tuned for optimal sound quality through close examination of materials and repeated listening trials.



Sound Master Clock Circuitry

Generates clock waveforms to read and process digital signals with extraordinary precision to eliminate jitter (digital signal time axis fluctuation noise). Very fine signals can be accurately reproduced.

Clock Wave Form Comparison



Point 2

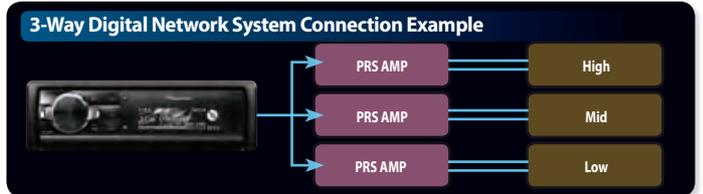
28-bit Binary Floating-Point DSP

Handling of a wider range of complicated calculations than fixed-point DSP and use of advanced programming technology allows for this high-precision sound processing and tuning without source digital signal degradation.



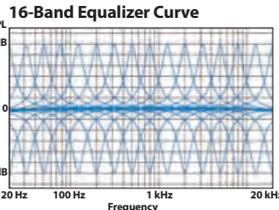
3-Way Digital Network Mode

The DEH-80PRS lets user switch to "network mode" for a 3-Way Digital Network, connecting (via three preouts) up to three external amplifiers, dedicated to driving high-, mid- and low-frequency ranges, respectively. The result: more distinct separation of the three frequency ranges, for more full, natural sound realizing more of each speaker's potential in a multi-speaker system.



L/R Independent 16-Band Digital Equalizer

Incorporates L/R Independent 16-Band Digital Equalizer excellent at correcting frequency characteristics distortion. Makes full, fine adjustment by each 2/3 octave to realize ideally flat sound characteristics in any type of car.



Time Alignment

Not only can this function precisely adjust each speaker's output timing according to its distance from the listening position in 1.25 cm increments – it is also adaptable to a 3-way multi-amplifier and speaker system.

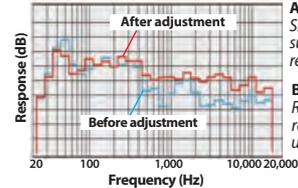


Auto Time Alignment and Auto EQ

Time alignment automatically estimates the delay from each speaker to driver's position and adjusts speaker sound output timing accordingly by 0.77 cm differences, so that sound from all speakers reaches the driver's ears in perfect sync. Auto EQ tailors specific musical characteristics according to taste, uses a microphone to monitor and analyze acoustics, then automatically fine-tunes all frequency bandwidths and front and rear speaker digital parametric equalization. These entire processes occur in 399 seamless steps in just about 6 minutes and 30 seconds.



Auto EQ Adjustment Example



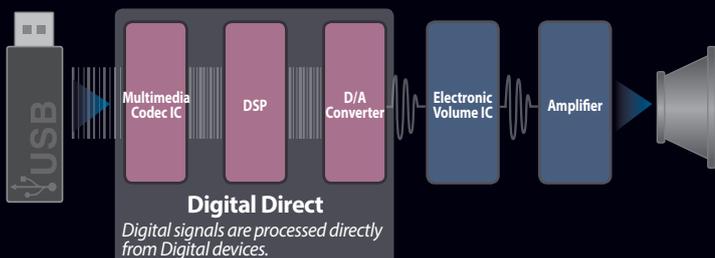
After adjustment:
Smooth response with subtle nuances reproduced clearly.

Before adjustment:
Rough frequency response curve; unclear overall sound.

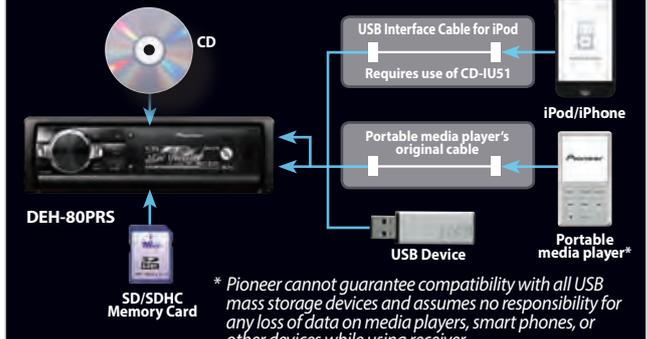
Point 3

Direct Digital Transfer for Superior Compressed Audio File Sound Quality

Musical signals recorded in an iPod, USB device and SD memory card are directly transferred to a DSP as digital signals and processed so that quality of sound using these digital devices is excellent.



Connection Example for USB Devices, SD Memory Card and External Auxiliary Device



USER INTERFACE

Pioneer ARC

Pioneer ARC

All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB, DEH-X9650BT, DEH-X9650SD, DEH-X8750BT, DEH-X7750UI, DEH-155MP(G), FH-X575UI and MVH-85UB)

After downloading Pioneer's ARC app from the App Store or Google Play™, you can use your smartphone to control Pioneer receiver functions including presets, fast forward/rewind, and artist/album search.



EQ Setting **NEW**

Conventional Setting



Setting with Pioneer ARC App

Easy!

Easily adjust and select desired EQ setting.



CONNECTIVITY

Spotify® **NEW**



DEH-X7850BT	DEH-X4950BT	DEH-X3950BT	DEH-X2950UI
DEH-X5	DEH-X1	FH-X785BT	MVH-X585BT
MVH-X395BT	MVH-X195UI*	MVH-X3	

Spotify® gives you instant access to millions of songs. With support for Spotify®, you can control the Spotify® app on your smartphone via your car receiver's interface.



* Compatible with iOS only.

Built-in Bluetooth®



DEH-X9650BT	DEH-X8750BT	DEH-X7850BT	DEH-X6850BT
DEH-X4950BT	DEH-X3950BT	DEH-X5	FH-X785BT
MVH-X585BT	MVH-X395BT	MVH-X3	MXT-X396BT

Bluetooth Wireless Technology makes hands-free operation comfortable and safe while driving.

Two-Phone Full Time Connection

All Audio Receivers Compatible with Bluetooth (Except DEH-X9650BT)

The receiver can receive calls from either of two mobile phones that are connected to it.



AUDIO

13-Band Graphic EQ **NEW**

DEH-X7850BT	FH-X785BT	MVH-X585BT
-------------	-----------	------------

With the 13-Band Graphic Equalizer, you can adjust sound settings with more precision and detail according to your acoustic preferences.



3-Way Network Mode **NEW**

DEH-80PRS	DEH-X7850BT	FH-X785BT	MVH-X585BT
-----------	-------------	-----------	------------

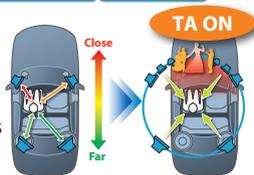
Connect (via three preouts) up to three external amplifiers, for more distinct separation among high-, mid- and low-frequency ranges, and more natural sound that fully realizes each speaker's potential.



Time Alignment

DEX-P99RS*	DEH-80PRS*	DEH-X7850BT	FH-X785BT
MVH-X585BT			

By using Time Alignment function, you can adjust speaker output timing, so that sound from all speakers reaches the driver's ears in perfect sync.



The different distances from each speaker to the driver cause the delay of sound.

Time Alignment makes all speakers sound as if they are virtually equidistant from the driver.

* Auto Time Alignment

Support FLAC Codec*

DEH-X8750BT	DEH-X7850BT	DEH-X7750UI
FH-X785BT	MVH-X585BT	MVH-85UB



New Pioneer audio receiver upgrades in-car audio with amazingly brilliant reproduction of sound by FLAC files surpass CD tracks in terms of playback audio quality.

* For the files stored in USB thumb drive.

Advanced Sound Retriever

All Audio Receivers (Except MVH-85UB)

Reproduces high-quality sound from compressed digital audio files and Bluetooth wireless audio streams.



DESIGN

Prism-cut Rotary Volume Control **NEW**

DEH-X4950BT	DEH-X2950UI	DEH-X5
DEH-X1	MVH-X3	

Unique prism-cut rotary volume control can be illuminated in your choice of color to enhance the car cabin's mood.



OTHERS

USB Quick Charge for Android (CDP) **NEW**



DEH-X4950BT	DEH-X3950BT*	DEH-X2950UI	DEH-X1953UB
DEH-X5	DEH-X1		

* GS model only

Pioneer's new audio receiver has a charging downstream port (CDP) providing up to 1.5 amperes to give an Android smartphone a quick charge.



DEH-9450UB

Audio Receiver with Dual USB Ports, USB Direct Control for iPod/iPhone, and Auto Flap Face



Key Selling Points

- Point 1
Pages 48 & 50
Highly functional, high-quality face panel design features a smoothly motorized auto flap and clear front interface.
- Point 2
Page 47
Specialized audio parts carefully chosen for outstanding audio quality.
- Point 3
Page 48
Music Browser for faster, simpler song search and selection.

Main Features (Blue text: upgraded features from DEH-X9650BT)

- CD Player
- Full Dot LCD Display (192 x 48 Pixels, 3-Line)
- LED Backlight
- Multi-Language Display (English/Spanish/Portuguese)
- Separated Color Customization (More than 210,000 Colors)
- USB Direct Control for iPod/iPhone (CD-IU51 Required)
- Dual USB Ports (Rear: High Current 1A Handling Capability)
- AUX Input (Rear)
- Music Browser
- MP3/WMA/WAV/AAC Playback
- Specialized Audio Parts
- Advanced Sound Retriever
- MOSFET 50 W x 4
- Supertuner® IIID
- RDS
- Hi-Volt RCA Preouts x 3 (4V)
- 5-Band Graphic EQ
- **Auto Flap Face**
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Detachable Face Security™
- Lever Key
- Rotary Volume Control
- Card Remote Control

iPod/iPhone Compatibility

Made for
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, and 4th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, and 6th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 100 for more details.

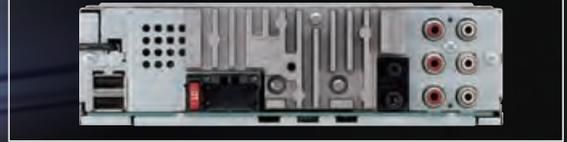
AUDIO RECEIVERS

DEH-X9650BT

Audio Receiver with MIXTRAX, Built-in Bluetooth®, Dual USB Ports, Direct Control for iPod/iPhone and Certain Android Phones, and Flap Face



Rear Panel



DEH-X9650SD

Audio Receiver with MIXTRAX, Dual USB Ports, Direct Control for iPod/iPhone and Certain Android Phones, and Flap Face



Rear Panel



MIXTRAX
Bluetooth®

Dual USB

Made for
iPod iPhone

Smartphone
Compatible

Note: "Bluetooth Wireless Technology" and "Siri Eyes Free" for DEH-X9650BT.

Key Selling Points

Point 1
Pages 48 & 50
Finely detailed Full Dot 3-Line LCD display features flap face with sleek, elegant design.

Point 2
Page 46
Non-Stop Mix Play makes it quick and easy to enjoy simple, seamless music sequencing. Cool Flashing Color livens up the cabin with light pulsing to the beat of the music.

MIXTRAX

Point 3
Page 45
Smartphone compatibility lets you play music stored in an iPod, iPhone or Android phone through your car audio system.

Made for
iPod iPhone

Smartphone
Compatible

Point 4
Page 45
Dual USB Ports with 1A high current handling capability enable connections to various digital devices.

Dual USB

1A

Common Main Features *(Blue text: upgraded features from DEH-X8750BT)*

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Flashing Color for MIXTRAX
- CD Player
- Full Dot LCD Display (192 x 48 Pixels, 3-Line)
- LED Backlight
- Multi-Language Display
- Separated Color Customization (More than 210,000 Colors)
- SD/SDHC Memory Card Slot
- Media App Control for iPod/iPhone
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)
- Dual USB Ports (Rear: High Current 1A Handling Capability)
- AUX Input (Front)
- Music Browser
- MP3/WMA/WAV/AAC Playback
- Specialized Audio Parts
- Advanced Sound Retriever
- MOSFET 50W x 4
- Supertuner® III D
- RDS
- Hi-Volt RCA Preouts x 3 (4V)
- 5-Band Graphic EQ
- Flap Face
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Brightness Setting
- Detachable Face Security™
- Lever Key
- Rotary Volume Control
- Card Remote Control

DEH-X9650BT Main Features *(Blue text: upgraded features from DEH-X9650SD)*

- Bluetooth for Hands-Free Calling & Wireless Audio
- Siri Eyes Free
- Media App Control for Android
- Advanced Sound Retriever for Bluetooth Wireless Audio

iPod/iPhone Compatibility

Made for
iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, and 5th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 100 for more details.

DEH-X8750BT

Audio Receiver with MIXTRAX, Built-in Bluetooth®, and Direct Control for iPod/iPhone and Certain Android Phones



Rear Panel



DEH-X7750UI

Audio Receiver with MIXTRAX, and Direct Control for iPod/iPhone and Certain Android Phones



Rear Panel



Notes: "Bluetooth Wireless Technology" and "Siri Eyes Free" for DEH-X8750BT.

Key Selling Points

Point 1
Pages 48 & 50 **Finely detailed Full Dot 3-Line LCD large display features lever key.**



Point 2
Page 47 **Experience superior audio performance with Advanced Sound Retriever, 5-Band Graphic EQ, FLAC codec playback* and more.**



* For the files stored in USB thumb drive.

Point 3
Page 48 **Music Browser for faster, simpler song search and selection.**



Common Main Features (Blue text: upgraded features from DEH-X6850BT)

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Flashing Color for MIXTRAX
- CD Player
- Full Dot LCD Display (192 x 48 Pixels, 3-Line)
- LED Backlight
- Multi-Language Display
- Separated Color Customization (More than 210,000 Colors)
- Media App Control for iPod/iPhone
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)
- USB Port (Rear: High Current 1A Handling Capability)
- AUX Input (Rear)
- Music Browser
- MP3/WMA/WAV/AAC Playback
- FLAC* Playback
- Advanced Sound Retriever
- MOSFET 50 W x 4
- Supertuner® IIID
- RDS
- Hi-Volt RCA Preouts x 3 (4V)
- 5-Band Graphic EQ
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Brightness Setting
- Illumination Line
- Illumination Timer
- Detachable Face Security™
- Lever Key
- Rotary Volume Control
- Card Remote Control

DEH-X8750BT Main Features

- Media App Control for Android
- Bluetooth for Hands-Free Calling & Wireless Audio
- Siri Eyes Free
- Advanced Sound Retriever for Bluetooth Wireless Audio
- Two-Phone Full Time Connection

iPod/iPhone Compatibility

Made for
iPhone 5s, iPhone 5c, iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, and 5th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 100 for more details.

* For the files stored in USB thumb drive.

DEH-X7850BT NEW

Audio Receiver with MIXTRAX, Built-in Bluetooth®, Dual USB Ports, and Direct Control for iPod/iPhone and Certain Android Phones



Note: "Hi-Volt Preout" and "Shortwave Tuner" for GS models only.

Key Selling Points

- Point 1**
Page 44
Browse music files, access music apps, and extend your command of radio in new ways directly from the Pioneer ARC App. It makes even detailed EQ, crossover and other audio settings easy and intuitive using a smartphone touchscreen.
- Point 2**
Pages 46 & 47
Enhanced audio functions for precise definition of sound include 3-Way Network Mode, Time Alignment, 13-Band EQ and FLAC codec playback*.

* For the files stored in USB thumb drive.
- Point 3**
Page 48
New Pioneer display design and technology features.
 - Large text and display layout to enhance visibility
 - Display designed and built for easier viewing

Main Features (Blue text: upgraded features from DEH-X7750UI)

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Flashing Color for MIXTRAX
- CD Player
- Wider 13-Digit + 1 LCD Display (2-Line)
- LED Backlight
- Multi-Language Display
- Separated Color Customization (More than 210,000 Colors)
- Media App Control for iPod/iPhone
- Media App Control for Android
- Pioneer ARC (iPhone/Android)
- Direct Control for iPod/iPhone (USB/Bluetooth)
- Direct Control for Certain Android Phones (USB)
- Spotify
- Bluetooth for Hands-Free Calling & Wireless Audio
- Siri Eyes Free
- Dual USB Ports (Front/Rear: High Current 1A Handling Capability)
- AUX Input (Front)
- MP3/WMA/WAV/AAC Playback
- FLAC* Playback
- 3-Way Network Mode
- Manual Time Alignment
- Advanced Sound Retriever
- Advanced Sound Retriever for Bluetooth Wireless Audio
- MOSFET 50 W x 4
- Supertuner® III D
- Shortwave Tuner (GS Model Only)**
- RDS
- Hi-Volt RCA Preouts x 3 (4 V) (GS Model)**
- RCA Preouts x 3 (2 V) (CS Model)**
- 13-Band Graphic EQ
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Brightness Setting
- Illumination Line
- Illumination Timer
- Detachable Face Security™
- Rotary Volume Control
- Card Remote Control
- USB Source Change Function
- Two-Phone Full Time Connection

iPod/iPhone Compatibility	
Made for	
iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6	
iPhone 5s, iPhone 5c, iPhone 5	
iPhone 4s	
iPhone 4	
iPhone 3GS	
iPhone 3G	
iPhone	
iPod touch (1st, 2nd, 3rd, 4th, 5th, and 6th generation)	
iPod classic	
iPod with video	
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)	

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 100 for more details.

* For the files stored in USB thumb drive.
 ** See page 51 for more details about GS and CS models.

DEH-X6850BT

Audio Receiver with MIXTRAX, Built-in Bluetooth®, and Direct Control for iPod/iPhone and Certain Android Phones



Note: "Shortwave Tuner" for GS models only.

Key Selling Points

Point 1 Page 45 **Greatly improved connectivity to access various media.** **Bluetooth®** **USB**

- Wireless Audio Playback by Bluetooth
- USB Direct Control for iPod/iPhone and for certain Android Phones via MTP and AOA 2.0

Point 2 Pages 48 & 49 **Enhanced visual features make interior space richer.**

- Flexible adjustment with Color Customization, Brightness and Dimmer Setting
- Superior visibility and contrast on Large VA LCD display with 2-line text

Point 3 Page 46 **Enjoy your favorite tunes made more lively and entertaining with audio specialized functions.**

- Exciting nonstop mixed music experience by MIXTRAX
- Extra bass from Adjustable Bass Boost

Main Features (Blue text: upgraded features from DEH-X4950BT)

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Flashing Color for MIXTRAX
- CD Player
- Wider VA LCD Display (13-Character + Sub Display)
- LED Backlight
- Multi-Language Display
- Separated Color Customization (More than 210,000 Colors)
- Media App Control for iPod/iPhone
- Media App Control for Android
- Pioneer ARC (iPhone/Android)
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)
- Bluetooth for Hands-Free Calling & Wireless Audio
- Siri Eyes Free
- Bright USB Port (Front: High Current 1A Handling Capability)
- AUX Input (Front)
- MP3/WMA/WAV/AAC Playback
- Advanced Sound Retriever
- Advanced Sound Retriever for Bluetooth Wireless Audio
- MOSFET 50 W x 4
- Supertuner® IIID
- Shortwave Tuner (GS Model Only)*
- RDS
- RCA Preouts x 2 (2 V)
- 5-Band Graphic EQ
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Brightness Setting
- Illumination Line
- Illumination Timer
- Detachable Face Security™
- Rotary Volume Control
- Card Remote Control
- USB Source Change Function
- Two-Phone Full Time Connection

* See page 51 for more details about GS models.

iPod/iPhone Compatibility

Made for
iPhone 6 Plus, iPhone 6
iPhone 5s, iPhone 5c, iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, and 5th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 100 for more details.

DEH-X4950BT

NEW

Audio Receiver with MIXTRAX, Built-in Bluetooth®, and Direct Control for iPod/iPhone and Certain Android Phones



Rear Panel



DEH-X2950UI

NEW

Audio Receiver with MIXTRAX, Direct Control for iPod/iPhone and Certain Android Phones



Rear Panel



Note: "Bluetooth Wireless Technology" and "Siri Eyes Free" for DEH-X4950BT.

Key Selling Points

- Point 1**
Page 44
Browse music files, access music apps, and extend your command of radio in new ways directly from the Pioneer ARC App. It makes even detailed EQ and other audio settings easy and intuitive using a smartphone touchscreen.
- Point 2**
Page 45
Greatly improved connectivity to access various media.
 - Wireless Audio Playback by Bluetooth (DEH-X4950BT)
 - USB Direct Control for iPod/iPhone and for certain Android Phones via MTP and AOA 2.0
- Point 3**
Pages 48&49
Enhanced visual features make interior space richer.
 - Flexible adjustment with Color Customization, Brightness and Dimmer Setting
 - Superior visibility and contrast on Large VA LCD display with 2-line text

Common Main Features (Blue text: upgraded features from DEH-X1950UB(G))

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Flashing Color for MIXTRAX
- CD Player
- Wider VA LCD Display (13-Character)
- LED Backlight
- Multi-Language Display
- Separated Color Customization (More than 210,000 Colors)
- Media App Control for iPod/iPhone
- Media App Control for Android*
- Pioneer ARC (iPhone/Android)
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)
- Spotify*
- Bright USB Port (Front: High Current 1A Handling Capability)
- AUX Input (Front)
- MP3/WMA/WAV Playback
- Advanced Sound Retriever
- MOSFET 50 W x 4
- Supertuner® IIID
- Shortwave Tuner
- RDS
- RCA Preouts x 2 (2 V)
- 5-Band Graphic EQ
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Brightness Setting
- Separated Dimmer Setting
- Illumination Line
- Illumination Timer
- Detachable Face Security™
- Prism-cut Rotary Volume Control
- Card Remote Control
- USB Source Change Function
- USB Quick Charge for Android (CDP)

iPod/iPhone Compatibility

Made for
iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6
iPhone 5s, iPhone 5c, iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, 5th, and 6th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 100 for more details.

DEH-X4950BT Main Features

- Bluetooth for Hands-Free Calling & Wireless Audio
- Siri Eyes Free
- AAC Playback
- Advanced Sound Retriever for Bluetooth Wireless Audio
- Two-Phone Full Time Connection

* DEH-X2950UI: Required to be used through Pioneer ARC app.

DEH-X3950BT NEW

Audio Receiver with MIXTRAX, Built-in Bluetooth®, and Direct Control for iPod/iPhone and Certain Android Phones



Rear Panel

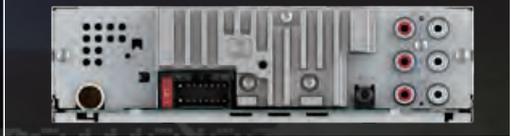


DEH-X1953UB NEW

Audio Receiver with MIXTRAX, and Direct Control for Certain Android Phones



Rear Panel (DEH-X1953UB)



DEH-X1950UB(G) NEW

Audio Receiver with MIXTRAX, and Direct Control for Certain Android Phones

DEH-X1952UB NEW

Audio Receiver with MIXTRAX, and Direct Control for Certain Android Phones



Notes: "Direct Control for iPod/iPhone," "Spotify," "Bluetooth Wireless Technology" and "Siri Eyes Free" for DEH-X3950BT. "USB Quick Charge for Android" for DEH-X3950BT and DEH-X1953UB. *1. DEH-X1953UB *2. DEH-X3950BT/DEH-X1952UB *3. DEH-X1950UB(G)

Key Selling Points

Point 1
Page 44

Browse music files, access music apps, and extend your command of radio in new ways directly from the Pioneer ARC App. It makes even detailed EQ and other audio settings easy and intuitive using a smartphone touchscreen.

Point 2
Page 45

Greatly improved connectivity to access various media.

- Wireless Audio Playback by Bluetooth (DEH-X3950BT)
- USB Direct Control for iPod/iPhone* and for certain Android Phones via MTP and AOA 2.0

*DEH-X1953UB, DEH-X1952UB and DEH-X1950UB(G) are not compatible with iPod/iPhone.

Point 3
Page 46

Enjoy your favorite tunes made more lively and entertaining with audio specialized functions.

- Exciting nonstop mixed music experience by MIXTRAX
- Extra bass from Adjustable Bass Boost

Common Main Features

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- CD Player
- Wider VA LCD Display (13-Character)
- LED Backlight
- Multi-Language Display
- Media App Control for Android*
- Direct Control for Certain Android Phones (USB)
- Bright USB Port (Front: High Current 1A Handling Capability)
- AUX Input (Front)
- MP3/WMA/WAV Playback
- Advanced Sound Retriever
- MOSFET 50W x 4
- Supertuner® IIIID
- Shortwave Tuner**
- RDS
- 5-Band Graphic EQ
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Brightness Setting
- Illumination Timer
- Detachable Face Security™
- Rotary Volume Control
- Card Remote Control
- USB Source Change Function

DEH-X3950BT Main Features

(Blue text: upgraded features from DEH-X2950UI)

- Media App Control for iPod/iPhone
- Pioneer ARC (iPhone/Android)
- Direct Control for iPod/iPhone (USB)
- Spotify®
- Bluetooth for Hands-Free Calling & Wireless Audio
- Siri Eyes Free
- AAC Playback
- Advanced Sound Retriever for Bluetooth Wireless Audio
- RCA Preamouts x 2 (2V)
- USB Quick Charge for Android (CDP) (GS Model Only)
- Two-Phone Full Time Connection

DEH-X1953UB Main Features

(Blue text: upgraded features from DEH-X1952UB)

- Pioneer ARC (Android)
- USB Quick Charge for Android (CDP)
- RCA Preamouts x 3 (2V)

DEH-X1952UB Main Features

(Blue text: upgraded features from DEH-X1950UB(G))

- Dual Color (Red/Blue)
- RCA Preamouts x 2 (2V)
- Pioneer ARC (Android)
- Carbon Finish Design

DEH-X1950UB(G) Main Features

- Pioneer ARC (Android)
- RCA Preamout x 1 (2V)

iPod/iPhone Compatibility

Made for
iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6
iPhone 5s, iPhone 5c, iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, 5th, and 6th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 100 for more details.

*DEH-X1953UB/DEH-X1952UB/DEH-X1950UB(G): Required to be used through Pioneer ARC app.

**DEH-X3950BT: GS model only. See page 51 for more details about GS models.

AUDIO RECEIVERS

DEH-X4850FD

Audio Receiver with MIXTRAX, Built-in 100 W x 4-ch. Class-FD Amplifier, and Direct Control for iPod/iPhone and Certain Android Phones



Rear Panel



MVH-X285FD

Digital Media Receiver with MIXTRAX, Built-in 100 W x 4-ch. Class-FD Amplifier, and Direct Control for iPod/iPhone and Certain Android Phones



Rear Panel



MIXTRAX

Made for

 Smartphone Compatible

Note: "Anti-Dust Design" for DEH-X4850FD.

Key Selling Points

- Point 1**
 Page 47

Internal 100 W x 4-ch. amplifier with Class-FD configuration including special circuit board made for quality sound and component for stable output brings powerful sound reproduction and music playback.

Class FD
- Point 2**
 Page 48

13-Digit, Wider VA LCD display provides superior visibility and contrast throughout a wide viewing angle range.
- Point 3**
 Page 46

Enjoy your favorite tunes made more lively and entertaining with audio specialized functions.

 - Exciting nonstop mixed music experience by MIXTRAX
 - Extra bass from Adjustable Bass Boost

MIXTRAX

Common Main Features

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Wider VA LCD Display (13-Character)
- LED Backlight
- Multi-Language Display
- Media App Control for iPod/iPhone
- Media App Control for Android*
- Pioneer ARC (iPhone/Android)
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)
- Bright USB Port (Front: High Current 1A Handling Capability)
- AUX Input (Front)
- MP3/WMA/WAV Playback
- Advanced Sound Retriever
- Class FD 100 W x 4
- Supertuner III D
- Shortwave Tuner
- RDS
- RCA Preouts x 2 (2 V)
- 5-Band Graphic EQ
- Wired Remote Input
- Display Off Mode
- Brightness Setting
- Illumination Timer
- Detachable Face Security™
- Rotary Volume Control
- Card Remote Control
- USB Source Change Function

iPod/iPhone Compatibility

Made for
iPhone 6 Plus, iPhone 6
iPhone 5s, iPhone 5c, iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, and 5th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 100 for more details.

DEH-X4850FD Main Features

- CD Player
- Anti-Dust Design

* Required to be used through Pioneer ARC app.

DEH-X5 NEW

Audio Receiver with MIXTRAX, Built-in Bluetooth®, and Direct Control for iPod/iPhone and Certain Android Phones



Rear Panel

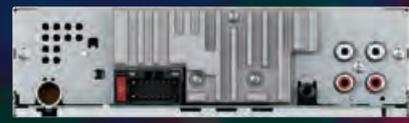


DEH-X1 NEW

Audio Receiver with MIXTRAX, and Direct Control for iPod/iPhone and Certain Android Phones



Rear Panel



MVH-X3 NEW

Digital Media Receiver with MIXTRAX, Built-in Bluetooth, and Direct Control for iPod/iPhone and Certain Android Phones



Rear Panel



Notes: "Anti-Dust Design" and "USB Quick Charge for Android" for DEH-X5 and DEH-X1. "Bluetooth Wireless Technology" and "Siri Eyes Free" for DEH-X5 and MVH-X3.

Key Selling Points

Point 1 **Pages 49 & 50** Unique Prism-cut Rotary Volume Control with illumination synced to the beat of the music. **Separated Color**
 • Flexible adjustment with Color Customization, Brightness and Separated Dimmer Setting

Point 2 **Page 46** Enjoy your favorite music as a nonstop mix complete with visual and audible effects by MIXTRAX. **MIXTRAX**

Point 3 **Page 44** Browse music files, access music apps, and extend your command of radio in new ways directly from the Pioneer ARC App. It makes even detailed EQ and other audio settings easy and intuitive using a smartphone touchscreen. **Pioneer ARC**

Common Main Features

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Flashing Color for MIXTRAX
- Wider VA LCD Display (13-Character)
- LED Backlight
- Multi-Language Display
- Separated Color Customization (More than 210,000 Colors)
- Media App Control for iPod/iPhone
- Media App Control for Android*
- Pioneer ARC (iPhone/Android)
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)
- Spotify®
- Bright USB Port (Front: High Current 1A Handling Capability)
- AUX Input (Front)
- MP3/WMA/WAV Playback
- Advanced Sound Retriever
- MOSFET 50 W x 4
- Supertuner® III D
- RDS
- RCA Preouts x 2 (2 V)
- 5-Band Graphic EQ
- Wired Remote Input
- Display Off Mode
- Brightness Setting
- Separated Dimmer Setting
- Illumination Line
- Illumination Timer
- Detachable Face Security™
- Prism-cut Rotary Volume Control
- Card Remote Control
- USB Source Change Function

iPod/iPhone Compatibility

Made for
iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6
iPhone 5s, iPhone 5c, iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, 5th, and 6th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 100 for more details.

DEH-X5 Main Features

(Blue text: upgraded features from DEH-X1)

- CD Player
- Bluetooth for Hands-Free Calling & Wireless Audio
- Siri Eyes Free
- AAC Playback
- Advanced Sound Retriever for Bluetooth Wireless Audio
- Anti-Dust Design
- USB Quick Charge for Android (CDP)
- Two-Phone Full Time Connection

DEH-X1 Main Features

- CD Player
- Anti-Dust Design
- USB Quick Charge for Android (CDP)

MVH-X3 Main Features

- Bluetooth for Hands-Free Calling & Wireless Audio
- Siri Eyes Free
- AAC Playback
- Advanced Sound Retriever for Bluetooth Wireless Audio
- Two-Phone Full Time Connection

*DEH-X1: Required to be used through Pioneer ARC app.

FH-X785BT NEW

Double-DIN Audio Receiver with MIXTRAX, Built-in Bluetooth®, and USB Direct Control for iPod/iPhone and Certain Android Phones



Key Selling Points

- Point 1**
Page 44
Browse music files, access music apps, and extend your command of radio in new ways directly from the Pioneer ARC App. It makes even detailed EQ, crossover and other audio settings easy and intuitive using a smartphone touchscreen.
- Point 2**
Pages 46 & 47
Enhanced audio functions for precise definition of sound include 3-Way Network Mode, Time Alignment, 13-Band EQ and FLAC codec playback*.

*For the files stored in USB thumb drive.
- Point 3**
Page 48
New Pioneer display design and technology features.
 - Large text and display layout to enhance visibility
 - Display designed and built for easier viewing

Main Features (Blue text: upgraded features from FH-X575UI)

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Flashing Color for MIXTRAX
- CD Player
- Wider 13-Digit + 1 LCD Display (2-Line)
- LED Backlight
- Multi-Language Display
- Separated Color Customization (More than 210,000 Colors)
- Media App Control for iPod/iPhone
- Media App Control for Android
- Pioneer ARC (iPhone/Android)
- Direct Control for iPod/iPhone (USB/Bluetooth)
- Direct Control for Certain Android Phones (USB)
- Spotify
- Bluetooth for Hands-Free Calling & Wireless Audio
- Siri Eyes Free
- Bright USB Port (Front: High Current 1A Handling Capability)
- AUX Input (Front)
- MP3/WMA/WAV Playback
- AAC/FLAC* Playback
- 3-Way Network Mode
- Manual Time Alignment
- Advanced Sound Retriever
- Advanced Sound Retriever for Bluetooth Wireless Audio
- MOSFET 50 W x 4
- Supertuner® IIID
- Shortwave Tuner
- RDS
- RCA Preouts x 3 (2 V)
- 13-Band Graphic EQ
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Brightness Setting
- Illumination Line
- Illumination Timer
- Rotary Volume Control
- Card Remote Control
- USB Source Change Function
- Two-Phone Full Time Connection

iPod/iPhone Compatibility

Made for
iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6
iPhone 5s, iPhone 5c, iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, 5th, and 6th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 100 for more details.

FH-X575UI

Double-DIN Audio Receiver with MIXTRAX, and USB Direct Control for iPod/iPhone and Certain Android Phones



MIXTRAX

Key Selling Points

- Point 1**
Page 46
Non-Stop Mix Play makes it quick and easy to enjoy simple, seamless music sequencing. Cool Flashing Color livens up the cabin with light pulsing to the beat of the music.
- Point 2**
Pages 48 & 50
Cool, sleek new panel is designed to incorporate VA LCD display and fit perfectly in a 2-DIN space in the dash.
- Point 3**
Page 49
Allows flexible adjustment of illumination and color using Color Customization, Brightness Setting and Dimmer Setting.

Main Features *(Blue text: upgraded features from FH-X385UB)*

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Flashing Color for MIXTRAX
- CD Player
- VA LCD Display (13-Character + Sub Display)
- LED Backlight
- Separated Color Customization (More than 210,000 Colors)
- Media App Control for iPod/iPhone
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)
- Bright USB Port (Front: High Current 1A Handling Capability)
- AUX Input (Front)
- MP3/WMA/WAV Playback
- Advanced Sound Retriever
- MOSFET 50 W x 4
- Supertuner® III D
- Shortwave Tuner
- RDS
- RCA Preouts x 2 (2 V)
- 5-Band Graphic EQ
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Brightness Setting
- Illumination Line
- Illumination Timer
- Rotary Volume Control
- Card Remote Control

iPod/iPhone Compatibility

Made for
iPhone 6 Plus, iPhone 6
iPhone 5s, iPhone 5c, iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, and 5th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 100 for more details.

FH-X385UB

Double-DIN Audio Receiver with MIXTRAX, and Direct Control for Certain Android Phones



MIXTRAX

Main Features

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- CD Player
- Wider VA LCD Display (13-Character + Sub Display)
- LED Backlight
- Multi-Language Display
- Media App Control for Android*
- Pioneer ARC (Android)
- Direct Control for Certain Android Phones (USB)
- Bright USB Port (Front: High Current 1A Handling Capability)
- AUX Input (Front)
- MP3/WMA/WAV Playback
- Advanced Sound Retriever
- MOSFET 50 W x 4
- Supertuner® III D
- Shortwave Tuner
- RDS
- RCA Preouts x 2 (2 V)
- 5-Band Graphic EQ
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Brightness Setting
- Illumination Timer
- Rotary Volume Control
- Card Remote Control
- USB Source Change Function

* Required to be used through Pioneer ARC app.

MVH-X585BT NEW

Digital Media Receiver with MIXTRAX, Built-in Bluetooth®, Dual USB Ports, and Direct Control for iPod/iPhone and Certain Android Phones



Separated Color Display

MULTI-LANGUAGE DISPLAY

flac

Media App Control

3 RCA Pre-outs

Hi-VOLT Subwoofer Control

24bit DAC Converter

ULTRA BASS (LTP-F1)

SUPER TUNER III D

MIXTRAX

Bluetooth

Spotify

Pioneer ARC

Dual USB

Made for iPod iPhone

Smartphone Compatible

SHORT WAVE MOSFET 50W x 4

Siri Eyes Free

REMOVABLE HARD DRIVES

Key Selling Points

- Point 1
Page 44
Browse music files, access music apps, and extend your command of radio in new ways directly from the Pioneer ARC App. It makes even detailed EQ, crossover and other audio settings easy and intuitive using a smartphone touchscreen.
Pioneer ARC
- Point 2
Pages 46 & 47
Enhanced audio functions for precise definition of sound include 3-Way Network Mode, Time Alignment, 13-Band EQ and FLAC codec playback*.
- Point 3
Page 48
New Pioneer display design and technology features.
 - Large text and display layout to enhance visibility
 - Display designed and built for easier viewing

Main Features (Blue text: upgraded features from MVH-X395BT)

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Flashing Color for MIXTRAX
- Wider 13-Digit + 1 LCD Display (2-Line)
- LED Backlight
- Multi-Language Display
- Separated Color Customization (More than 210,000 Colors)
- Media App Control for iPod/iPhone
- Media App Control for Android
- Pioneer ARC (iPhone/Android)
- Direct Control for iPod/iPhone (USB/Bluetooth)
- Direct Control for Certain Android Phones (USB)
- Spotify®
- Bluetooth for Hands-Free Calling & Wireless Audio
- Siri Eyes Free
- Dual USB Ports (Front/Rear: High Current 1A Handling Capability)
- AUX Input (Front)
- MP3/WMA/WAV/AAC Playback
- FLAC* Playback
- 3-Way Network Mode
- Manual Time Alignment
- Advanced Sound Retriever
- Advanced Sound Retriever for Bluetooth Wireless Audio
- MOSFET 50W x 4
- SuperTuner® IIID
- Shortwave Tuner
- RDS
- Hi-Volt RCA Preouts x 3 (4V)
- 13-Band Graphic EQ
- Wired Remote Input
- Display Off Mode
- Brightness Setting
- Illumination Line
- Illumination Timer
- Detachable Face Security™
- Rotary Volume Control
- Card Remote Control
- USB Source Change Function
- Two-Phone Full Time Connection

iPod/iPhone Compatibility

Made for
iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6
iPhone 5s, iPhone 5c, iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, 5th, and 6th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 100 for more details.

MVH-X395BT NEW

Digital Media Receiver with MIXTRAX, Built-in Bluetooth®, and Direct Control for iPod/iPhone and Certain Android Phones



Rear Panel



MVH-X195UI NEW

Digital Media Receiver with MIXTRAX, and Direct Control for iPod/iPhone and Certain Android Phones



Rear Panel



MVH-85UB

Digital Media Receiver with Direct Control for Certain Android Phones



Rear Panel



Notes: "Bluetooth Wireless Technology," "Siri Eyes Free" and "Shortwave Tuner" for MVH-X395BT. "MIXTRAX," "VA LCD Display," "Multi-Language Display," "Media App Control," "Pioneer ARC," "Direct Control for iPod/iPhone," "Spotify," "Supertuner III D" and "Wired Remote Input" for MVH-X395BT and MVH-X195UI. "FLAC Playback" for MVH-85UB.

Key Selling Points

Point 1
Page 44
Browse music files, access music apps, and extend your command of radio in new ways directly from the Pioneer ARC App. It makes even detailed EQ and other audio settings easy and intuitive using a smartphone touchscreen.

Point 2
Page 45
Greatly improved connectivity to access various media.
 • Wireless Audio Playback by Bluetooth (MVH-X395BT)
 • USB Direct Control for iPod/iPhone* and for certain Android Phones via MTP and AOA 2.0

Point 3
Page 50
Shallow chassis depth allows for more flexibility in installation.

Common Main Features

- LED Backlight
- Direct Control for Certain Android Phones (USB)
- Bright USB Port (Front: High Current 1A Handling Capability)
- AUX Input (Front)
- MP3/WMA/WAV Playback
- MOSFET 50 W x 4
- RDS
- RCA Preout x 1 (2 V)
- 5-Band Graphic EQ
- Display Off Mode
- Illumination Timer
- Detachable Face Security™
- Rotary Volume Control
- USB Source Change Function

MVH-X395BT Main Features

(Blue text: upgraded features from MVH-X285FD)

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Wider VA LCD Display (13-Character)
- Multi-Language Display
- Media App Control for iPod/iPhone
- Media App Control for Android
- Pioneer ARC (iPhone/Android)
- Direct Control for iPod/iPhone (USB)
- Spotify*
- Bluetooth for Hands-Free Calling & Wireless Audio
- Siri Eyes Free
- AAC Playback
- Advanced Sound Retriever
- Advanced Sound Retriever for Bluetooth Wireless Audio
- Supertuner* III D
- Shortwave Tuner
- Wired Remote Input
- Brightness Setting
- Card Remote Control
- Two-Phone Full Time Connection

MVH-X195UI Main Features

(Blue text: upgraded features from MVH-85UB)

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Wider VA LCD Display (13-Character)
- Multi-Language Display
- Media App Control for iPod/iPhone
- Media App Control for Android*
- Pioneer ARC (iPhone/Android)
- Direct Control for iPod/iPhone (USB)
- Spotify*
- Advanced Sound Retriever
- Supertuner* III D
- Wired Remote Input
- Brightness Setting
- Card Remote Control

MVH-85UB Main Features

- LCD Display
- FLAC** Playback

* Required to be used through Pioneer ARC app.
** For the files stored in USB thumb drive.

iPod/iPhone Compatibility

Made for
iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6
iPhone 5s, iPhone 5c, iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, 5th, and 6th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 100 for more details.

AUDIO RECEIVERS

DXT-X1969UB NEW

Audio Receiver with MIXTRAX, Direct Control for Certain Android Phones, Front USB Port, and Speaker Package (6" x 9" & 16 cm Speakers)



Rear Panel



DXT-X196UB NEW

Audio Receiver with MIXTRAX, Direct Control for Certain Android Phones, Front USB Port, and Speaker Package (16 cm Speakers)



MIXTRAX

Pioneer ARC



Key Selling Points

Point 1
Page 51 **Speaker package models make it easy to upgrade a car audio system.**

Point 2
Page 44 **Browse music files, access music apps, and extend your command of radio in new ways directly from the Pioneer ARC App. It makes even detailed EQ and other audio settings easy and intuitive using a smartphone touchscreen.**

Pioneer ARC

Point 3
Page 46 **Enjoy your favorite tunes made more lively and entertaining with audio specialized functions.**

- Exciting nonstop mixed music experience by MIXTRAX
- Extra bass from Adjustable Bass Boost

MIXTRAX

Common Main Features

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- CD Player
- Wider VA LCD Display (13-Character)
- LED Backlight
- Multi-Language Display
- Media App Control for Android*
- Pioneer ARC (Android)
- Direct Control for Certain Android Phones (USB)
- Bright USB Port (Front: High Current 1A Handling Capability)
- AUX Input (Front)
- MP3/WMA/WAV Playback
- Advanced Sound Retriever
- MOSFET 50 W x 4
- Supertuner® III D
- Shortwave Tuner
- RDS
- RCA Preout x 1 (2 V)
- 5-Band Graphic EQ
- Anti-Dust Design
- Wired Remote Input
- Display Off Mode
- Brightness Setting
- Illumination Timer
- Detachable Face Security™
- Rotary Volume Control
- Card Remote Control
- USB Source Change Function

* Required to be used through Pioneer ARC app.

Speaker Specifications

Size	DXT-X1969UB		DXT-X196UB
	6" x 9"	16 cm	16 cm
Max. Music Power (Nominal)	230 W (30 W)	200 W (25 W)	200 W (25 W)
Frequency Response	28 Hz to 32 kHz	31 Hz to 16 kHz	31 Hz to 16 kHz
Sensitivity (1 W/1 m)	88 dB	88 dB	88 dB
Impedance	4 Ω	4 Ω	4 Ω
Mounting Depth	66.3 mm	41 mm	41 mm
Cut-Out Dimensions	153 mm x 222 mm	ø128 mm	ø128 mm

MXT-X396BT NEW

Digital Media Receiver with MIXTRAX, Built-in Bluetooth®, Direct Control for iPod/iPhone and Certain Android Phones, and Speaker Package (16 cm Speakers)



Key Selling Points

- Point 1**
Page 51 **Speaker package models make it easy to upgrade a car audio system.**
- Point 2**
Page 45 **Greatly improved connectivity to access various media.**
 - Wireless Audio Playback by Bluetooth
 - USB Direct Control for iPod/iPhone and for certain Android Phones via MTP and AOA 2.0
- Point 3**
Page 50 **Shallow chassis depth allows for more flexibility in installation.**

Main Features

- MIXTRAX (MIXTRAX EZ for Quick Non-Stop MIX Play)
- Wider VA LCD Display (13-Character)
- LED Backlight
- Multi-Language Display
- Media App Control for iPod/iPhone
- Media App Control for Android
- Pioneer ARC (iPhone/Android)
- Direct Control for iPod/iPhone (USB)
- Direct Control for Certain Android Phones (USB)
- Spotify®
- Bluetooth for Hands-Free Calling & Wireless Audio
- Siri Eyes Free
- Bright USB Port (Front: High Current 1A Handling Capability)
- AUX Input (Front)
- MP3/WMA/WAV/AAC Playback
- Advanced Sound Retriever
- Advanced Sound Retriever for Bluetooth Wireless Audio
- MOSFET 50 W x 4
- Supertuner® III D
- Shortwave Tuner
- RDS
- RCA Preout x 1 (2 V)
- 5-Band Graphic EQ
- Wired Remote Input
- Display Off Mode
- Brightness Setting
- Illumination Timer
- Detachable Face Security™
- Rotary Volume Control
- Card Remote Control
- USB Source Change Function
- Two-Phone Full Time Connection

Speaker Specifications

	MXT-X396BT
Size	16 cm
Max. Music Power (Nominal)	200 W (25 W)
Frequency Response	31 Hz to 16 kHz
Sensitivity (1 W/1 m)	88 dB
Impedance	4 Ω
Mounting Depth	41 mm
Cut-Out Dimensions	∅128 mm

iPod/iPhone Compatibility

Made for
iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6
iPhone 5s, iPhone 5c, iPhone 5
iPhone 4s
iPhone 4
iPhone 3GS
iPhone 3G
iPhone
iPod touch (1st, 2nd, 3rd, 4th, 5th, and 6th generation)
iPod classic
iPod with video
iPod nano (1st, 2nd, 3rd, 4th, 5th, 6th, and 7th generation)

Notes: Receiver may not operate other iPod or iPhone models. Compatibility with unit and operations may vary depending on the software version. See page 100 for more details.

USER INTERFACE

Pioneer ARC

Pioneer ARC

All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB, DEH-X9650BT, DEH-X9650SD, DEH-X8750BT, DEH-X7750UI, DEH-155MP(G), FH-X575UI and MVH-85UB)

Pioneer's ARC app allows you to use your smartphone to control select functions on your Pioneer receiver, including presets, fast forward and rewind, and artist and album search. You can download the app from the App Store and Google Play.



Swipe Left/Right to Change Tracks **Tap to play/Pause music** **Swipe Up to Source/App select** **Swipe Down to Browse music** **Two finger rotation to volume control**



- To utilize this function, the Pioneer ARC application needs to be installed on the smartphone.
- Please download the Pioneer ARC application from the App store or Google Play.
- For compatible iPod/iPhone devices. This function is compatible with iPhone and iPod touch devices operating iOS 8.0 or later.
- For compatible Android devices. This function is compatible with devices running Android OS 4.1 or later that also support Bluetooth SPP (Serial Port Profile) and AOA (Android Open Accessory) 2.0.
- Read the product's operation manual as well as all instructions and cautions before use. Become familiar with any applicable laws in your country and region.
- Pay attention to the road, limit glances at the device, and do not use any feature if it cannot be operated safely in your location and environment. Distracted driving may result in serious injury, including death.
- All of the app display image design can be changed or renewed.

Browsing and Searching



Radio source and channels of multiple stations are available.

You can also browse files and folders stored on your smartphone and utilize a variety of music apps with on-screen control of a smartphone.

Advanced Audio Settings* **NEW**

* DEH-X7850BT, FH-X785BT and MVH-X585BT only.



Dedicated interface is available for Crossover filter setting/Time Alignment/ Speaker Level setting.

EQ Setting **NEW**



CONNECTIVITY

Spotify® **NEW**

- DEH-X7850BT DEH-X4950BT DEH-X3950BT DEH-X2950UI DEH-X5 DEH-X1 FH-X785BT MVH-X585BT MVH-X395BT
MVH-X195UI* MVH-X3 *Compatible with iOS only.



Spotify® gives you instant access to millions of songs. With support for Spotify®, you can control the Spotify® app on your smartphone via your car receiver's interface.



CONNECTIVITY

Media App Control*



For iPhone and iPod:

All Audio Receivers Compatible with iPod and iPhone (Except DEX-P99RS)

For Android Phone:

All Audio Receivers Compatible with Certain Android Phones (Except DEH-X9650SD, DEH-X7750UI, FH-X575UI and MVH-85UB)

- Use music apps stored in your iPod, iPhone or Android phone for listening through the car speakers.
- Fast forward and reverse can be operated through the receiver.
- Media App Control boots up as a music source for quicker access to iPod, iPhone or Android phone app control.

*For Android Phone, DEH-X4850FD, DEH-X2950UI, DEH-X1953UB, DEH-X1952UB, DEH-X1950UB(G), DEH-X1, FH-X385UB, MVH-X285FD, MVH-X195UI and DXT Series are required to be used through Pioneer ARC app.

Note: Not all apps will be compatible with Media App Control, which will provide limited, if any, control over the app.

App Mode for DEH-80PRS and DEH-9450UB.



USB Direct Control



For iPhone and iPod:

All Audio Receivers (Except DEH-X1953UB, DEH-X1952UB, DEH-X1950UB(G), DEH-155MP(G), FH-X385UB, MVH-85UB and DXT Series)

For Android Phone:

All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB and DEH-155MP(G))

Take advantage of a wired USB connection to the receiver. Sound stays clean and clear, and song, artist, time and album displays are user-friendly.



Built-in Bluetooth®



DEH-X9650BT DEH-X8750BT DEH-X7850BT DEH-X6850BT DEH-X4950BT DEH-X3950BT DEH-X5 FH-X785BT MVH-X585BT MVH-X395BT MVH-X3 MXT-X396BT

A Pioneer receiver with Built-in Bluetooth Wireless Technology not only makes Bluetooth hands-free function easy and safe to operate while driving—it also extends your enjoyment of wireless audio control and streaming.

Bluetooth Hands-Free Calling = HFP

Bluetooth Wireless Audio = A2DP, AVRCP

Bluetooth Hands-Free Calling

Direct Access to Bluetooth Menu

Use with Phone Pairing to transfer your entire phonebook* via Bluetooth at a single time to the receiver. Press the button for direct access to missed, dialed, received and called calling histories.

*Compatible phone with PBAP profile required.

Bluetooth Wireless Audio

Bluetooth Wireless Audio Source

Press the source button to select and enjoy Bluetooth wireless audio with A2DP compatible devices.

Bluetooth Wireless Audio

File Browsing (AVRCP Version 1.5)

All Audio Receivers Compatible with Bluetooth (Except DEH-X9650BT)

File Browsing can be used through AVRCP 1.5 version of Bluetooth. You can easily search songs in the browsing display.

Bluetooth Hands-Free Calling

Wide Band Speech (HFP Version 1.6)

All Audio Receivers Compatible with Bluetooth (Except DEH-X9650BT)

Frequency bandwidth is twice as great as in the previous model, for much clearer phone call sound quality.

Frequency Range Coverage



Auto Pairing

All Audio Receivers Compatible with Bluetooth

Connecting an iPhone to the receiver with a USB cable automatically opens a prompt for pairing the unit and iPhone.

Bluetooth Wireless Audio



Bluetooth Wireless Audio Control (AVRCP)

Press and quickly release button to skip to the next track and display track tag information. Press and hold button to fast forward or fast reverse during playback.

Bluetooth Hands-Free Calling



Preset Dial

Press and hold the button, and preset register function conveniently registers in memory up to 6 frequently called phone numbers from up to 3 cell phones, for extra-quick access.

Five Phones Pairing Memory NEW

DEH-X4950BT DEH-X3950BT DEH-X5 MVH-X395BT MVH-X3 MXT-X396BT

Pioneer's new audio receiver can pre-register connection information for up to five smartphones, so you don't have to register each phone before using it with Bluetooth connection.

Siri* Eyes Free Compatible



Siri Eyes Free

All Audio Receivers Compatible with Bluetooth

Smart voice control lets users access various iPhone functions to select music, make calls from a contact list, etc., without taking their eyes off the road.

*Siri is available on iPhone 4s or later, iPad with Retina display, iPad mini, and iPod touch (5th generation) and requires Internet access. Siri may not be available in all languages or in all areas, and features may vary by area. Cellular data charges may apply. Some features may not be available for all countries or all areas.

Two-Phone Full Time Connection

All Audio Receivers Compatible with Bluetooth (Except DEH-X9650BT)

You can connect two mobile phones (for personal and business use, for example) with the receiver, and an incoming call from either phone can be received without requiring manual switching.



Dual USB Ports



DEH-80PRS DEH-9450UB DEH-X9650BT DEH-X9650SD DEH-X7850BT MVH-X585BT

More connectivity adds more convenience and utilities. For example, you can listen to music from a USB device while charging your smartphone.

Illuminated USB Terminal



All Audio Receivers with Front USB Port

Glowing USB terminal brightens the car interior and are easy to identify as needed at night.



AUDIO

3-Way Network Mode NEW

DEH-80PRS DEH-X7850BT FH-X785BT MVH-X585BT

3-Way Network Mode allows you to connect (via three preouts) up to three external amplifiers, dedicated to driving high-, mid- and low-frequency ranges, respectively. The result: more distinct separation of the three frequency ranges, for more full, natural sound realizing more of each speaker's potential in a multi speaker system.



Hi-Volt RCA Preouts

DEX-P99RS DEH-80PRS DEH-9450UB DEH-X9650BT DEH-X9650SD

DEH-X8750BT DEH-X7850BT* DEH-X7750UI MVH-X585BT

Hi-VOLT

*GS model only

Hi-Volt RCA preouts incorporated throughout the Pioneer Audio receiver lineup help improve S/N (signal-to-noise) ratio.

13-Band Graphic EQ NEW

DEH-X7850BT FH-X785BT MVH-X585BT

With the 13-Band Graphic Equalizer, you will be able to adjust acoustic settings in greater detail, according to your preferences.

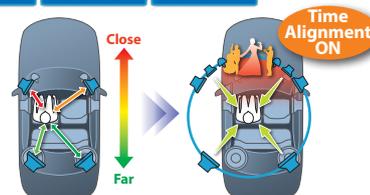


Time Alignment

DEX-P99RS* DEH-80PRS* DEH-X7850BT FH-X785BT MVH-X585BT

Utilizing Time Alignment function, you can adjust speaker output timing, so that sound from all speakers reaches the driver's ears in perfect sync.

* Auto Time Alignment



The different distances from each speaker to the driver cause the delay of sound.

Time Alignment makes all speakers sound as if they are virtually equidistant from the driver.

MIXTRAX

Innovative Pioneer technology that creates a Non-Stop MIX with a range of DJ-inspired effects.

MIXTRAX Benefit

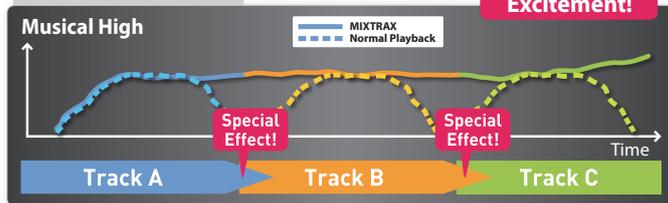
Pioneer applied its unique expertise to keep car entertainment flowing smoothly without interruption, so you can experience the intimate euphoria of listening to music that sounds as if a club DJ is there playing it.

MIXTRAX

MIXTRAX

Non-Stop Mix of tracks by auto special effect*

Uninterrupted Excitement!

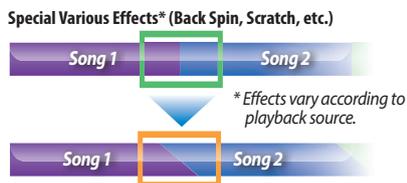


* Depending on the file/song, sound effects may not be enabled for adding.

MIXTRAX EZ

All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB, DEH-155MP(G) and MVH-85UB)

MIXTRAX EZ makes Non-Stop MIX Play and other control quick and easy without using MIXTRAX software. Tracks are joined by various random sound effects in Non-Stop MIX Play to keep the mood moving in full swing.



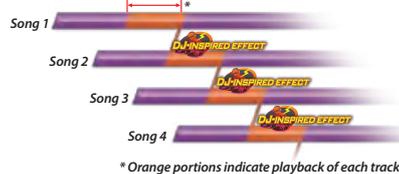
Short Playback Mode

All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB, DEH-155MP(G) and MVH-85UB)

You can choose a length of playback (60, 90, 120, 150, 180 sec., random, or off) to shorten track selections and speed up switching to following tracks in the mix.

Short Playback Mode

60"; 90"; 120"; 150"; 180"; Random, Off



* Orange portions indicate playback of each track.

Flashing Color*

DEH-X9650BT DEH-X9650SD DEH-X8750BT DEH-X7850BT DEH-X7750UI DEH-X6850BT DEH-X4950BT DEH-X2950UI DEH-X5 DEH-X1
FH-X785BT FH-X575UI MVH-X585BT MVH-X3

As MIXTRAX begins, lights start pulsing to the beat of the music, creating a mood-enhancing dance club-like lighting effect.

* Can be switched on or off as desired.

FLASHING COLOR

Sound

Illumination and Beat in Sync

Color

- Sound Level Mode synchronizes with sound signal level.
- Low Pass Mode synchronizes with bass sound.

Choose among six lighting color patterns for both Sound Level Mode (volume) and Low Pass Mode (bass). Colors vary according to levels.

Key illumination and display pulse to the beat of the music

When MIXTRAX is on, illumination color changes for the mode that has been selected and set.

Sound Level Mode						Sound Volume Level 8	Low Pass Mode						Bass Sound Level 8
Pattern 1	Pattern 2	Pattern 3	Pattern 4	Pattern 5	Pattern 6		Pattern 1	Pattern 2	Pattern 3	Pattern 4	Pattern 5	Pattern 6	
DEEP BLUE	POWERBLUE	ROSE	ROSE	LEMON	RED	LIGHT BLUE	WHITE	ROSE	ROSE	LEMON	RED		
SKYBLUE	SKYBLUE	PINK	LAVENDER	GOLD	LAVENDER	SKY BLUE	LIGHT BLUE	PINK	LAVENDER	YELLOW	PINK		
LIGHT BLUE	OCEANBLUE	LAVENDER	SKYBLUE	ORANGE	INDIGO	OCEANBLUE	ROYALBLUE	LAVENDER	INDIGO	GOLD	INDIGO		
SKY BLUE	ROYALBLUE	LAVENDER	OCEANBLUE	AMBER	SKYBLUE	BLUE	BLUE	INDIGO	ROYALBLUE	ORANGE	OCEAN		
BLUE	BLUE	INDIGO	ROYALBLUE	ORANGED	OCEANBLUE	BLUE	DEEP BLUE	INDIGO	BLUE	RED	BLUE		
DEEP BLUE	BLUE	INDIGO	BLUE	RED	BLUE	BLUE	DEEP BLUE	INDIGO	BLUE	RED	BLUE		
DEEP BLUE	BLUE	INDIGO	BLUE	RED	BLUE	BLUE	DEEP BLUE	INDIGO	BLUE	RED	BLUE		

AUDIO

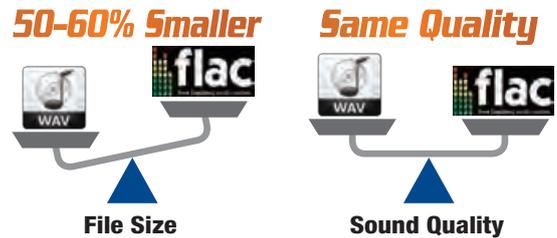
Support FLAC Codec*



DEH-X8750BT DEH-X7850BT DEH-X7750UI FH-X785BT MVH-X585BT MVH-95UB

New Pioneer audio receiver supports dramatically superior car audio experiences with amazingly brilliant reproduction of sound by FLAC (Free Lossless Audio Codec) files that are 50–60% smaller than WAV files, yet retain the integrity of original sound sources. Characterized by 48 kHz sampling frequency and 24-bit bitrate, the sound quality of FLAC file playback exceeds even that of CD playback.

* For the files stored in USB thumb drive.



Built-in High-Power 100 W x 4-Channel Class-FD Amplifier

Class FD

DEH-X4850FD MVH-X285FD

Enjoy more powerful sound than a conventional receiver with built-in amplifier can deliver. The Pioneer DEH-X4850FD and MVH-X285FD each incorporate a 100W x 4-channel Class-FD amplifier; require no outer amplifier box, for simple in-dash installation; and have circuitry exclusively designed to maintain exceptional audio quality.

Stable Power Output

For supremely stable output and sound quality, Pioneer's advanced amplifier technology built into these models controls input by monitoring current level output. The amplifier section is designed to prevent shutdown, ensuring consistent delivery of power regardless of the car battery's charge.

Dedicated Circuitry Designed to Dissipate Heat

For superior sound, exclusive circuitry is designed with heat-dissipating internal heatsink and cooling sheet between the printed circuit board and chassis.



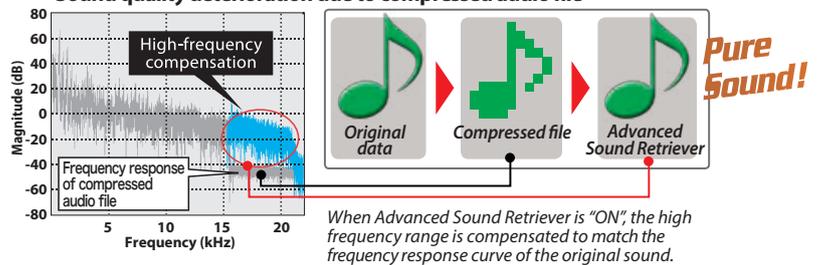
Large Capacitor and Plate-Type Heatsink

Advanced Sound Retriever

All Audio Receivers (Except MVH-85UB)

Hear the detail, warmth and clarity, the way the artist intended it, from all of your highly compressed MP3 and WMA files stored on USB device, iPod, Android phone and portable media players. By restoring data (especially higher frequencies) that tend to get lost in the digital compression process, Pioneer's Advanced Sound Retriever technology enhances audio reproduction nearly all the way up to 20 kHz frequencies.

Sound quality deterioration due to compressed audio file



When Advanced Sound Retriever is "ON", the high frequency range is compensated to match the frequency response curve of the original sound.

Advanced Sound Retriever for Bluetooth® Wireless Audio

DEH-X9650BT DEH-X8750BT DEH-X7850BT DEH-X6850BT DEH-X4950BT DEH-X3950BT
DEH-X5 FH-X785BT MVH-X585BT MVH-X395BT MVH-X3 MXT-X396BT

Advanced Sound Retriever also improves the sound of Bluetooth wireless audio streams.

5-Band Graphic EQ

All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-X7850BT, FH-X785BT and MVH-X585BT)

5-Band Graphic Equalizer allows more precise adjustment of acoustic settings to suit the car's interior conditions, your personal preferences and the sound mood that you seek.



Specialized Audio Parts

DEH-9450UB DEH-X9650BT DEH-X9650SD

Our engineers perform listening tests with expert care to incorporate specially designed parts that make for superior audio quality. Take Pioneer's new receiver. Its high-capacitance audio capacitor has particularly strong influence on audio signal input for higher performance sound reproduction. Audio control functions like 5-band GEQ and LPF/HPF take advantage of electronic circuitry that improves sound quality and minimizes analog signal degradation.



High-capacitance capacitor for audio (DEH-9450UB only)



Electronic volume control IC for Audio



AUDIO



Music Browser

DEH-80PRS DEH-9450UB DEH-X9650BT DEH-X9650SD DEH-X8750BT DEH-X7750UI

Using audio file tag information, Pioneer's built-in Music Browser automatically lists tunes alphabetically by Artist, Album, Song or Genre. Alphabetical search makes it fast and easy to access whatever tune you want from a big archive.

Conventional
No alphabetical song search. Folder and Song file appear in the same layer.

Menu Tree

- Artists
 - All
 - Artist 1
 - Artist 2
- Albums
 - All
 - Album 1
 - Album 2
- Songs
 - Song 1
 - Song 2
 - Song 3
- Genre
 - Song 1
 - Song 2
 - Song 3

Speedy access to desired song

* All in easy-to-find alphabetical order

Alphabetical Search

This function helps you find and access a tune quickly by its initial title letter.

DISPLAY

Widened 13-digit + 1 Two-Line Display NEW

DEH-X7850BT FH-X785BT MVH-X585BT

The widened 13-digit + 1 two-line display can show more of the information that you want, especially on its main (second-row) line, and is easily visible from the driver's seat.

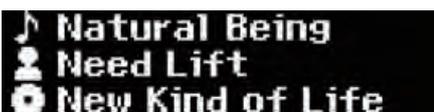
- This dot-matrix information area can show:
 - Artist/Album/Song icon
 - EQ while playing music
 - Icon for smartphone link
- The main segment area is located on the second line which contributes to the visibility from a driver's sheet.



Full Dot 3-Line LCD Display FULL DOT LCD

DEH-80PRS DEH-9450UB DEH-X9650BT DEH-X9650SD DEH-X8750BT DEH-X7750UI

The Full Dot LCD Display allows you to scroll through your iPod with greater ease, displaying up to three lines in list mode.



DEH-X8750BT Display

Larger 2-Line VA LCD Display

DEH-X6850BT FH-X385UB

The larger 2-line VA LCD display improves visibility and incorporates finely balanced font to keep text easy to read.

Main Display (13-Character) & Sub Display



Large display size: 12.9 mm x 83.9 mm

1-Line 13-Character VA LCD Display

DEH-X4950BT DEH-X4850FD DEH-X3950BT DEH-X2950UI DEH-X1953UB DEH-X1952UB DEH-X1950UB(G) DEH-X5
DEH-X1 MVH-X395BT MVH-X285FD MVH-X195UI MVH-X3 DXT Series MXT-X396BT

In addition to the VA LCD's high contrast and wide viewing angle, its display width has been expanded to accommodate up to 13 characters and allows more information to be more visible.



Large display size: 12.1 mm x 74.7 mm

Bluetooth profile A2DP HFP
Bluetooth® status icons displayed.

VA LCD

The receiver display incorporates VA LCD for higher contrast and visibility from a wide viewing angle. Characters on display are easy to read from the driver's viewpoint.

FH-X575UI



All Audio Receivers

(Except DEX-P99RS, DEH-80PRS, DEH-9450UB, DEH-X9650BT, DEH-X9650SD, DEH-X8750BT, DEH-X7850BT, DEH-X7750UI, DEH-155MP(G), FH-X785BT, MVH-X585BT and MVH-85UB)



High Contrast
60% better contrast



ILLUMINATION

Separated Dimmer Setting NEW

DEH-X4950BT DEH-X2950UI DEH-X5 DEH-X1 MVH-X3

Brightness of main display and brightness of key illumination zones can be adjusted independently of each other, to levels from 1 to 10.



Separated Color Customization

DEH-80PRS DEH-9450UB DEH-X9650BT DEH-X9650SD DEH-X8750BT DEH-X7850BT DEH-X7750UI DEH-X6850BT
 DEH-X4950BT DEH-X2950UI DEH-X5 DEH-X1 FH-X785BT FH-X575UI MVH-X585BT MVH-X3

Separated Color Customization lets the user match their receiver illumination to their interior lighting. Color of key illumination and display can be selected separately.



Brightness Setting

All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB, DEH-155MP(G) and MVH-85UB)

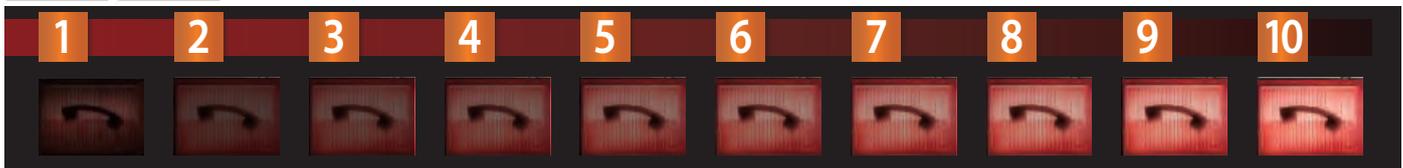
Brightness can be set to any of five or ten different levels to suit various viewing conditions, whether during the day, at night, etc. This allows for excellent visibility regardless of the situation.

5-Step Brightness Setting

DEH-X9650BT DEH-X9650SD

10-Step Brightness Setting

All Audio Receivers Compatible with Brightness Setting (Except DEH-X9650BT and DEH-X9650SD)



Note: The range of settings can vary, depending on whether Dimmer is on or off.

Illumination Effect

All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB, DEH-155MP(G) and MVH-85UB)

Illumination fades in and out at various times, such as when ACC power is turned on and off*, a CD is being loaded or ejected, or an incoming call is being received on a Bluetooth® receiver.

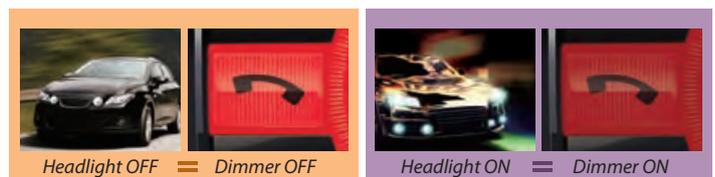
* For the following receivers, Illumination Effect can be activated for only ACC power on/off.
 DEH-X4950BT/DEH-X4850FD/DEH-X2950UI/DEH-X1953UB/DEH-X1952UB/DEH-X1950UB(G)/DEH-X5/
 DEH-X1/MVH-X395BT/MVH-X285FD/MVH-X195UI/MVH-X3/DXT Series/MXT-X396BT



Illumination Line

DEH-X8750BT DEH-X7850BT DEH-X7750UI DEH-X6850BT DEH-X4950BT DEH-X2950UI
 DEH-X5 DEH-X1 FH-X785BT FH-X575UI MVH-X585BT MVH-X3

Car's Headlight On/Off automatically links with Dimmer's On/Off. When driving, user doesn't need any extra operation to change Dimmer.



Illumination Timer

All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB, DEH-X9650BT, DEH-X9650SD and DEH-155MP(G))

You can set Dimmer On and Off* to a particular time (to go home and to commute, respectively, for example) according to your lifestyle, so you do not need to manually activate or deactivate the dimmer repeatedly at the same regular time.

* Times for Dimmer On and Off can be separately adjusted in 10-minute intervals and set.



DESIGN

Prism-cut Rotary Volume Control NEW

DEH-X4950BT DEH-X2950UI DEH-X5 DEH-X1 MVH-X3

Unique prism-cut rotary volume control can be illuminated in your choice of color to enhance the car cabin's mood.



Smaller Gap for Easier Viewing NEW

DEH-X7850BT FH-X785BT MVH-X585BT

The gap between the LCD and its protective acrylic panel is reduced so drivers gain a clearer, more direct view of operation information on the receiver display.

Previous model: bigger gap



New model: smaller gap



Auto Flap Face

DEX-P99RS DEH-9450UB

Highly functional, high-quality face panel design features a smoothly motorized auto flap and clear front interface.



Flap Face Design

DEH-80PRS DEH-X9650BT DEH-X9650SD

The CD slot is concealed behind the front panel flap, so the receiver's face looks extra-sleek and elegant.



Lever Key

For the sake of safety, a lever key gives a driver more assured operability and smoother control of various functions and settings.



Horizontal lever key

DEH-80PRS DEH-9450UB DEH-X9650BT DEH-X9650SD



360-degree lever key

DEH-X8750BT DEH-X7750UI



Anti-Dust Design*

All Audio Receivers (Except DEX-P99RS, MVH-X585BT, MVH-X395BT, MVH-X285FD, MVH-X195UI, MVH-85UB, MVH-X3 and MXT-X396BT)



Pioneer heat release structure can reduce ventilation holes & clearance gaps. The results are optimally efficient heat dissipation and prevention of entry of dust that can cause malfunction.

Anti-Dust Structure Image



Higher Reliability

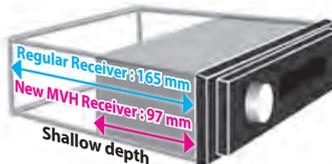
Non-anti-dust design

Anti-dust design

Compact Chassis Design

MVH-X395BT MVH-X195UI MVH-85UB MVH-X3 MXT-X396BT

The shallow depth of the chassis of new MVH series receiver provides for optimal ease and flexibility of installation.



OTHERS

USB Quick Charge for Android (CDP) NEW

DEH-X4950BT DEH-X3950BT* DEH-X2950UI DEH-X1953UB DEH-X5 DEH-X1

*GS model only

Pioneer's new audio receiver has a charging downstream port (CDP) providing up to 1.5 amperes to give an Android smartphone a quick charge.



OTHERS

USB Source Change Function

All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB, DEH-X9650BT, DEH-X9650SD, DEH-X8750BT, DEH-X7750UI, DEH-155MP(G) and FH-X575UI)

When the audio receiver is connected to a media player, smartphone or other device via USB, you can choose to set the USB Source Change function ON or OFF.

ON The music source automatically changes to the connected source device.

OFF The music source being played on the receiver doesn't change, allowing the connected smartphone or portable media player to recharge while the music plays.



Multi-Language Display

All Audio Receivers (Except DEH-155MP(G) and FH-X575UI)

Pioneer audio receivers feature Multi-Language Display.

Asia/Middle East/Oceania

English/Spanish/Portuguese/Arabic/Persian

GS*

Central America/Latin America

English/Spanish/Portuguese

CS*

Asia/Middle East/Oceania/ Central America/Latin America

English/Spanish/Portuguese

ES*



* Language differs according to region and is specifically indicated on packaging carton. Ask local distributor for details regarding any exceptions that may exist.

MULTI-LANGUAGE DISPLAY

Preset Steering Wheel Control*

All Audio Receivers (Except DEX-P99RS, DEH-80PRS, DEH-9450UB, DEH-X9650BT, DEH-X9650SD and DEH-155MP(G))

You can now use buttons on your car steering wheel to control certain car receiver functions.

Setup is simple. Just choose your car brand name in the receiver's PRESET setting interface to automatically ensure compatibility of your vehicle's original steering wheel controller with the system.

* Available in GS and ES models. Required cable is not included, and must be purchased separately. Please contact a nearby local Pioneer Service Center or branch for details.

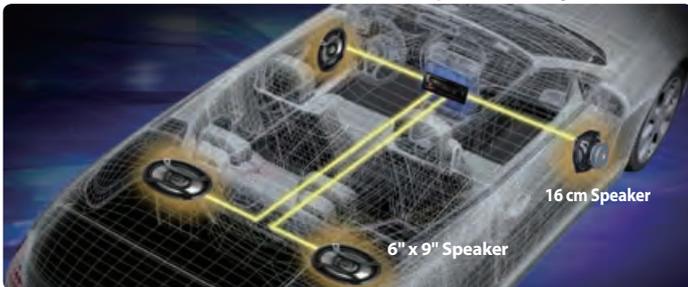


Package System Configurations

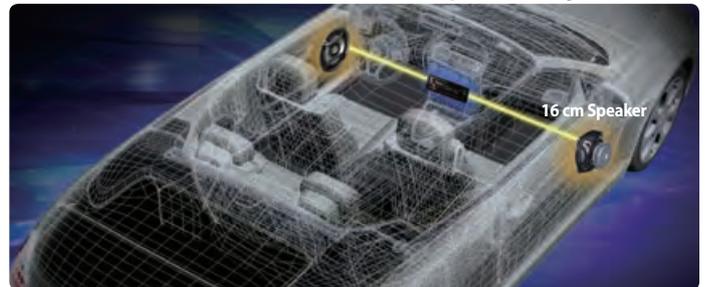
DXT-X1969UB DXT-X196UB MXT-X396BT

Pioneer's new package models containing an audio receiver and bundled speakers are ideal for entry-level customers who want to upgrade their car audio system with ease.

DXT-X1969UB: Audio Receiver + 16 cm & 6" x 9" Speaker Package



DXT-X196UB/MXT-X396BT: Audio Receiver + 16 cm Speaker Package



DEH-155MP/DEH-155MPG

Audio Receiver with MP3 Playback, Remote Control, and Front AUX-In



DEH-155MP



DEH-155MPG



Rear Panel



Main Features

- CD Player
- LCD Display (12-Character)
- LED Backlight
- AUX Input (Front)
- MP3/WMA/WAV Playback
- Advanced Sound Retriever
- MOSFET 50W x 4
- Supertuner® III D
- Shortwave Tuner
- RDS
- RCA Preout x 1 (2 V)
- 5-Band Graphic EQ
- Anti-Dust Design
- Wired Remote Control
- Display Off Mode
- Detachable Face Security™
- Rotary Volume Control
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Pioneer on Amplifier Development — toward higher reliability and sound quality

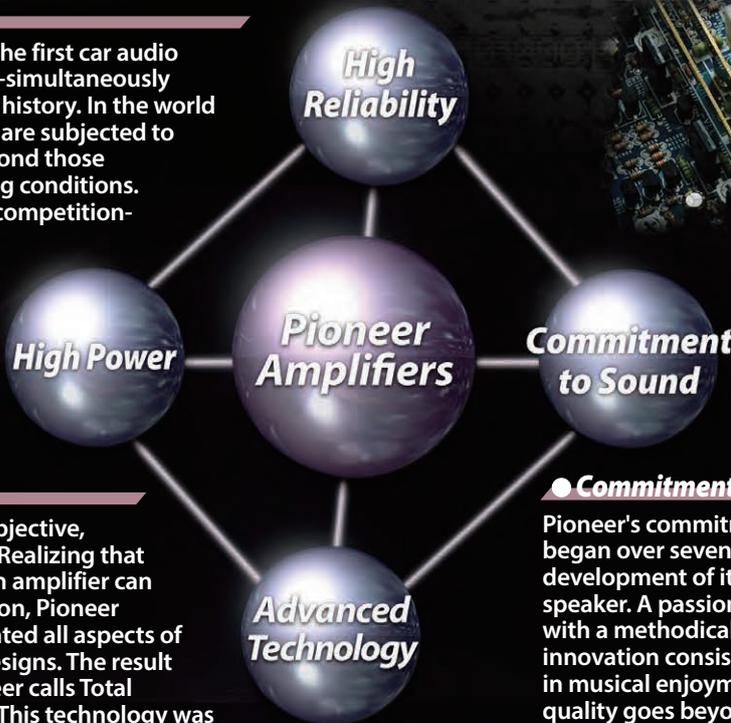


● High Power

Pioneer's amplifiers powered the first car audio system to exceed 180 decibels—simultaneously breaking records and creating history. In the world of SPL competition, amplifiers are subjected to extreme conditions—way beyond those experienced in normal listening conditions. Pioneer's award-winning and competition-proven amplifiers deliver an incomparable combination of power, technology, reliability and expertise that's perfect for the consumer and unlike any competitor.

● High Reliability

An amplifier's circuitry needs to be durable to handle the harsh automotive conditions it'll encounter such as heat, vibration, and voltage fluctuations. Pioneer systematically designs each of its car audio amplifiers for reliable, durable, and rugged performance. To counteract the effects of the vehicle's heat and vibration on the amplifier, Pioneer engineers developed an innovative sub-heatsink design that is used to keep critical components cool and stable.



● Advanced Technology

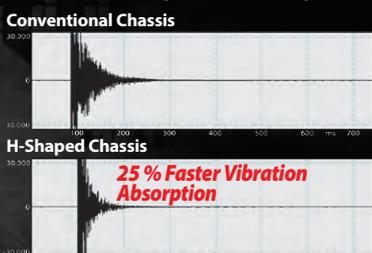
While musical taste may be subjective, accurate music response isn't. Realizing that component vibration within an amplifier can create audible musical distortion, Pioneer engineers methodically evaluated all aspects of amplifier circuit and chassis designs. The result was the creation of what Pioneer calls Total Vibration Control Technology. This technology was the driving force behind the H-Shaped chassis design that is utilized on Pioneer amplifiers. This unique chassis helps quell vibrations 25% faster than conventional designs, ensuring accurate musical response—regardless of the type of music.

● Commitment to Sound

Pioneer's commitment to sound quality began over seventy years ago with the development of its first home audio speaker. A passion for audio combined with a methodical approach to innovation consistently deliver the best in musical enjoyment. Truly great sound quality goes beyond measurement, as there is no specification that truly defines an awesome musical experience. Dedication to sound quality is at the heart of Pioneer's ongoing quest for musical perfection.



Vibrational Absorption Time Comparison



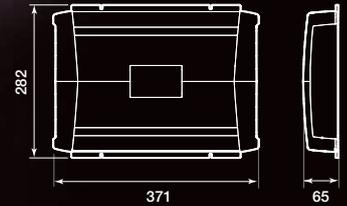
PRS-A900



PRS-A900

400 W MAX.

4-Channel Bridgeable Amplifier with Filter-less Design for the Purest Sonic Reproduction Possible



Key Selling Points

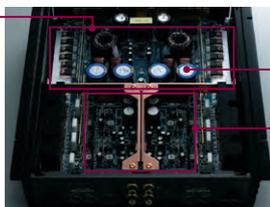
- Ultimate in distortion-free sound quality and elimination of influence of vibration and noise using a "H" form chassis along copper-plated power transistor mounts.
- Left and right channel independent power supplies direct electric current with superior stability and effectiveness.
- Strictly tested and tuned high capacity power supply capacitor provides enhanced stability in driving high-power output.

Go for Higher-Grade Circuits and Parts

Advanced Signal Path Design

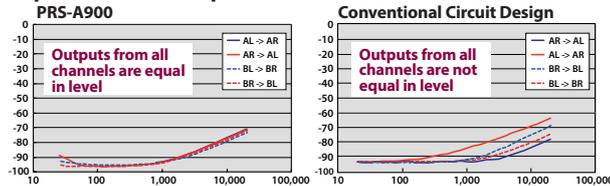
Left and Right Channel Independent Power Supply

Large, independently mounted DC-DC converter power supplies direct electric current with superior stability and effectiveness. The DC-DC power supply is mounted away from the PRS-A900's amplification circuitry and isolated with dividers to prevent jitter noise and to improve the signal to noise (S/N) ratio.



L/R symmetric circuit layout improves channel separation.

Superior Channel Separation

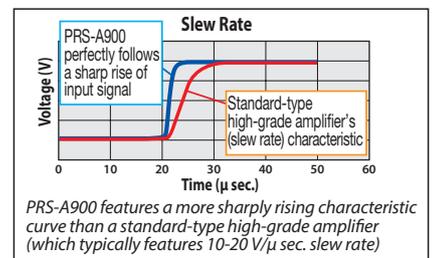


PRS-A900: Excellent separation among all channels

Superior Selection of Internal Components

Current Feedback-Type Amplifier Circuit

Distinctive characteristics of this circuit include: high slew rate of 70 V/μ sec. which allows for precise output gain while perfectly following a sharp rise of input signal; wide range linear amplification of input signal, with less tendency to overshoot/undershoot; and very low distortion while driving high output power.



Pioneer's Unique High-Capacity Power Supply Capacitor for Audio

Pioneer strictly tested and tuned this original power supply capacitor for the PRS-A900 to provide enhanced stability in driving high-power output.

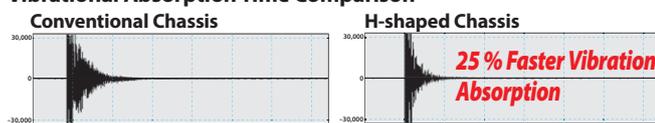


The Ultimate in Distortion-Free Sound Quality

H-shaped Chassis

The conditions inside an automobile aren't always conducive to faithful audio reproduction. The natural vibrations of a vehicle as it cruises down the road can be transferred to the components inside an amplifier—causing audible distortion. Advanced resonance frequency testing on various back cover chassis designs led to Pioneer's development of the "H" form chassis, which stabilizes the amplifier and its internal componentry by absorbing outer vibration with superior speed.

Vibrational Absorption Time Comparison



Copper-Plated Power Transistor Mounts

Eliminates influence of vibration and noise, and cuts even slight high-range sound distortion.

Specifications

	PRS-A900
Number of Channels	4/3/2
Max. Wattage (4 Ω)	100 W x 4
Max. Wattage Bridged (4 Ω)	200 W x 2
Wattage RMS (4 Ω <= 1% THD+N)	50 W x 4
Wattage RMS (2 Ω <= 1% THD+N)	50 W x 4
Wattage RMS Bridged (4 Ω)	100 W x 2
Frequency Response	10 Hz to 100 kHz
Total Harmonic Distortion (1 kHz, 4 Ω)	<0.003 %
Signal-to-Noise Ratio (IHF-A Weighted, at 1 kHz)	>108 dB
Dimensions (W x H x D)	371 mm x 65 mm x 282 mm

PRS-D800

600 W MAX.

Class-FD 2-Channel Bridgeable Amplifier

Class FD **RCA INPUT**



Key Selling Points

- **Audio quality benefits from careful parts selection and exacting design precision.**
- **Extra compact design makes for easy installation without compromising sound quality.**
- **Flexible connectivity enhances unified design in parallel connection, with the amp able to accommodate multiple connections and installation configurations.**

Audio Quality

Class-FD Amplifier

Class FD

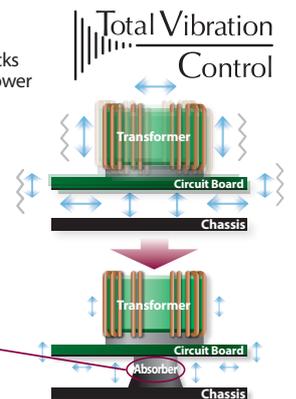
High Performance High-Slew Rate Operational Amp

The PRS amplifier includes Linear Technology Corporation's high-performance high-slew rate operational amplifier in the circuitry that generates PWM (Pulse Width Modulation) signals from analog input signals with amazing accuracy. The result: very linear music reproduction with low distortion rate.



TVC (Total Vibration Control) Concept

Anti-vibration material under the transformer thoroughly eliminates vibration that normally blocks sound when high current is applied, enhancing power flow stability, minimizing distortion, and raising signal-to-noise ratio.



Electrolytic Capacitor for Audio

Extensive listening tests went into selecting and mounting an audio capacitor for optimal audio frequency response and dynamic range that are characteristics of high-end sound tone and detail.



Vibration of the transformer, when transmitted to the circuit board, can compromise sound quality.

The circuit board is absorbed and transformer vibration is suppressed, preventing sound degradation.



OFC (Oxygen-Free Copper) Wire Coil for Output

The LPF output of the Class-D amplifier features OFC wire coil for low DC (Direct Current) resistance and low loss, so that speakers can be driven strongly to produce tight bass and clear, vivid mid- and high-range sound.



Compact Design

Very Compact Design for Extra Flexibility of Installation

Functionally separated circuit layout and four-layer circuit board are designed to integrate mounted parts, reduce circuit impedance, and maintain high performance and sound quality. The design's efficient heat dissipation is ideal for an amplifier that is compact enough to be installed in various places in a car.



Slimmed Down 58%

Specifications

	PRS-D800	
Number of Channels	2/1	
Max. Wattage (4 Ω)	250 W x 2	
Max. Wattage Bridged (4 Ω)	600 W x 1	
	Wattage RMS (4 Ω <= 1% THD+N)	125 W x 2
	Wattage RMS (2 Ω <= 1% THD+N)	150 W x 2
	Wattage RMS Bridged (4 Ω)	300 W x 1
Frequency Response	10 Hz to 30 kHz	
Total Harmonic Distortion (1 kHz, 4 Ω)	<0.004 %	
Signal-to-Noise Ratio (IHF-A Weighted, at 1 kHz)	>105 dB	
Dimensions (W x H x D)	255 mm x 50 mm x 104 mm	

GM-D9605 2,000 W MAX.

Class-FD* 5-Channel Amplifier



* For only A-Ch. and B-Ch.



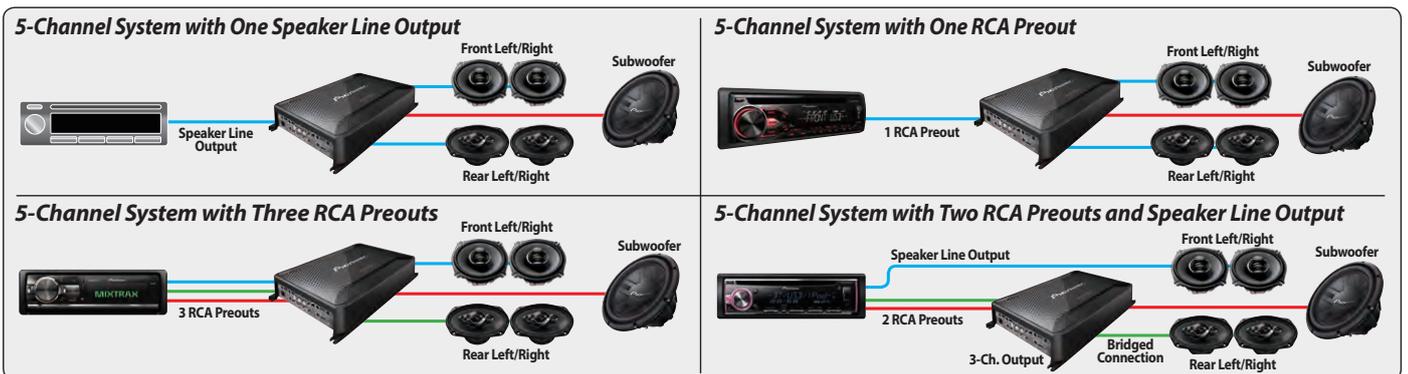
Key Selling Points

- Various settings and connections expand your choice of system configuration.
- The versatile 5-channel capability of the GM-D9605 features dedicated subwoofer output for ample power to drive strong bass.
- Very efficient and compact, the Class-D amp is capable of amazingly high power output.

Flexible Installation and Connectivity

A-Channel, B-Channel and Subwoofer-Channel outputs of the GM-D9605 can be matched to one, two or three preouts of a receiver. The GM-D9605 is also excellent for speaker line output connections and expanding a factory-equipped subwoofer-less car audio system into a 5-channel output system.

System Connection Examples with GM-D9605 and Receiver



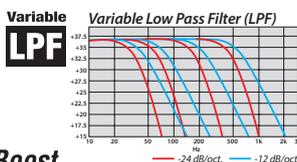
5-Channel Amplifier with Dedicated Output for Subwoofer

• Unlike conventional 5-channel amplifiers, the Pioneer GM-D9605 has dedicated large block terminals to drive a subwoofer with plenty of power.



Block terminal for subwoofer

• Variable low pass filter (LPF) has two types of slopes, selectable according to subwoofer characteristics and personal listening preferences.



• GM-D9605 is equipped with A/B-SW input select.

• Bass Boost Remote lets you adjust bass level from 0 to 18 dB by wired controller.



Specifications

	GM-D9605
Number of Channels	5/4/3/2
Max. Wattage (4 Ω)	150 W x 4 (A-/B-Ch.)/700 W x 1 (Subwoofer-Ch.)
Max. Wattage (2 Ω)	200 W x 4 (A-/B-Ch.)/1,200 W x 1 (Subwoofer-Ch.)
Max. Wattage Bridged (4 Ω)	400 W x 2*
Wattage RMS (4 Ω <= 1% THD+N)	75 W x 4 (A-/B-Ch.)/350 W x 1 (Subwoofer-Ch.)
Wattage RMS (2 Ω <= 1% THD+N)	100 W x 4 (A-/B-Ch.)/600 W x 1 (Subwoofer-Ch.)
Wattage RMS Bridged (4 Ω)	200 W x 2*
Frequency Response	10 Hz to 50 kHz (A-/B-Ch.)/ 10 Hz to 500 Hz (Subwoofer-Ch.)
Total Harmonic Distortion (1 kHz, 4 Ω)	<0.05% (A-/B-Ch.: 1 kHz/Subwoofer-Ch.: 100 Hz)
Signal-to-Noise Ratio (IHF-A Weighted)	>94 dB
Dimensions (W x H x D)	315 mm x 60 mm x 200 mm

* Bridgeable for A-ch. and B-ch. only.

Champion series

GM-D9604 1,600 W MAX.

Class-FD 4-Channel Bridgeable Amplifier with Bass Boost Remote

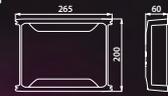
Class FD Variable LPF Variable HPF RCA IN/OUT
SPEAKER INPUT Bass Boost Remote 1ohm



GM-D8604 1,200 W MAX.

Class-FD 4-Channel Bridgeable Amplifier with Bass Boost Remote

Class FD Variable LPF Variable HPF RCA IN/OUT
SPEAKER INPUT Bass Boost Remote 1ohm



GM-D9601 2,400 W MAX.

Class-D Mono Amplifier with Bass Boost Remote

Variable LPF RCA IN/OUT SPEAKER INPUT Bass Boost Remote 1ohm



GM-D8601 1,600 W MAX.

Class-D Mono Amplifier with Bass Boost Remote

Variable LPF RCA IN/OUT SPEAKER INPUT Bass Boost Remote 1ohm



Key Selling Points

- Very efficient and compact, the Class-D amp is capable of amazingly high power output.
- Highly stable, durable circuitry enables 1Ω connection with continuous output.
- Variable LPF and HPF enhance system tuning flexibility. Bass Boost Remote lets listeners optimize the bass level according to preference and type of music being played.

1ohm

Variable LPF Variable HPF Bass Boost Remote

Growing Power, Shrinking Size

Pioneer's new extra-efficient Class-D digital amplifiers mark a dramatic improvement in power output capability, yet are much smaller than Class-AB amplifiers. That makes them more versatile in terms of installation as well as performance.

Dramatically Higher Power Output

Conventional Class-D Amplifier vs. New Class-D Amplifier

GM-D9500F: 800 W max. vs. GM-D8604 1,200 W max.

GM-D8500M: 1,200 W max. vs. GM-D9601 2,400 W max.

GM-D7500M: 800 W max. vs. GM-D8601 1,600 W max.

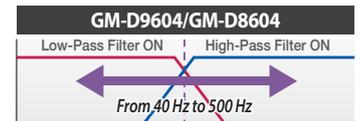
More Impact Made More Compact
Slimmed down 50%*
* Measured by cubic volume.



For Extra Versatility

Variable LPF/HPF

For extra flexibility, variable LPF and HPF make audio frequency more adjustable according to subwoofer characteristics and personal listening preferences.



GM-D9604 GM-D8604 Variable LPF/HPF: 40 Hz-500 Hz
GM-D9601 Variable LFP: 40 Hz-240 Hz
GM-D8601 Variable LFP: 40 Hz-240 Hz

Bass Boost Remote

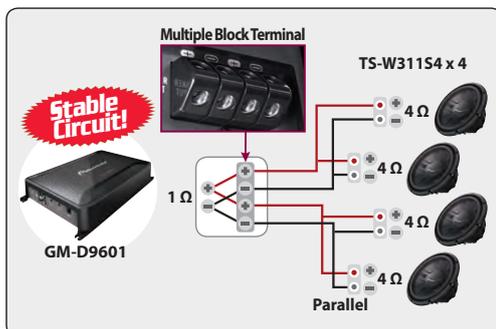
Every new Class-D amplifier has a Bass Boost Remote Controller for optimal bass level adjustment according to listening preferences and music characteristics.



Highly Reliable Circuit Design

To prevent circuit shutdown, Pioneer's new digital amplifier circuit "Protection Control System" senses its internal temperature and automatically moderates input level accordingly. Stable, durable circuitry lessens the risk of high input power for the unit to achieve 1 Ω connection. This design enhances the flexibility to connect multiple subwoofers to a system.

1ohm



Specifications

	GM-D9604	GM-D9601	GM-D8604	GM-D8601
Number of Channels	4/3/2	Mono	4/3/2	Mono
Max. Wattage (4 Ω)	260 W x 4	1,000 W x 1	200 W x 4	600 W x 1
Max. Wattage (2 Ω)	400 W x 4	1,600 W x 1	300 W x 4	1,000 W x 1
Max. Wattage (1 Ω)	260 W x 4	2,400 W x 1	250 W x 4	1,600 W x 1
Max. Wattage Bridged (4 Ω)	800 W x 2	—	600 W x 2	—
Wattage RMS (4 Ω ≤ 1% THD+N)	130 W x 4	500 W x 1	100 W x 4	300 W x 1
Wattage RMS (2 Ω ≤ 1% THD+N)	200 W x 4	800 W x 1	150 W x 4	500 W x 1
Wattage RMS (1 Ω ≤ 1% THD+N)	130 W x 4	1,200 W x 1	125 W x 4	800 W x 1
Wattage RMS Bridged (4 Ω)	400 W x 2	—	300 W x 2	—
Frequency Response	10 Hz to 50 kHz	10 Hz to 240 Hz	10 Hz to 50 kHz	10 Hz to 240 Hz
Total Harmonic Distortion (1 kHz, 4 Ω)	<0.05 %	<0.5 % (100 Hz)	<0.05 %	<0.5 % (100 Hz)
Signal-to-Noise Ratio (IHF-A Weighted)	>95 dB	>100 dB	>95 dB	>100 dB
Dimensions (W x H x D)	315 mm x 60 mm x 200 mm	315 mm x 60 mm x 200 mm	265 mm x 60 mm x 200 mm	265 mm x 60 mm x 200 mm

GM-D1004

400 W MAX.

Class-FD 4-Channel Amplifier

Class FD LPF HPF RCA INPUT SPEAKER INPUT

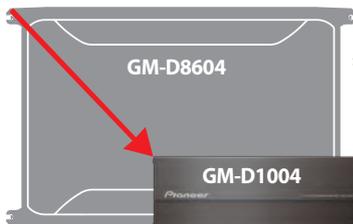


Key Selling Points

- Compact design makes for easy installation behind the center console or inside the console box.
- Achieves higher power output despite compact dimensions.
- GM-D1004 incorporates various outstanding features including TVC (Total Vibration Control) Concept, Automatic Signal Sensing and Turn-ON, and others.

Ultra Compact Design

Despite compact dimensions, high power 100 W x 4-ch. achieves maximum output to deliver clear, powerful sound even at loud volumes.



86% Smaller*
* Measured by cubic volume.

Easy Installation

Electric power is supplied to the amplifier behind the center console or inside the console box, simplifying wiring and installation so you can upgrade sound quality from a system using a receiver's built-in amplifier.

Upgraded

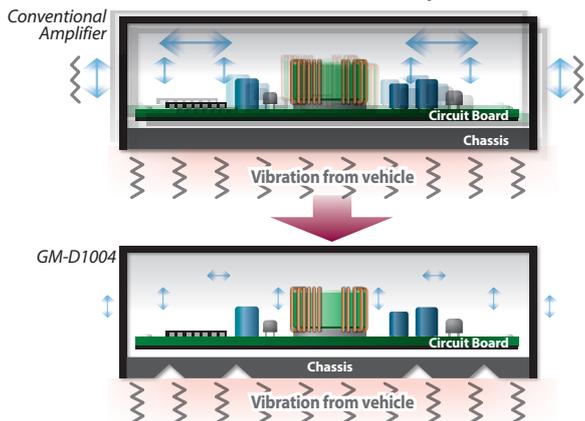


TVC (Total Vibration Control) Concept

Grooves on bottom of chassis suppresses vibration that normally blocks sound when high current is applied, enhancing power flow stability, minimizing distortion, and raising signal-to-noise ratio.

Total Vibration Control

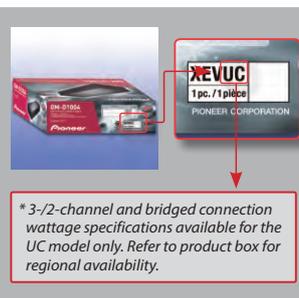
TVC (Total Vibration Control) Conceptualization



Automatic Signal Sensing and Turn-ON

When connected to an OEM receiver or a receiver without RCA input using speaker wire, the amplifier is turned on at the same time as the receiver. Pioneer's amplifiers automatically detect an input signal and select an input signal mode between the RCA level and the speaker level.

Specifications



	GM-D1004
Number of Channels	4/3*/2*
Max. Wattage (4 Ω)	100 W x 4
Max. Wattage (2 Ω)	100 W x 4
Max. Wattage Bridged (4 Ω)	200 W x 2*
Wattage RMS (4 Ω ≤ 1% THD+N)	45 W x 4
Wattage RMS (2 Ω ≤ 1% THD+N)	45 W x 4
Wattage RMS Bridged (4 Ω)	90 W x 2*
Frequency Response	10 Hz to 40 kHz
Total Harmonic Distortion (1 kHz, 4 Ω)	<0.05 %
Signal-to-Noise Ratio (IHF-A Weighted)	>90 dB
Dimensions (W x H x D)	181 mm x 38 mm x 64 mm

GM-A6704

NEW 1,000 W MAX.

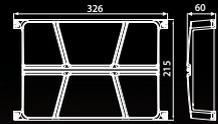
4-Channel Bridgeable Amplifier with Bass Boost



GM-A4704

NEW 520 W MAX.

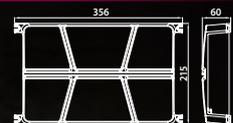
4-Channel Bridgeable Amplifier



GM-A5702

NEW 1,000 W MAX.

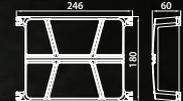
2-Channel Bridgeable Amplifier with Bass Boost



GM-A3702

NEW 500 W MAX.

2-Channel Bridgeable Amplifier



Key Selling Points

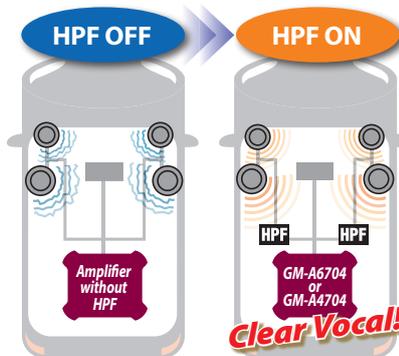
- Higher power output contained in compact dimensions.
- Outstanding features include Bass Boost (GM-A6704/GM-A5702), Automatic Signal Sensing & Turn-On, and others.
- Variable high pass filter (for high-frequency-range sound) enhances tuning flexibility and sonic clarity. (GM-A6704/GM-A4704)

Variable HPF

GM-A6704/GM-A4704

Variable HPF (A-Ch.) allows for frequency adjustment from 40 Hz to 500 Hz and greater car audio system flexibility. Adjustability of the high pass filter (A-Ch.) enables optimal fine-tuning of front-door-mounted speakers' settings according to car door structure.

Variable HPF



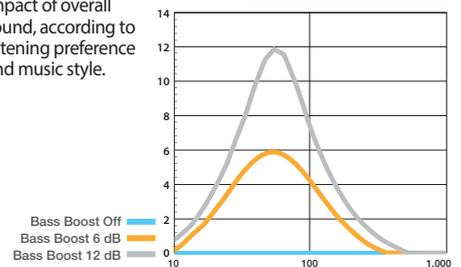
Bass Boost

GM-A6704/GM-A5702

You can choose among 0 dB, 6 dB, and 12 dB Bass Boost amplification levels according to preference.

This control can enhance the balance and impact of overall sound, according to listening preference and music style.

Bass Boost



Variable HPF Crossover Frequency Image



Adjust HPF cutoff frequency flexibly according to front speaker characteristics and personal listening preference.

Automatic Signal Sensing and Turn-ON

Pioneer's amplifier automatically selects an input signal mode between the RCA level and the speaker level detecting an input signal. Further, when the receiver is turned on, the amplifier will automatically turn on. When connected with an OEM receiver or receiver without RCA input using speaker line, the amplifier has its power turned on in sync with the receiver.

Specifications

	GM-A6704	GM-A4704	GM-A5702	GM-A3702
Number of Channels	4/3/2	4/3/2	2/1	2/1
Max. Wattage (4 Ω)	170 W x 4	80 W x 4	300 W x 2	170 W x 2
Max. Wattage (2 Ω)	250 W x 4	130 W x 4	500 W x 2	250 W x 2
Max. Wattage Bridged (4 Ω)	500 W x 2	260 W x 2	1,000 W x 1	500 W x 1
Wattage RMS (4 Ω <= 1 % THD+N)	60 W x 4	40 W x 4	150 W x 2	60 W x 2
Wattage RMS (2 Ω <= 1 % THD+N)	95 W x 4	65 W x 4	240 W x 2	95 W x 2
Wattage RMS Bridged (4 Ω)	190 W x 2	130 W x 2	480 W x 1	190 W x 1
Frequency Response	10 Hz to 70 kHz			
Total Harmonic Distortion (1 kHz, 4 Ω)	<0.05 %	<0.05 %	<0.05 %	<0.05 %
Signal-to-Noise Ratio (IHF-A Weighted)	>95 dB	>94 dB	>96 dB	>95 dB
Dimensions (W x H x D)	356 mm x 60 mm x 215 mm	326 mm x 60 mm x 215 mm	356 mm x 60 mm x 215 mm	246 mm x 60 mm x 180 mm

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DELVE DEEPER

Applying the kind of innovation that made its SPL subwoofers world championship winners, Pioneer makes all of its subwoofers superior at delivering massive punch for maximum impact. With stunning dimensions of low-frequency depth, Pioneer achieves the ultimate technical knockout.



Champion series - PRO

Champion Series Subwoofer

Built on the strong foundation of the world's top-performing SPL subwoofer, Champion Series subwoofers broaden the reach of Pioneer's spirit and technology toward new horizons. Their reliability, power and capability to produce big, clear, distortion-free sound are simply incomparable in their class.



Shallow Subwoofer

Our line of shallow subwoofers are designed to provide wider installation options for a broad range of vehicles. These shallow-mount subwoofers feature unique design to deliver big bass performance like a full-size subwoofer, but in a compact design that can be installed either behind or under seats depending on the type of vehicle.



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Pioneer Official 3D Hologram

Pioneer 3D hologram sticker is attached to product packaging carton for some models of Pioneer Champion Series Subwoofers*.



Green images of 3D hologram logo

* Models TS-W3003D4, TS-W311D4, TS-W311S4, TS-W261D4, TS-W261S4 and TS-W311. In this Dealer Reference Guide, these particular subwoofers and 3D hologram logo appear as in examples below. The product that has a 3D hologram sticker attached to its packaging carton features this logo on product page. Please see product page for more details.

TS-W3003D4 2,000 W MAX.



30 cm (12") Champion Series PRO Subwoofer



Champion series - PRO

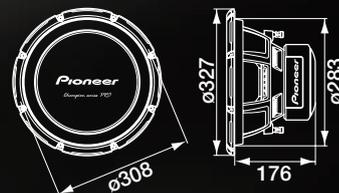


TS-W3003D4 2,000 W MAX.



Champion series - PRO

30 cm (12") Champion Series PRO Subwoofer



Key Selling Points

- **The ultimate performance heritage of Pioneer's Championship-winning SPL subwoofers.**
- **High rigidity IMPP™ composite seamless cone reproduces rich, true bass.**
- **Extraordinary structure of dual spiders, a dual-layer surround, a 4-layer overhung voice coil and double stacked magnets for greater excursion and linearity even at extremely high power input.**

TS-W3003D4 Cut View

IMPP™ Composite Seamless Cone

An extremely rigid yet lightweight cone is vital to prevent cone failure at high sound pressure levels. Pioneer's IMPP Composite Seamless Cones meet this need perfectly.

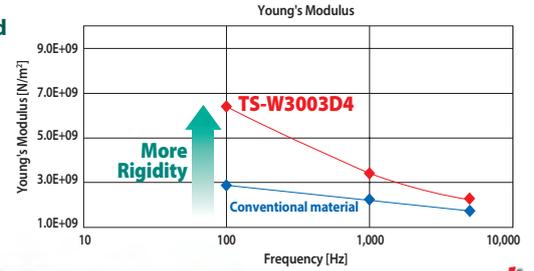
Highly Rigid Shaped Basket

Four ribbed arms strengthen the basket stiffness while body basket shape has been slimmed down.

More Rigid Basket!

Drive Cone for Louder Sound

Fiber material blended in the drive cone improves sound response.



Louder Bass!

Air Vent

The movement of air within the subwoofer is smoothly channeled for optimal ventilation to ensure a quick response and clear reproduction of bass.

Dual-Layer Surround Fiber Reinforced Elastic Polymer

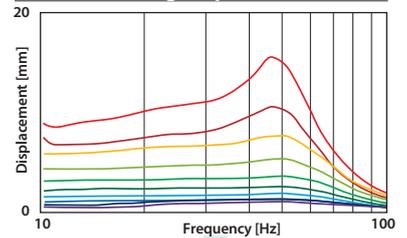
Dual Spider

Two spiders supporting the voice coil effectively dampen large cone vibration and enhance linearity of sound reproduction.

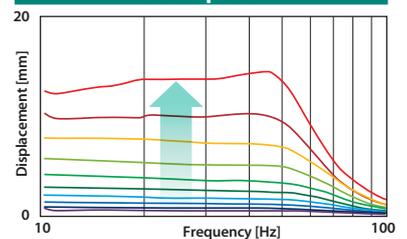
Large-Sized Magnetic Circuit and Projected Pole

A large magnetic circuit and projected pole that brilliantly dissipates heat help to deliver higher power sound. The projected pole helps reproduce more accurate, linear sound by improving the symmetry of vertical magnetic flux distribution.

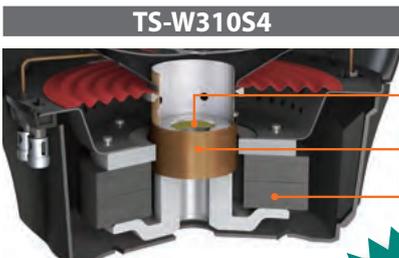
Single Spider



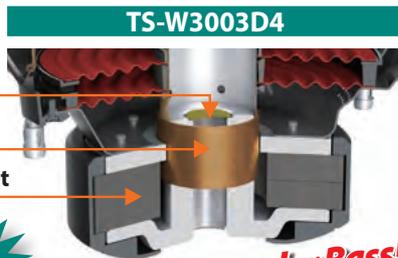
Dual Spider



High Linearity!



TS-W310S4



TS-W3003D4

Bigger Pole

Thicker Wire

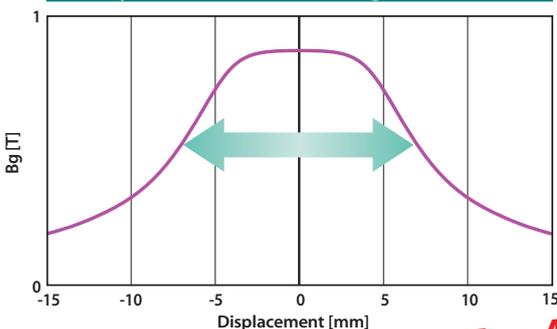
Bigger Magnet

BI 26% Up

Louder Bass!

BI parameter is force factor.
Higher force factor = Higher drive power

Symmetrical Field of Magnetic Flux



More Accurate Sound!

Specifications

	TS-W3003D4
Size	30 cm
Max. Music Power (Nominal)	2,000 W (600 W)
Frequency Response	20 Hz to 80 Hz
Sensitivity (In Car/1 W)	96 dB
Impedance	4 Ω x 2
Mounting Depth	176 mm
Cut-Out Dimensions	∅283 mm
Recommended Enclosure	24.1 liters to 49.5 liters

For more details, see page 105 (Thiele-Small parameters) and 106 (Enclosures).

TS-W311D4/S4

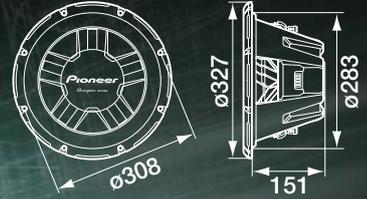
1,400 W MAX.



30 cm (12") Champion Series Subwoofers
(TS-W311D4: 4 Ω Dual Voice Coil Type/TS-W311S4: 4 Ω Single Voice Coil Type)



Champion series

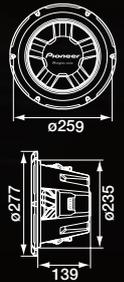


TS-W261D4/S4

1,200 W MAX.



25 cm (10") Champion Series Subwoofers
(TS-W261D4: 4 Ω Dual Voice Coil Type/TS-W261S4: 4 Ω Single Voice Coil Type)



Key Selling Points

- Extreme performance derives from Pioneer's Championship-winning SPL subwoofers.
- The versatile subwoofer lineup provides for various types of installation.
- The Voice Coil Cooling System (VCCS) improves durability and faithfully reproduces the sound of original sources. (TS-W306R/TS-W256R)*

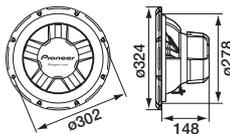
* TS-W306R and TS-W256R are not Champion Series subwoofers.

TS-W311

1,000 W MAX.



30 cm (12") Champion Series Subwoofer
(Multi-Purpose Type)

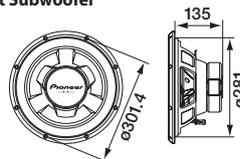


TS-W306R*

1,300 W MAX.

NEW

30 cm (12") Component Subwoofer

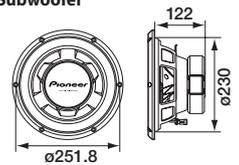


TS-W256R*

1,100 W MAX.

NEW

25 cm (10") Component Subwoofer



TS-W311D4 Cut View

IMPP™ Composite Cone

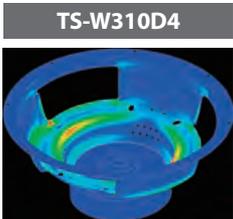
An extremely rigid yet lightweight cone is vital to prevent cone failure at high sound pressure levels. Pioneer's IMPP Composite Cones meet this need perfectly. CAE (computer-aided engineering) has been applied to create a surface spoke design that ensures high durability and rigidity of the cone.

Air Vent

The movement of air within the subwoofer is smoothly channeled for optimal ventilation to ensure a quick response and clear reproduction of bass.

Fully Enclosed Basket

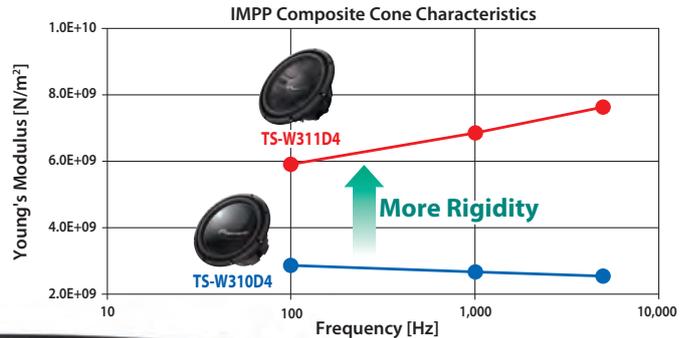
Magnetic circuit is tightly fixed to the basket to suppress undesirable sound-distorting recoil to the cone, realize clear and punchy bass sound.



Clear Bass!

4-Layer Copper Voice Coil with Aluminum Former

Aluminum former improves heat dissipation.

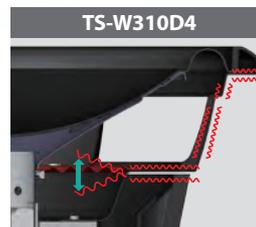


Dual-Layer Elastic Polymer Surround

- Features the world's first technology of its kind.
- Dramatically improves durability and lightness, for superior response, especially for louder volume.

Independent Spider Holder

The TS-W311D4 has a feature inherited from Pioneer's competition-dominating SPL subwoofer. By preventing propagation of spider vibration through the basket to the cone, this structure improves high transient and linearity of excursion, enhances clarity of sound reproduction.



Shuts out vibration

High Linearity!

Technology of TS-W306R and TS-W256R



TS-W306R

Solid and Rhythmical Bass

IMPP™ Composite Seamless Cone

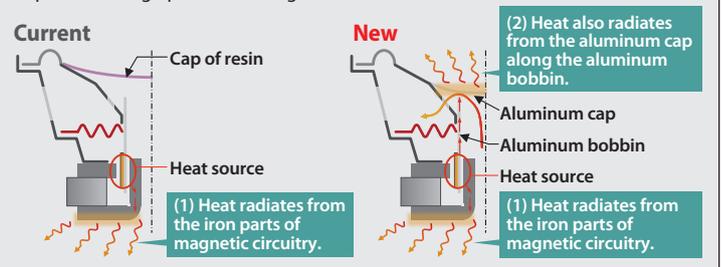
The TS-W306R and TS-W256R deliver superior durability and more solid bass reproduction than their predecessors.

VCCS Technology

Heat radiation, a key to improved durability and faithful reproduction of original sounds, is optimized by new subwoofer design.

Voice Coil Cooling System (VCCS)

Heat is removed from the center of the subwoofer in order to improve frequency response and high power handling.



Specifications

	TS-W311D4	TS-W311S4	TS-W261D4	TS-W261S4	TS-W311	TS-W306R	TS-W256R
Size	30 cm	30 cm	25 cm	25 cm	30 cm	30 cm	25 cm
Max. Music Power (Nominal)	1,400 W (400 W)	1,400 W (400 W)	1,200 W (350 W)	1,200 W (350 W)	1,000 W (300 W)	1,300 W (350 W)	1,100 W (300 W)
Frequency Response	20 Hz to 125 Hz	20 Hz to 160 Hz					
Sensitivity (In Car/1 W)	95 dB	95 dB	93 dB	93 dB	95 dB	96 dB	92 dB
Impedance	4 Ω x 2	4 Ω	4 Ω x 2	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	151 mm	151 mm	139 mm	139 mm	148 mm	135 mm	122 mm
Cut-Out Dimensions	ø283 mm	ø283 mm	ø235 mm	ø235 mm	ø278 mm	ø281 mm	ø230 mm
Recommended Enclosure	24.1 liters to 49.5 liters	24.1 liters to 49.5 liters	18.4 liters to 35.4 liters	18.4 liters to 35.4 liters	24.1 liters to 49.5 liters	24.1 liters to 49.5 liters	18.4 liters to 35.4 liters

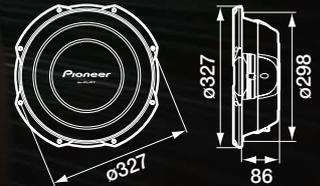
For more details, see page 105 (Thiele-Small parameters) and 106 (Enclosures).

TS-SW3002S4 1,500 W MAX.

30 cm (12") Shallow-Mount Component Subwoofer



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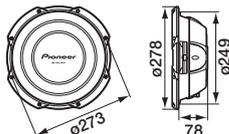


Key Selling Points

- Oversized cone structure provides greater surface area to reproduce high SPL with no increase in basket size.
- Mica-reinforced IMPP™ cone reproduces powerful bass.
- Unique shallow structure of dual spiders, a dual-layer surround and a 4-layer overhung voice coil provides wide excursion and linearity even at high power input.
- OEM-FIT™ enables drop-in OEM audio system replacement or upgrading. (TS-SW2002D2).

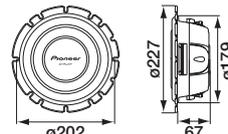
TS-SW2502S4 1,200 W MAX.

25 cm (10") Shallow-Mount Component Subwoofer



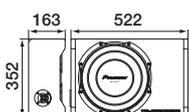
TS-SW2002D2 600 W MAX.

20 cm (8") Shallow-Mount Component Subwoofer



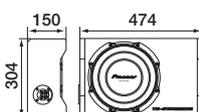
TS-SWX3002 1,500 W MAX. **NEW**

Preloaded 30 cm Shallow Subwoofer Enclosure



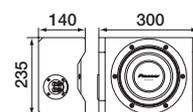
TS-SWX2502 1,200 W MAX.

Preloaded 25 cm Shallow Subwoofer Enclosure



TS-SWX2002 600 W MAX. **NEW**

Preloaded 20 cm Shallow Subwoofer Enclosure



TS-SW3002S4 Cut View

■ Oversized Cone

The TS-SW3002S4 utilizes an oversized cone structure that provides greater cone surface without changing its standard external dimension. This cone surface allows the subwoofer to produce louder and deeper bass by moving more air.



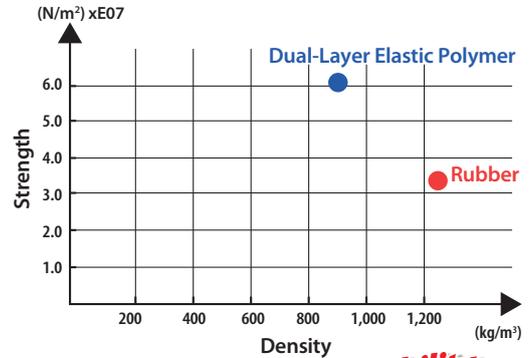
■ Mica Reinforced IMPP™ Cone

The cone structure of this subwoofer uses a highly rigid cone made with MICA injected molded resin which creates a rigid and durable cone, giving it the ability to produce accurate bass.

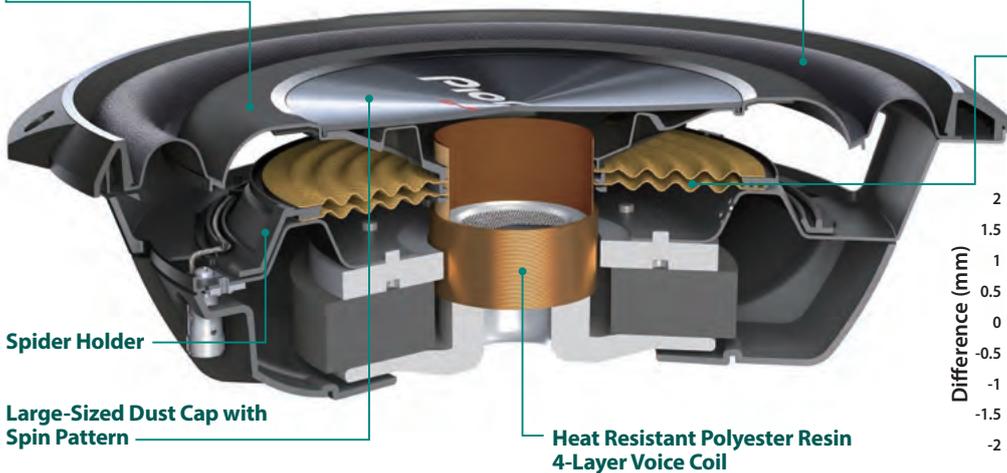
More Punchy Bass!

■ Dual-Layer Elastic Polymer Surround

Dramatically improves durability and lightness, for superior response, especially for louder volume.



High Durability despite Lightweight!



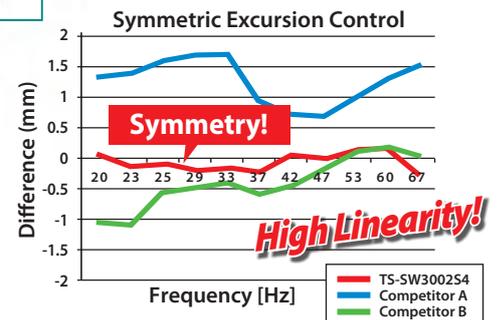
Spider Holder

Large-Sized Dust Cap with Spin Pattern

Heat Resistant Polyester Resin 4-Layer Voice Coil

■ Dual Spider

Two spiders supporting the voice coil effectively dampen large cone vibration and enhance linearity of sound reproduction.

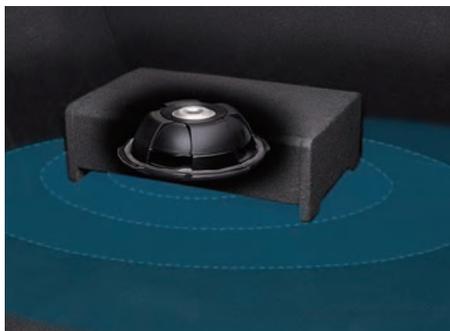


High Linearity!

Deep Bass Sound Produced with Great Efficiency — TS-SWX3002/TS-SWX2502/TS-SWX2002

Downfiring Subwoofer Technology

The subwoofer diaphragm is directed downward for this technology to radiate richer, deeper low-frequency bass sound more efficiently, regardless of the enclosure's installed position.



Flexible Fit Shallow Subwoofer Enclosure

Thanks to its innovative design, the enclosure can be installed freely in the cabin or luggage area for optimal use of space.



Specifications

	TS-SW3002S4	TS-SW2502S4	TS-SW2002D2	TS-SWX3002	TS-SWX2502	TS-SWX2002
Size	30 cm	25 cm	20 cm	30 cm	25 cm	20 cm
Max. Music Power (Nominal)	1,500 W (400 W)	1,200 W (300 W)	600 W (150 W)	1,500 W (400 W)	1,200 W (300 W)	600 W (150 W)
Frequency Response	20 Hz to 125 Hz	20 Hz to 125 Hz	20 Hz to 200 Hz	20 Hz to 315 Hz	20 Hz to 200 Hz	20 Hz to 250 Hz
Sensitivity (In Car/1 W)	93 dB	91 dB	86 dB	92 dB	89 dB	86 dB
Impedance	4 Ω	4 Ω	2 Ω x 2	4 Ω	4 Ω	2 Ω x 2
Mounting Depth	86 mm	78 mm	67 mm	—	—	—
Cut-Out Dimensions	ø298 mm	ø249 mm	ø179 mm	—	—	—
Recommended Enclosure	14.2 liters to 28.3 liters	9.9 liters to 19.8 liters	4.2 liters to 14.2 liters	—	—	—

For more details, see page 105 (Thiele-Small parameters) and 106 (Enclosures).

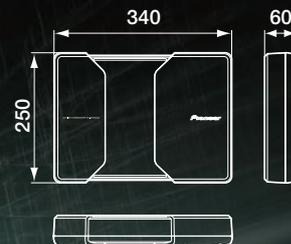
TS-WH500A

150 W MAX. †

HVT™

18 cm x 10 cm x 2 HVT Sealed Active Subwoofer
 Dimensions (W x H x D): 340 mm x 60 mm x 250 mm

† Output power

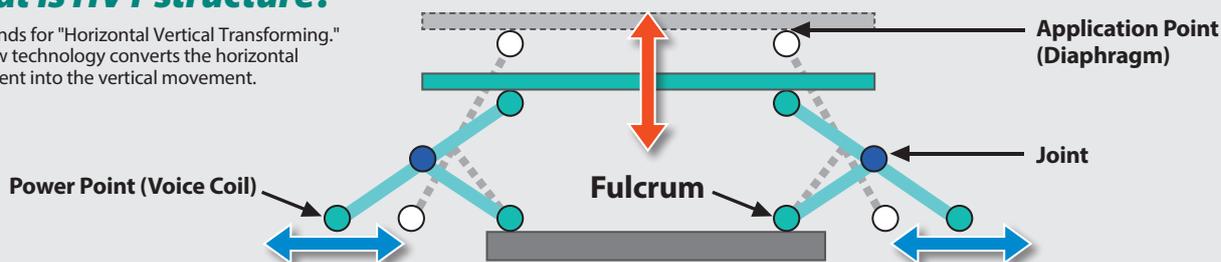


Key Selling Points

- The world's first, patented HVT (Horizontal Vertical Transforming) technology from Pioneer enables a micro-height subwoofer system to produce bass output and sound of quality equal to that of conventional subwoofer systems.
- Dual symmetric diaphragms positioned vertically in a bi-polar configuration increase output and minimize internal loss.
- Height of just 60 mm provides ultimate flexibility of installation (including relatively hard-to-fit installation under seats) for various types of vehicles.

What is HVT structure?

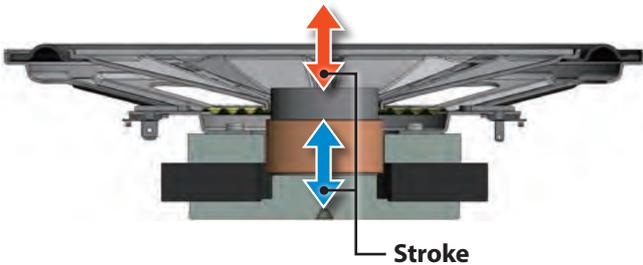
HVT stands for "Horizontal Vertical Transforming." This new technology converts the horizontal movement into the vertical movement.



HVT Structure (TS-WH500A) Cut View & Technology

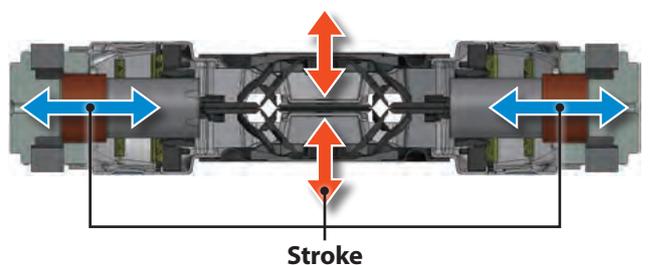
Wide-range Bass Sound

Conventional Subwoofer



Stroke

HVT Subwoofer



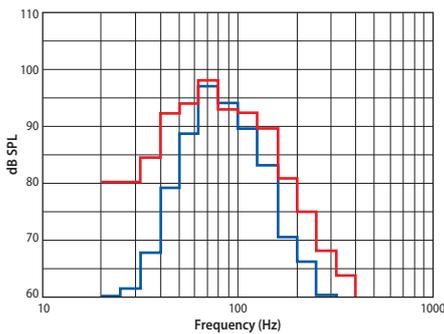
Stroke



The cone and voice coil in a conventional subwoofer move only vertically, which makes it difficult to reproduce deep bass in a shallow structure. The HVT subwoofer which does not rely on depth within its enclosure, reproduces deep bass even in a shallow structure.

Comparison Diagram between Conventional Subwoofers vs TS-WH500A

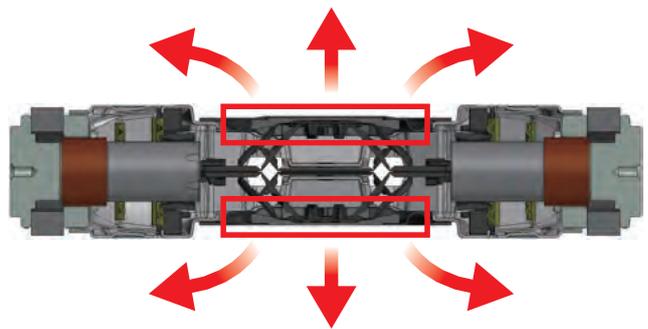
1/3 Oct. Spectrum Measurement of Loudspeaker



Compared to conventional subwoofers, the TS-WH500A offers wider low range frequency reproduction, for well-balanced bass sound from various musical instruments.

— TS-WH500A
— Conventional Subwoofers

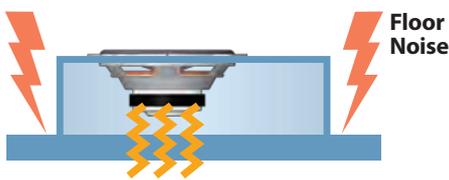
Sound Direction Image



Double Diaphragm enlarges vibration area to increase sensitivity.

Clear Sound & Less Noise

Conventional Subwoofer

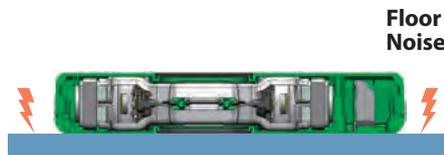


Floor Noise

Vibration of Bottom Cabinet

Forces of action and reaction forces make the chassis vibrate and generate noise.

HVT Subwoofer

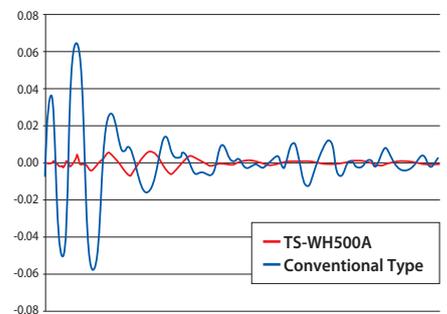


Floor Noise

Less Vibration & Less Noise

The TS-WH500A voice coil and diaphragm work in symmetry to cancel unnecessary vibrations and reduce noise which instead would travel through the vehicle's body.

Comparison of Vibration Level at the Bottom Cabinet



Unnecessary vibrations are drastically decreased.

Easy & Flexible Installation

The TS-WH500A will fit easily in a wide range of vehicle applications (compact and subcompact vehicles, hybrid vehicles, trucks and SUVs, etc.) without sacrificing performance or sound quality.



Specifications

	TS-WH500A
Size	18 cm x 10 cm x 2
Max. Music Power (Nominal)	150 W* (50 W**)
Frequency Response	20 Hz to 200 Hz
Sensitivity (In Car/1 W)	98 dB
Impedance	4 Ω

* Maximum output power ** Nominal output power

SUBWOOFERS

TS-WX305T 1,300 W MAX.

30 cm (12") Bass-Reflex Tube Type Subwoofer
• Dimensions (W x H x D): ø344 mm x 669 mm



TS-WX305B 1,300 W MAX.

30 cm (12") Bass-Reflex Subwoofer
• Dimensions (W x H x D): 500 mm x 379 mm x 280 mm



Key Selling Points

- High power and loud sound are achieved by incorporating a long voice coil and large magnetic circuit.
- Instantly installable — there's no need to make an enclosure for the subwoofer.

TS-WX120A 150 W MAX.†

20 cm x 13 cm Sealed Active Subwoofer
• Dimensions (W x H x D): 280 mm x 70 mm x 200 mm

† Output power



TS-WX210A 150 W MAX.†

20 cm (8") Sealed Active Subwoofer
• Dimensions (W x H x D): 250 mm x 118 mm x 265 mm



† Output power



Key Selling Points

- Built-in amplifier simplifies installation, especially in tight spaces.
- Excellent for enjoying big bass sound, regardless of space limitations.

Technology of TS-WX305T and TS-WX305B

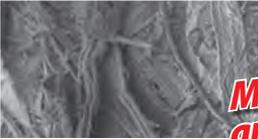
IMPP™ Composite Seamless Cone

An extremely rigid yet lightweight cone is vital to prevent cone failure at high sound pressure levels. Pioneer's IMPP Composite Seamless Cones meet this need perfectly.

Cone Body with Blended Fiber

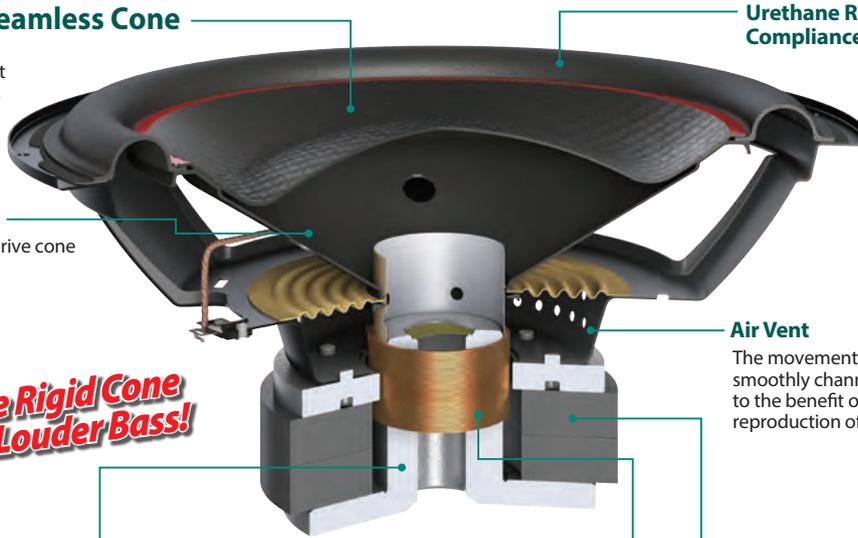
The fiber material blended into the drive cone improves sound response.

Microscopic View



Cone body with fiber

More Rigid Cone and Louder Bass!



Urethane Rolled Edge with High Compliance

Air Vent

The movement of air within the subwoofer is smoothly channeled for optimal ventilation to the benefit of quick response and clear reproduction of bass.

Large and Projected York Pole

Extending the yoke pole of the upper part to the upper side maintains symmetry of vertical cone motion, for sound reproduction of great linearity and accuracy.

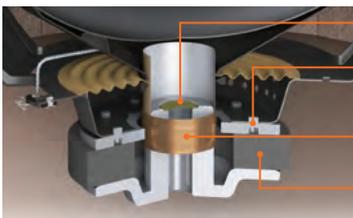
Long Voice Coil with Enlarged Wire Diameter and Aluminum Bobbin

Use of thick magnetic wire and an aluminum bobbin ensures excellent durability to withstand high input power.

Double Stacked High Energy Magnets

With two large magnets, the cone can be driven at high power.

Previous Model



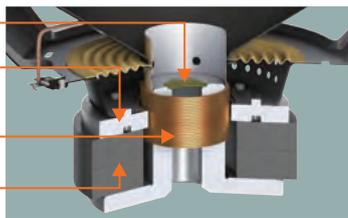
Bigger Pole

Thicker Plate

Thicker Wire Gauge & Wider Wind Width

Bigger Magnet

Bass-Reflex Subwoofer



Louder Bass and More Accurate Sound!

Eye-catching and Functional Port (TS-WX305B)

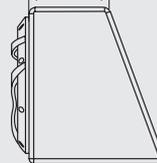


Installable in Less Space than Previous Subwoofer (TS-WX305B)

Producing high-power sound from an even shallower enclosure depth for easier installation.

Previous Model

192 mm



TS-WX305B

148 mm



23% Shallower
Easy Installation!

Technology of TS-WX120A

Flexible Installation

The TS-WX120A has the same width and depth as a previous model, but less height, so it can be easily installed under the seat in various types of cars.

Previous Model



75 mm

TS-WX120A



70 mm



Easy Installation!

Specifications

	TS-WX305T	TS-WX305B	TS-WX120A	TS-WX210A
Size	30 cm	30 cm	20 cm x 13 cm	20 cm
Max. Music Power (Nominal)	1,300 W (350 W)	1,300 W (350 W)	150 W* (50 W**)	150 W* (50 W**)
Frequency Response	20 Hz to 125 Hz	20 Hz to 125 Hz	30 Hz to 160 Hz	37 Hz to 200 Hz
Sensitivity (In Car/1 W)	97 dB	95 dB	98 dB	102 dB
Impedance	4 Ω	4 Ω	—	—

* Maximum output power ** Nominal output power



INDEX

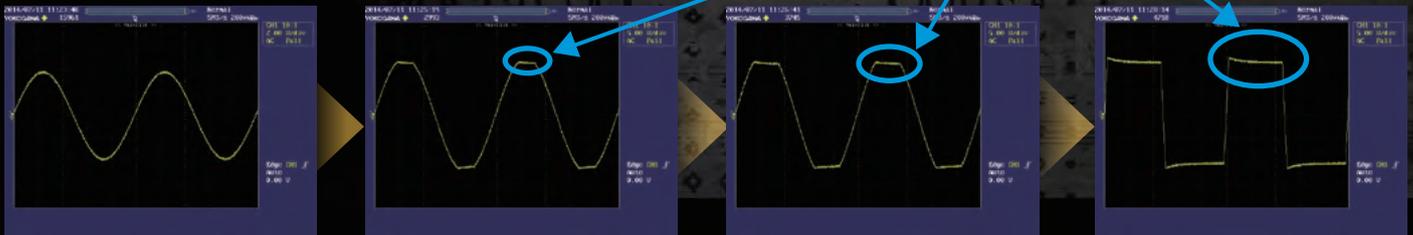
/ PRS Series Speakers	75	/ TS-G Series Speakers	88
/ TS-D Series Speakers	78	/ Champion Series Speakers	90
/ TS-A Series Speakers	82	/ Pro Series Speakers	92
/ TS-R Series Speakers	86	/ Other Speakers	93

The Importance of High Sensitivity

Why is High Sensitivity important for the car speakers?

When you need to turn up the volume from the receiver, the greater the output signal from the receiver's amplifier, the more this signal is distorted, which may cause clipping noise.

Oscilloscope Images of Sound Distortion



Proper volume

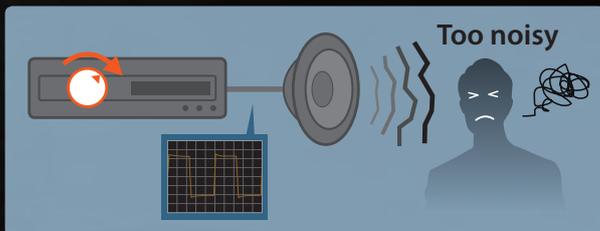
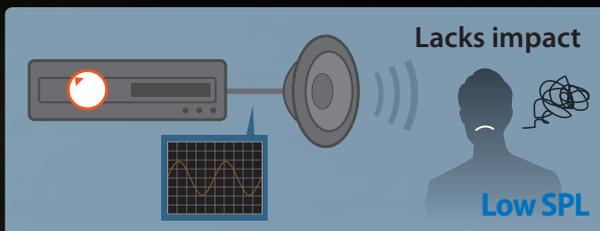
Turned-up volume

High volume

How do high sensitivity speakers help sound?

Pioneer car speakers sound very clear and sufficiently loud at low receiver volume settings because high sensitivity specifications make the speakers responsive enough to reproduce sound with great precision, even at low receiver amplifier output signal levels.

Conventional Speaker



Pioneer Speaker



* The SPL using continuous power of a Pioneer receiver.

SPEAKERS

OPEN & SMOOTH™



Pioneer's Sound Concept: Open & Smooth

The "Open & Smooth" sound of Pioneer's industry-leading speakers delivers both sonic excellence and performance. The open-staging and smooth transition of driver response makes for an immersive experience that is truly the ultimate in-car sound.

Pioneering An Ideal

Absolute fidelity to musical sources takes form from speakers that reproduce the ambience in which sounds originate. Stage size, musicians' movement, aural reflection and other distinctive details all bring these sounds to life.

What is "Open & Smooth"?

Like a smooth, open road, the journey to more perfect in-car sound treats passengers to dramatic sensations moving with natural, dynamic flow.

Open: Open staging and sound characteristics enhance the widening effect that extends way beyond the space between speakers.

Smooth: With smooth transitions between mid-bass and tweeter, sound from these speakers is not marred by crossover frequency dips.

Why "Open & Smooth"?

Only by pursuing this ideal can we realize "accurate mid-range sound reproduction" and "music that lacks for nothing, with flat response".

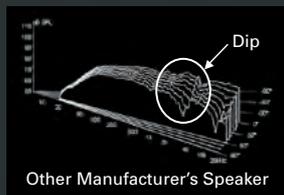
How "Open & Smooth"?

Pioneer's approach to ideal sound relies on a foundation of "Smoother Off-Axis Response", "Low Crossover Frequency", "Low Distortion" and "Rigid and Light weight cone structure".

Smoother Off-Axis Response

Superior Directivity: Pioneer PRS Speakers

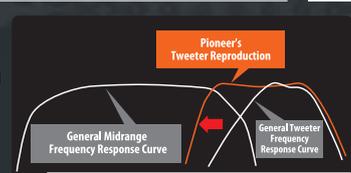
Pioneer PRS speakers always maintain more open, smooth, expansive, multidimensional sound, without the dramatic dips and inconsistencies that lesser speakers can produce.



Low Crossover Frequency

Wider Response, Lower Crossover Point

Pioneer extends tweeter performance to much lower frequencies, creating fuller midrange fidelity and clear, accurate vocals.



Low Distortion

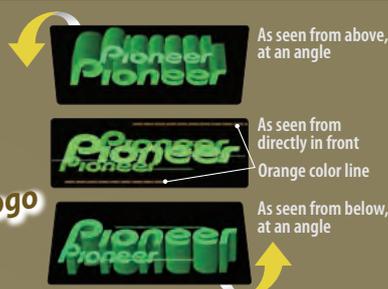
Pioneer speaker innovations to suppress distortion include revolutionary rigid yet lightweight IMPP cones that significantly reduce mid-to-low range distortion and reproduce sound staging to natural effect.

OPEN & SMOOTH™

Pioneer Official 3D Hologram

Pioneer 3D hologram sticker is attached to product packaging carton for some models of Pioneer speakers*.

Green images of 3D hologram logo



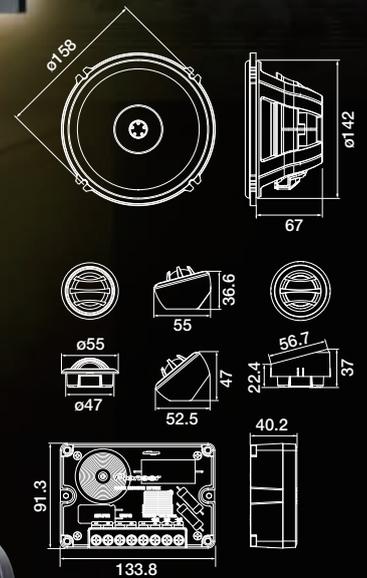
* In this Dealer Reference Guide, particular speakers and 3D hologram logo appear as in examples below. The product that has a 3D hologram sticker attached to its packaging carton features this logo on product page. Please see product page for more details.



TS-C172PRS

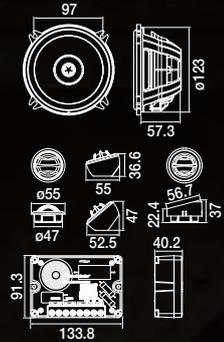
17 cm Component Speaker Package

OPEN & SMOOTH™



TS-C132PRS

13 cm Component Speaker Package



TS-S062PRS

66 mm Component Midrange Speaker



Key Selling Points

- Audiophile-grade speakers designed to stunningly recreate the musical performance in exact detail.
- Meticulous attention to detail in the materials and craftsmanship ensure the most subtle musical nuances are reproduced with extraordinary accuracy.
- New midrange component delivers amazing clarity to male and female vocal range.

The New Reference in Audio Excellence: The PRS 4-Way System

Complete your state-of-the-art system using the PRS 4-way speaker setup. Utilize the midrange along with one of the component speaker packages, and setup & adjust it all with the DEX-P99RS. This system results in truly spectacular imaging & staging, as the main male & female vocal ranges are covered by one driver (the midrange).

PRS Speaker Cut View — Tweeter

Smooth Off-Axis Response

Soft-Dome Diaphragm

The FEM (Finite Element Method) designed dome allows wide sound dispersion with flat & even response.

Sound Absorbing Material

Absorbs the back wave reflection from the moving tweeter diaphragm, preventing phase shifts or frequency cancellation—producing a smoother, more linear sound.

Low Distortion

Canceling Magnet

Reinforces the magnetic flux density to provide greater control and precisely linear performance.

PCOCC®* Voice Coil Wire

The purity of the copper in voice coil wire plays a significant role in sound quality, which is why the use of OFC (Oxygen-Free Copper) is a common practice. But for a Pioneer PRS speaker that isn't good enough.

Pioneer features the world's-first use of the pure crystal casting process (PCOCC) in a voice coil wire. This "five nines" purity (99.9997%, compared to OFC's 99.99%) results in wires with superior conductivity, lower electrical resistance and reduced skin effect.

* PCOCC is registered trademark of Furukawa Electric Co., Ltd.



OFC

PCOCC®

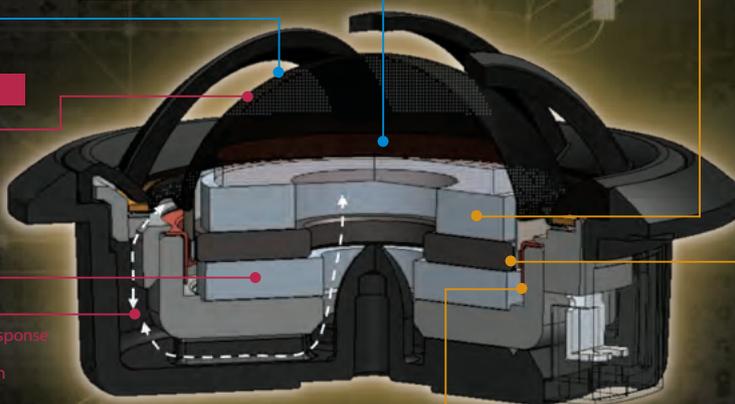
Lower Crossover Frequency

28 mm Large Sized Diaphragm

Main Magnet

Back Chamber

By utilizing a sealed rear cavity, low-end response of the tweeter is extended—allowing for a smoother transition in frequencies between tweeter and midrange.



OFC Short Ring

Focuses the magnetic field where it needs to be, increasing efficiency, lowering distortion and providing for more linear voice coil movement.

PRS Speaker Cut View — Woofer

High Linearity Sound

Linear Moving Force System for ultra low distortion and high definition in bass sound.

Micro Fiber Surround: Maximum Musical Response

The high-density micro fiber material surrounding the woofer of a PRS speaker is very light and low internal loss characteristics. The Micro Fiber Surround realizes faster response and more accurate bass reproduction that allows all music to be heard to greatest advantage.

AL/Brass Dual Metal Center Plug

Two different metals combine to reduce resonance.

Voice Coil with Short-Winding Length

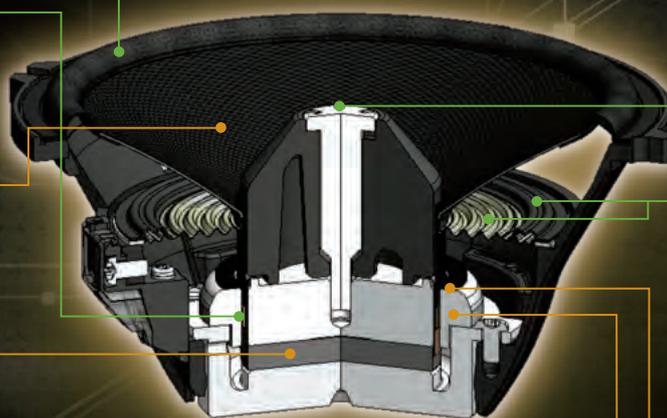
Short voice coil (underhung design) provides maximum control with very light weight, providing high sensitivity and superior musical detail.

Progressive Flex Suspension System (PFSS)

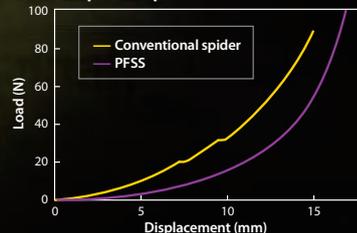
Most spiders are all brawn and no brains, but Pioneer's PFSS is a "smart spider" that adapts to your music dynamically. When listening to soft music, it delivers the detail and fast response required, but when the big crescendo hits, it provides the precise control as well as the long excursion required for exceptional sound quality.

2nd Generation Multi-Layer IMX (Injection Molded Matrix) Cone

Inside Magnetic Type with Neodymium Magnet



Spider Displacement of Static Load



Low Distortion

OFC Short Ring

Focuses the magnetic field where it needs to be, increasing efficiency, lowering distortion and providing for more linear voice coil movement.

Overhung Top Plate

Focuses the magnetic field towards the voice coil.

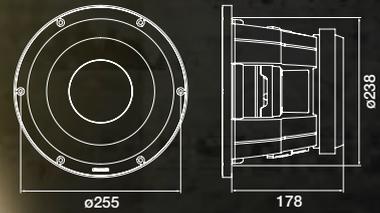
Installation Capability Improvement!!

New inner-magnet design with Neodymium magnet allows the basket structure to be significantly smaller, and allows the woofer to fit easier into many doors—avoiding obstructions like window rails.



TS-W252PRS

25 cm (10") Component PRS Subwoofer



Key Selling Point

- High sensitivity, unmatched linearity and superior speed designed to create the epitome of detailed, accurate and impactful bass reproduction.

TS-W252PRS Cut View

Corrugated Surround

Aramid Fiber (Conex) with Rubber Coating

OFC Short Ring

Focuses the magnetic field where it needs to be, increasing efficiency, lowering distortion and providing for more linear voice coil movement.

Block Terminal (Gold-Plated)

*Accepts up to 4 AWG Cable

Overhung (Thick) Plate 35 mm

Short Voice Coil

Sound Quality and Reliability

Rigid and Light weight Cone and Cap structure realizes both reliability and high speed sound.

Three layer design creates feather-weight cone with exceptional strength

- Aramid Fiber surface layer
- Foamed PP core
- Glass Fiber reinforcement layer



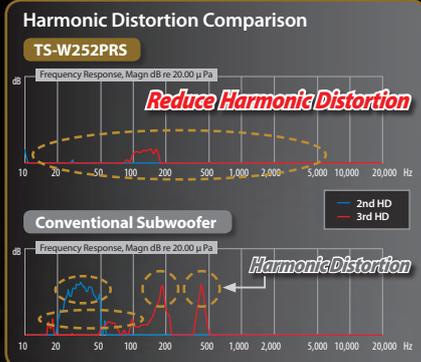
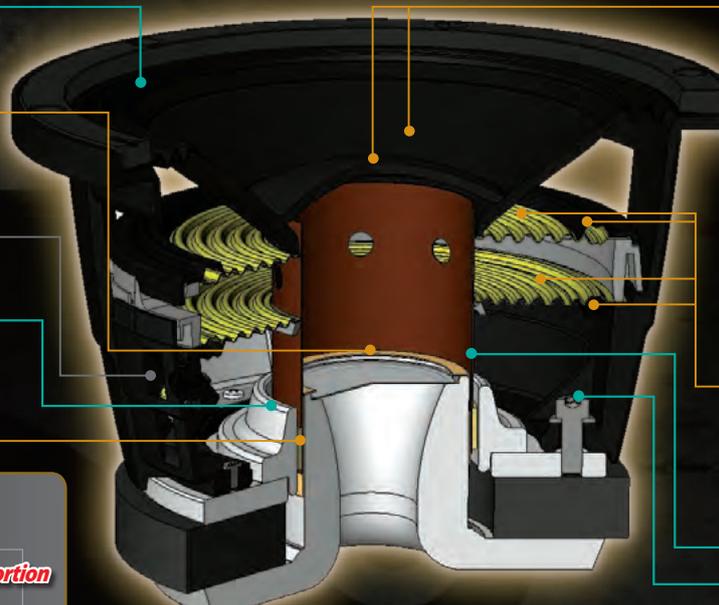
Progressive Flex Suspension System (PFSS)

It delivers the detail and fast response required, but when the big crescendo hits, it provides the precise control as well as the long excursion required for exceptional sound quality.

Massive 75 mm Diameter Voice Coil

AL-Diecast Basket

Eliminates ringing and unwanted resonances.



Usually when BL is high, impedance rises, decreasing sensitivity and degrading the mid-bass connection. New PRS improves with application of the appropriate magnetic circuit and adjustments to thickness of Cu ring and voice coil design.

	TS-C172PRS	TS-C132PRS	TS-S062PRS	TS-W252PRS
Size	17 cm 28 mm*	13 cm 28 mm*	66 mm	25 cm
Max. Music Power (Nominal)	200 W (50 W)	150 W (30 W)	200 W (50 W)** 60 W (15 W)***	800 W (400 W)
Frequency Response	25 Hz to 35 kHz	30 Hz to 35 kHz	48 Hz to 40 kHz	20 Hz to 2,400 Hz
Sensitivity (1 W/1 m)	89 dB	86 dB	84 dB	84 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω
Crossover Frequency	2,300 Hz	2,200 Hz	—	—
Mounting Depth	67 mm 13.4 mm*	57.3 mm 13.4 mm*	32 mm 42.2 mm****	178 mm
Mounting Depth with Mount Adapter	16 cm: 55 mm	—	—	—
Cut-Out Dimensions	—	—	—	—
Recommended Enclosure	—	—	—	28.3 liters

* Tweeter specification ** With back chamber, 800 Hz, -12 dB/oct. HPF *** Without back chamber, 400 Hz, -12 dB/oct. HPF **** With back chamber

TS-D1730C 260 W MAX.

17 cm Component Speaker Package

Twaron®

The power of Aramid

OPEN & SMOOTH™



Key Selling Points

- **Twaron®* Aramid fiber cone reproduces deep and bold bass & bold vocal sound and also expresses even the most subtle nuances.**
- **Open & Smooth™ sound concept delivers open staging & smooth transition of driver response to provide the ultimate in-car sound.**
- **Included brackets** provide for installation flexibility and wide coverage.**

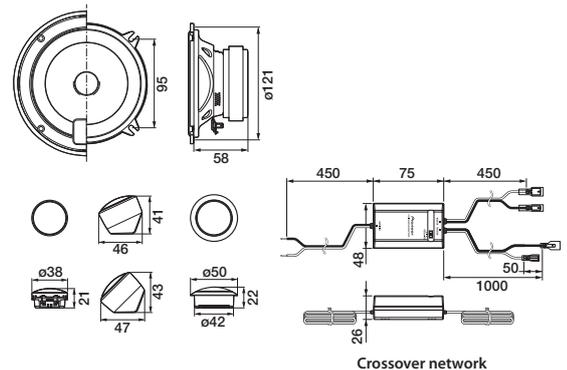
*Twaron® is a registered trade mark of Teijin Aramid BV. ** Only for TS-D1730C.

TS-D1330C 180 W MAX.

13 cm Component Speaker Package

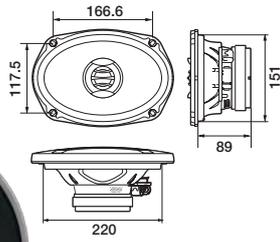
Twaron®

The power of Aramid



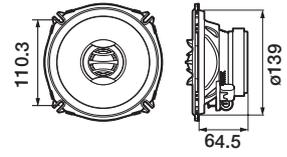
TS-D6902R 360 W MAX.

6" x 9" 2-Way Speaker



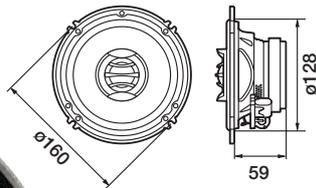
TS-D1702R 280 W MAX.

17 cm 2-Way Speaker



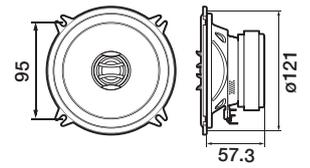
TS-D1602R 260 W MAX.

16 cm 2-Way Speaker



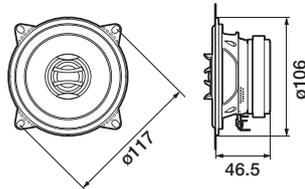
TS-D1302R 180 W MAX.

13 cm 2-Way Speaker



TS-D1002R 110 W MAX.

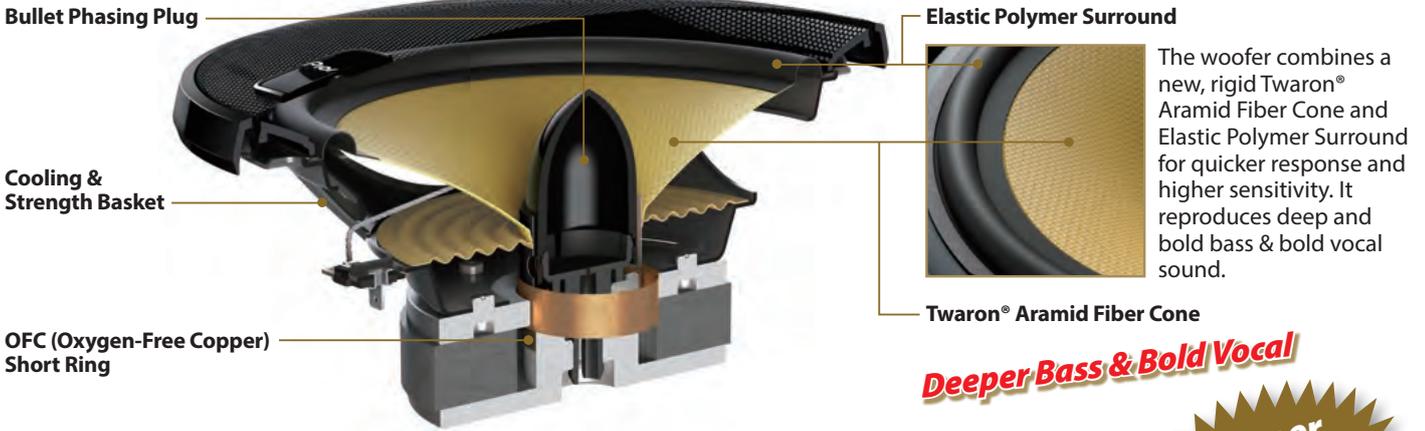
10 cm 2-Way Speaker



Technology of a D-Series Speaker

TS-D1730C Cut View

Woofer



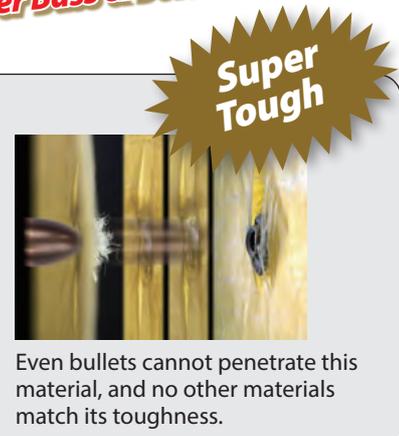
Twaron®* Aramid Fiber Cone



The new cone on the woofer of the Pioneer TS-D component offers a variety of improvements for optimal performance and phenomenal sound. The aramid fiber cone is constructed from Twaron® woven cloth that is hardened and shaped to produce a rigid and durable cone. The woofer offers stiffer dampening for quicker response. The woofer section of the TS-D component produces deep and bold bass & bold vocal sound.



* Twaron® is a registered trade mark of Teijin Aramid BV.



Open & Smooth Sound

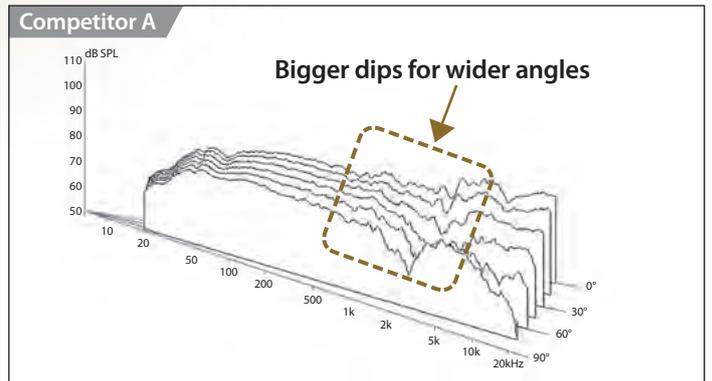
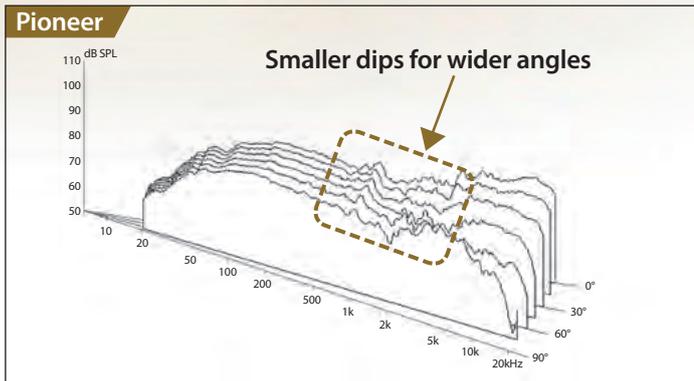
With the "Open & Smooth" sound of Pioneer D-Series Speakers out on the open road, the journey to more dramatic in-car audio sensations moves every passenger in its natural, dynamic flow.



Open*	Open staging and sound characteristics enhance the widening effect that extends way beyond the space between speakers.
Smooth*	With smooth transitions between mid-bass and tweeter frequency characteristics, sound from these speakers is not marred by crossover frequency dips.

* For details, please see "Open & Smooth Sound" on page 74.

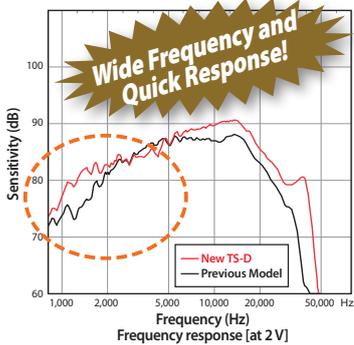
A Superior Characteristic of D-Series: Smaller Dips for Wider Angles



Unlike competitors' speakers, Pioneer D-Series speakers produce more natural sound without big gaps in the high-to-midrange frequency range for various angles.

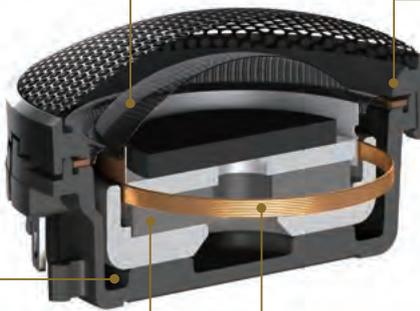
Tweeter

Rear Chamber



The new D-Series components are capable of wider frequency sound and quicker response in playback than any models that preceded them.

Light Weight Soft Dome Diaphragm

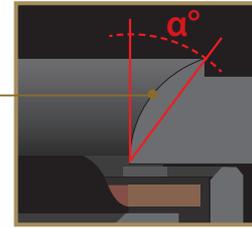


Neodymium Magnet

CCAW (Copper-Clad Aluminum) Voice Coil

Optimized Flange Shape

The flange is optimally shaped for wider directivity and reproduces steady sound.



Brackets (for TS-D1730C)



The included bracket can be cut as needed for flexible installation in various types of cars without having to cut vehicle doors.

23 Pole Tweeter



Flexible Installation

Network



Compact body fits small spaces and selectable tweeter level for close matching of the tweeter with the woofer.

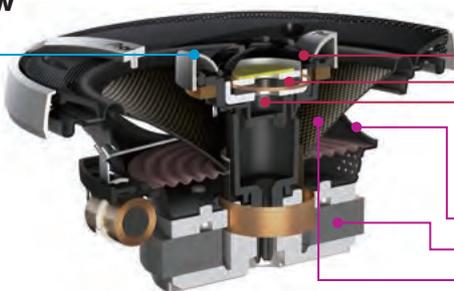
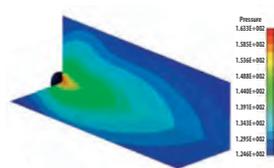
TS-D1602R Cut View

Smooth Off-Axis Response



Wave Guides

Controls sound dispersion to make sound stage wider in the car.



Lower Crossover Frequency

Light Weight Soft-Dome Diaphragm

High-Power Neodymium Tweeter Magnet

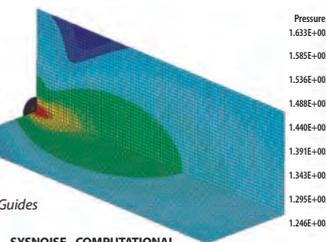
Rear Chamber

Low Distortion

Thick Woofer Basket

Large-Sized Woofer Magnet

Dual-Layer IMX (Injection Molded Matrix) Aramid/Basalt Fiber Composite Cone



Microscopic Cross Section View

Aramid/Basalt Fiber Skin with Ceramic Coating

- Reproduces lively sound
- Disperses resonance

Composite Foamed IMPP

- Better transience in low and mid-low range
- Better rigidity and velocity
- Light weight for better response

Specifications

	TS-D1730C	TS-D1330C	TS-D6902R	TS-D1702R	TS-D1602R	TS-D1302R	TS-D1002R
Size	17 cm, 23 mm*	13 cm, 23 mm*	6" x 9"	17 cm	16 cm	13 cm	10 cm
Max. Music Power (Nominal)	260 W (60 W)	180 W (35 W)	360 W (80 W)	280 W (60 W)	260 W (60 W)	180 W (35 W)	110 W (25 W)
Frequency Response	27 Hz to 44 kHz	37 Hz to 44 kHz	28 Hz to 30 kHz	30 Hz to 32 kHz	35 Hz to 32 kHz	35 Hz to 40 kHz	40 Hz to 40 kHz
Sensitivity (1 W/1 m)	88 dB	88 dB	90 dB	88 dB	88 dB	88 dB	86 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Crossover Frequency	4,500 Hz (with -12 dB)	4,500 Hz (with -12 dB)	2,800 Hz	3,200 Hz	4,000 Hz	6,000 Hz	6,000 Hz
Mounting Depth	65 mm 13 mm*	58 mm 13 mm*	89 mm	64.5 mm	59 mm	57.3 mm	46.5 mm
Mounting Depth with Mount Adapter	45 mm**	—	—	—	—	—	—
Cut-Out Dimensions	ø144 mm	ø121 mm	151 mm x 220 mm	ø139 mm	ø128 mm	ø121 mm	ø106 mm

* Tweeter specification ** With 6" x 9" tweeter bracket

TS-A1606C 350 W MAX.

16 cm Component Speaker Package

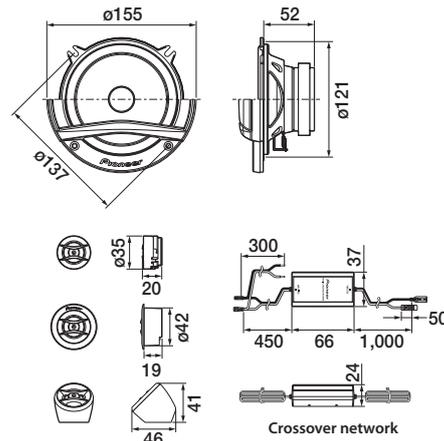


Key Selling Points

- Deeper bass and clearer high frequencies sound reproduction is realized with higher dynamic range for greater listening experiences.
- With the balanced combination of the parts, higher power handling ability is realized for more impactful sound and vibrant music playback (Max Power increased for TS-A1676S and 6" x 9" models).
- High-quality appearance and universal design enhance the vehicle interior. High durability can withstand even severe use (fully covered mesh grille included for 6" x 9" models).

TS-A1306C 300 W MAX.

13 cm Component Speaker Package



TS-A6996S 650 W MAX. **3D HOLOGRAM**

6" x 9" 5-Way Speaker

MULTILAYER MICA MATRIX CONE

High Dynamic Range

TS-A6986S 600 W MAX. **3D HOLOGRAM**

6" x 9" 4-Way Speaker

MULTILAYER MICA MATRIX CONE

High Dynamic Range

TS-A6976S 550 W MAX. **3D HOLOGRAM**

6" x 9" 3-Way Speaker

MULTILAYER MICA MATRIX CONE

High Dynamic Range

TS-A6966S 420 W MAX. **3D HOLOGRAM**

6" x 9" 3-Way Speaker

MULTILAYER MICA MATRIX CONE

High Dynamic Range

TS-A1686S 350 W MAX. **3D HOLOGRAM**

16 cm 4-Way Speaker

MULTILAYER MICA MATRIX CONE

High Dynamic Range

TS-A1676S 320 W MAX. **3D HOLOGRAM**

16 cm 3-Way Speaker

MULTILAYER MICA MATRIX CONE

High Dynamic Range

TS-A1376S 300 W MAX.

13 cm 3-Way Speaker

MULTILAYER MICA MATRIX CONE

High Dynamic Range

TS-A6886R 350 W MAX.

6" x 8" 4-Way Speaker

MULTILAYER MICA MATRIX CONE

High Dynamic Range

TS-A4676R 200 W MAX.

4" x 6" 3-Way Speaker

MULTILAYER MICA MATRIX CONE

High Dynamic Range

TS-A4633i 200 W MAX.

4" x 6" 3-Way Speaker

MULTILAYER MICA MATRIX CONE

High Dynamic Range

TS-A2013i 500 W MAX.

20 cm 3-Way Speaker

INJECTION MOLDED CONE

High Dynamic Range

TS-A2503i 420 W MAX.

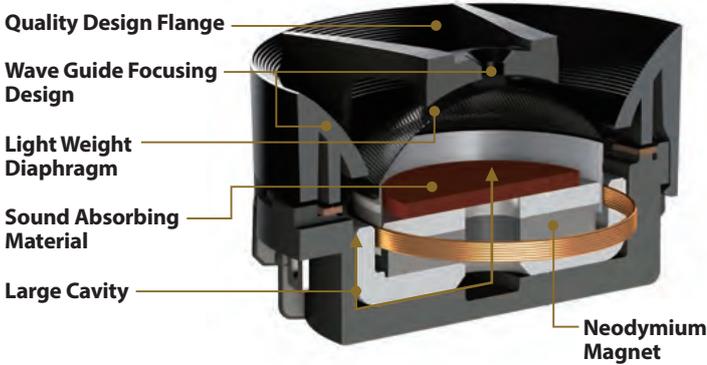
25 cm 3-Way Speaker

INJECTION MOLDED CONE

High Dynamic Range

Technology of an A-Series Speaker

TS-A1606C Cut View



Installation Flexibility — Tweeter Mounting Options



The flexible three-way installation tweeter disperses sound more widely with superior control, providing listeners with the best sound under all conditions, regardless of listening position or car.

External Passive Crossover Network

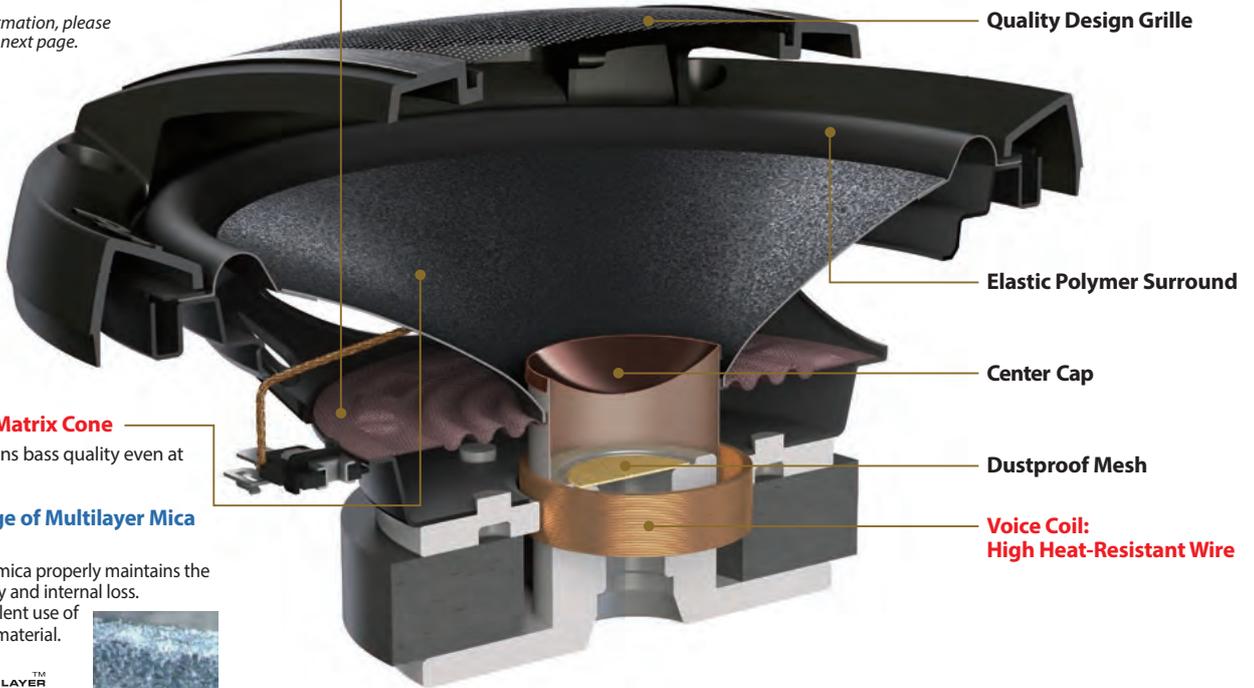
An external crossover network takes optimal advantage of of woofer and tweeter sound characteristics.



P.F.S.S. Spider*

Achieves the best balance between sound quality and high durability. This system realizes ideal sound reproduction.

*For the detailed information, please see the column on the next page.



Multilayer Mica Matrix Cone

Consistently maintains bass quality even at high input.

Microscopic Image of Multilayer Mica Matrix Cone

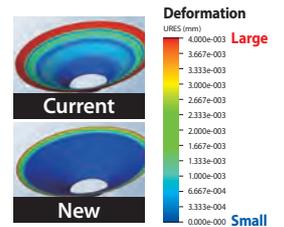
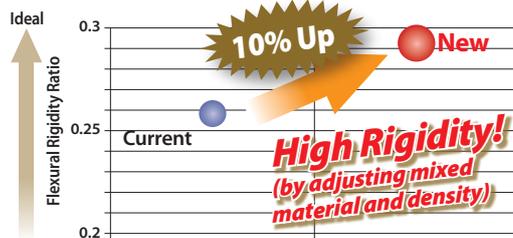
A surface containing mica properly maintains the cone's superior rigidity and internal loss. The back makes excellent use of light, water-resistant material.



Solid Bass Sound



Various materials were carefully combined to develop a diaphragm of extra lightness and rigidity to reproduce sound clearly with outstanding responsiveness, sensitivity and a suitable degree of internal loss.



Deeper Bass Sound

Compared to the former models, the new A-Series can reproduce deeper bass sound, bringing you more impressive experiences of sound and music.

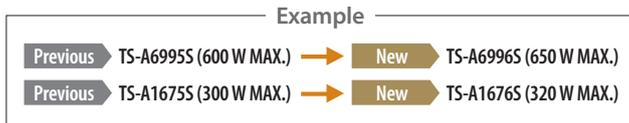
Technology of an A-Series Speaker

TS-A6996S Cut View

Increased Max Power

Max music power resulting from the combination of optimized parts (indicated by red letters on the diagram below) exceeds the power of the previous A-Series models.

Note: The following explanations are not for TS-A2013i and TS-A2503i.



Multilayer Mica Matrix Cone

All Models
Consistently maintains bass quality even at high input.

Elastic Polymer Surround

P.F.S.S. Spider

TS-A1606C / TS-A6996S / TS-A6986S
TS-A6976S / TS-A6966S / TS-A1686S

Achieves the best balance between sound quality and high durability. This system realizes ideal sound reproduction.

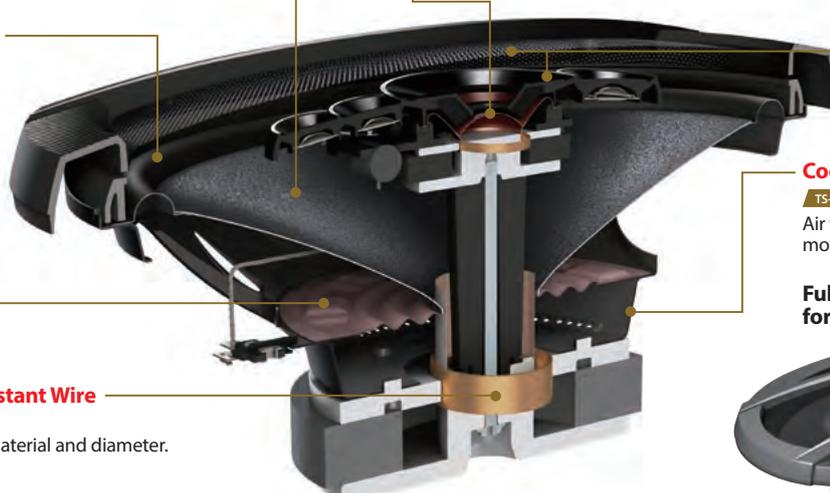
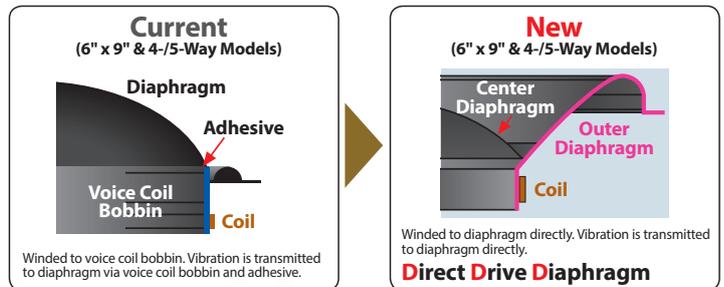
Voice Coil: High Heat-Resistant Wire

All Models
Incorporating optimized wire material and diameter.

Hard Type Direct Drive Diaphragm

TS-A6996S / TS-A6986S
Prevents deformation caused by excessive input.

Tweeter with Direct Drive Diaphragm (TS-A6996S & TS-A6986S)



Quality Design Grille & Flange

Cooling Basket with Air Vents

TS-A6996S / TS-A6986S / TS-A6976S / TS-A6966S
Air vents under the spider make movement smooth and cool the body.

Fully Covered Mesh Grille for 6" x 9" Models

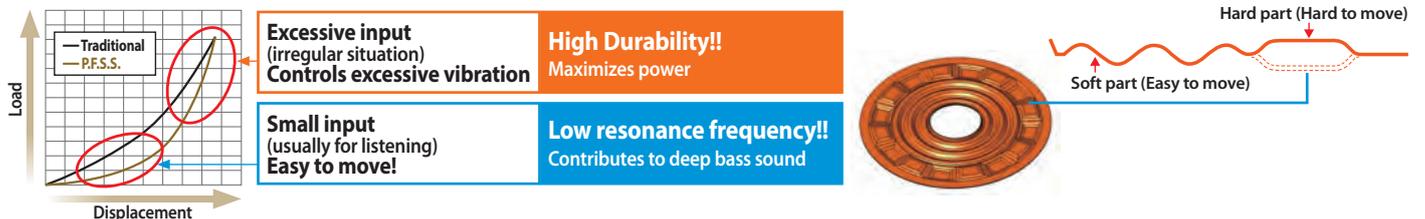


Prevents dust from entering speaker body interior.

Progressive Flex Suspension System

(P.F.S.S. patented technology, for 6" x 9" models and TS-A1686S)

With exclusive material inherited from Pioneer's high-end PRS Series, this system realizes ideal sound reproduction. At a small input, its soft part makes movement smooth and reproduces clear sound and at excessive input, its hard part controls excessive vibration and prevents movement error.



Specifications

	TS-A1606C	TS-A1306C	TS-A6996S	TS-A6986S	TS-A6976S	TS-A6966S	TS-A1686S
Size	16 cm 20 mm*	13 cm 20 mm*	6" x 9"	6" x 9"	6" x 9"	6" x 9"	16 cm
Max. Music Power (Nominal)	350 W (60 W)	300 W (50 W)	650 W (100 W)	600 W (100 W)	550 W (90 W)	420 W (60 W)	350 W (60 W)
Frequency Response	32 Hz to 43 kHz	42 Hz to 42 kHz	28 Hz to 38 kHz	27 Hz to 37 kHz	27 Hz to 24 kHz	28 Hz to 36 kHz	32 Hz to 38 kHz
Sensitivity (1 W/1 m)	91 dB	90 dB	93 dB	92 dB	92 dB	92 dB	91 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	54 mm 19 mm*	52 mm 19 mm*	85 mm	84 mm	84 mm	71 mm	54 mm
Cut-Out Dimensions	ø144 mm	ø121 mm	153 mm x 222 mm	153 mm x 222 mm	153 mm x 222 mm	153 mm x 222 mm	ø144 mm
	TS-A1676S	TS-A1376S	TS-A6886R	TS-A4676R	TS-A4633I	TS-A2013i	TS-A2503i
Size	16 cm	13 cm	6" x 8"	4" x 6"	4" x 6"	20 cm	25 cm
Max. Music Power (Nominal)	320 W (50 W)	300 W (50 W)	350 W (60 W)	200 W (30 W)	200 W (30 W)	500 W (80 W)	420 W (80 W)
Frequency Response	32 Hz to 40 kHz	40 Hz to 39 kHz	28 Hz to 39 kHz	35 Hz to 42 kHz	35 Hz to 42 kHz	25 Hz to 28 kHz	20 Hz to 31 kHz
Sensitivity (1 W/1 m)	90 dB	89 dB	91 dB	88 dB	88 dB	91 dB	92 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	44 mm	53 mm	61 mm	43 mm	46 mm	89 mm	115 mm
Cut-Out Dimensions	ø128 mm	ø121 mm	133 mm x 191 mm	95 mm x 153 mm	95 mm x 153 mm	ø186 mm	ø236 mm

* Tweeter specification

TS-R Series

TS-R6951S

400 W MAX.

NEW



6" x 9" 3-Way Speaker



TS-R1750S

250 W MAX.



17 cm 3-Way Speaker



TS-R1650S

250 W MAX.



16 cm 3-Way Speaker

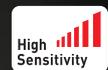


TS-R1350S

250 W MAX.



13 cm 3-Way Speaker



Key Selling Points

- **Multilayer Mica Matrix cone design delivers the ultimate listening experience with remarkable efficiency to energize loud, clear sound performance.**
- **Aggressive grille and red flange design create a strong impression even long after installation.**
- **Extra screw holes for easier installation for various cars.**
- **Mesh grill fully covered to keep out dust. Unique design suits those who dare to stand out when it comes to car lifestyle. (TS-R6951S)**

Technology of an R-Series Speaker

TS-R6951S Cut View

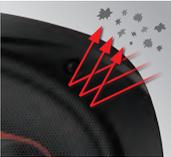
Loud & Aggressive

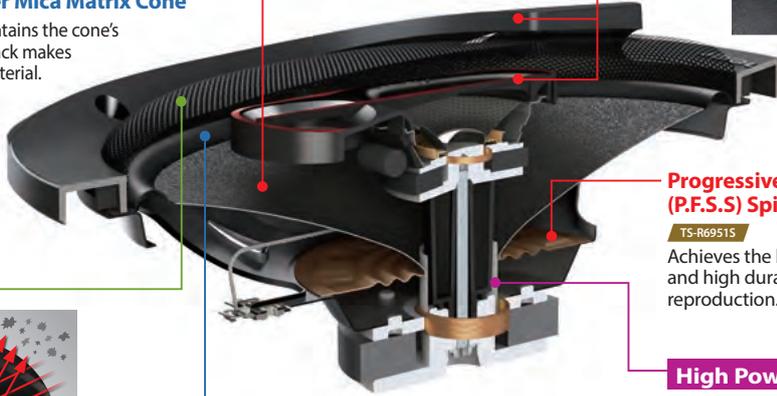
Multilayer Mica Matrix Cone
Various materials were carefully combined to develop a diaphragm of extra lightness and rigidity to reproduce sound clearly with outstanding responsiveness, sensitivity and a suitable degree of internal loss.

Microscopic Image of Multilayer Mica Matrix Cone
A surface containing mica properly maintains the cone's superior rigidity and internal loss. The back makes excellent use of light, water-resistant material.



Fully Covered Mesh Grille
TS-R6951S
Fully covered mesh grille prevents dust from entering speaker body.





MULTILAYER MICA MATRIX CONE

High Sensitivity
Light Weight Rubber Coated Cloth Surround

Aggressive Grille and Red Flange



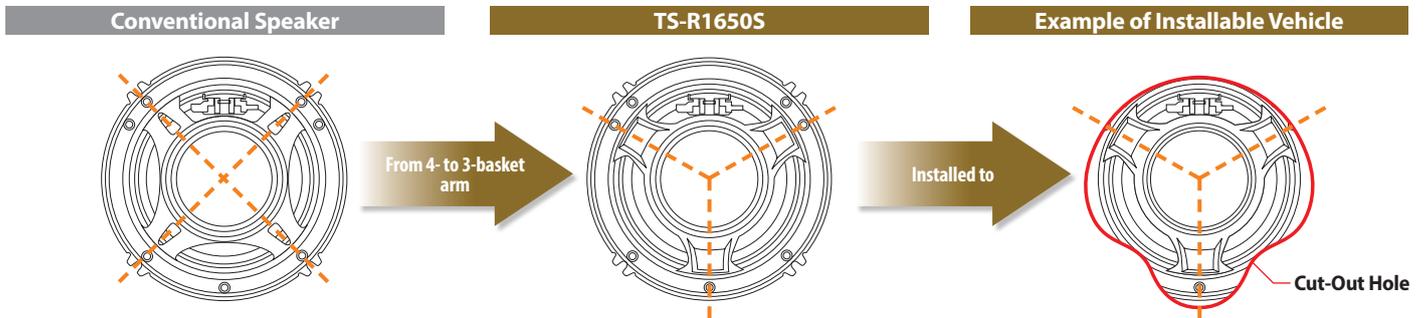
Progressive Flex Suspension System (P.F.S.S) Spider
TS-R6951S
Achieves the best balance between sound quality and high durability. This system realizes ideal sound reproduction.

High Power
Voice Coil with Aluminum Bobbin
Excellent heat dissipation and durability enhance tolerance to high input power.

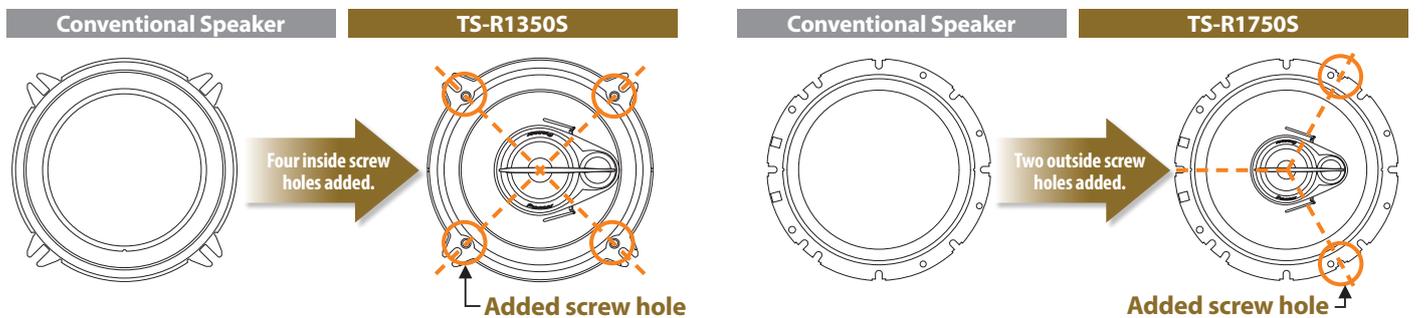
More Flexible Installation

With refined baskets and added screw holes, the TS-R speakers can be installed with greater flexibility in various cars.

Basket Design



Screw Hole



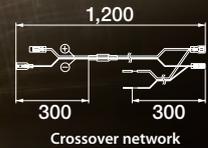
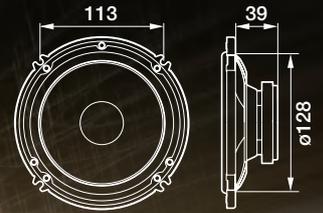
Specifications

	TS-R6951S	TS-R1750S	TS-R1650S	TS-R1350S
Size	6" x 9"	17 cm	16 cm	13 cm
Max. Music Power (Nominal)	400 W (50 W)	250 W (40 W)	250 W (40 W)	250 W (35 W)
Frequency Response	31 Hz to 35 kHz	36 Hz to 31 kHz	35 Hz to 31 kHz	44 Hz to 31 kHz
Sensitivity (1 W/1 m)	92 dB	90 dB	90 dB	89 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	68 mm	47 mm	40 mm	47 mm
Cut-Out Dimensions	153 mm x 222 mm	ø137 mm	ø128 mm	ø111 mm

TS-G1605C 280 W MAX.



16 cm Component Speaker Package



Key Selling Points

- Mica-reinforced IMPP cone reproduces natural sound with impressive bass.
- Shallow mounting depth and comprehensive lineup allow for wide applications.
- Universal cosmetic design suits a variety of automobile interior colors.

TS-G1645R 250 W MAX.

16 cm 2-Way Speaker



TS-G1345R 250 W MAX.

13 cm 2-Way Speaker



TS-G1045R 210 W MAX.

10 cm 2-Way Speaker



TS-G1615R 230 W MAX.

16 cm Dual-Cone Speaker



TS-G1315R 230 W MAX.

13 cm Dual-Cone Speaker



TS-G1015R 190 W MAX.

10 cm Dual-Cone Speaker



TS-G6932I 300 W MAX.

6" x 9" 2-Way Speaker



TS-G4645R 200 W MAX.

4" x 6" 2-Way Speaker



Technology of a G-Series Speaker

TS-G1605C Cut View

Poly-Propylene Center Cap

Rubber Coated Cloth Surround

Mica Reinforced IMPP Cone
The mica is mixed into the cone material in precise proportions to optimize cone rigidity and to reproduce impactful bass.

Poly-Imide Voice Coil Bobbin

Optimized Magnetic Circuit

Heat Resistant Voice Coil

PEI (Poly-Ether Imide) Balanced Dome Tweeter with Neodymium Magnet and Magnetic Fluid

Speedy Response!

Vivid Sound!

Speedy

Vivid

Sound Velocity (m/s)

Young's Modulus (N/m²)

Young's Modulus (N/m ²)	Sound Velocity (m/s)	Label
7.50E+09	2,400	Previous
1.05E+10	2,900	New TS-G

TS-G1645R Cut View

Rubber Coated Cloth Surround

Mica Reinforced IMPP Cone
The mica is mixed into the cone material in precise proportions to optimize cone rigidity and to reproduce impactful bass.

OFC Short Ring
Reduces a distortion, and expands a high frequency range.

Poly-Imide Voice Coil Bobbin

Optimized Magnetic Circuit

Heat Resistant Voice Coil

Specifications

	TS-G1605C	TS-G1645R	TS-G1345R	TS-G1045R	TS-G1615R	TS-G1315R	TS-G1015R	TS-G6932I	TS-G4645R
Size	16 cm 30 mm*	16 cm	13 cm	10 cm	16 cm	13 cm	10 cm	6" x 9"	4" x 6"
Max. Music Power (Nominal)	280 W (45 W)	250 W (40 W)	250 W (35 W)	210 W (30 W)	230 W (40 W)	230 W (35 W)	190 W (30 W)	300 W (40 W)	200 W (30 W)
Frequency Response	30 Hz to 28 kHz	26 Hz to 27 kHz	34 Hz to 25 kHz	38 Hz to 29 kHz	30 Hz to 25 kHz	33 Hz to 24 kHz	38 Hz to 26 kHz	27 Hz to 40 kHz	37 Hz to 26 kHz
Sensitivity (1 W/1 m)	89 dB	89 dB	86 dB	84 dB	90 dB	88 dB	86 dB	90 dB	86 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	39 mm	38 mm	44 mm	43 mm	39 mm	44 mm	43 mm	67 mm	42 mm
Cut-Out Dimensions	ø128 mm	ø128 mm	ø121 mm	ø106 mm	ø128 mm	ø121 mm	ø106 mm	153 mm x 222 mm	95 mm x 153 mm

* Tweeter specification

TS-6975 V3

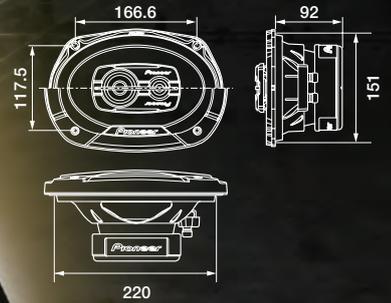
550 W MAX.

NEW



Champion series

6" x 9" 3-Way Champion Series Speaker



Key Selling Points

- Technologies inherited from Champion Series Speakers help reproduce bass with clarity, stability and presence that other 6" x 9" speakers typically cannot achieve. (TS-6975 V3/TS-6965 V3)
- Tougher at handling more high power input at higher volume without compromising higher quality. (TS-6975 V3/TS-6965 V3)
- Prestige atmosphere products advance the Champion Series Speakers heritage of toughness that's even reflected in their appearance.
- Although designed for 16 cm installation, the speaker has a cone that's actually 17 cm, for more powerful sound. (TS-1675 V2)

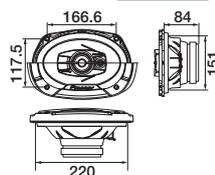
TS-6965 V3

450 W MAX.

NEW



6" x 9" 3-Way Champion Series Speaker



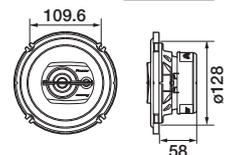
TS-1675 V2

300 W MAX.



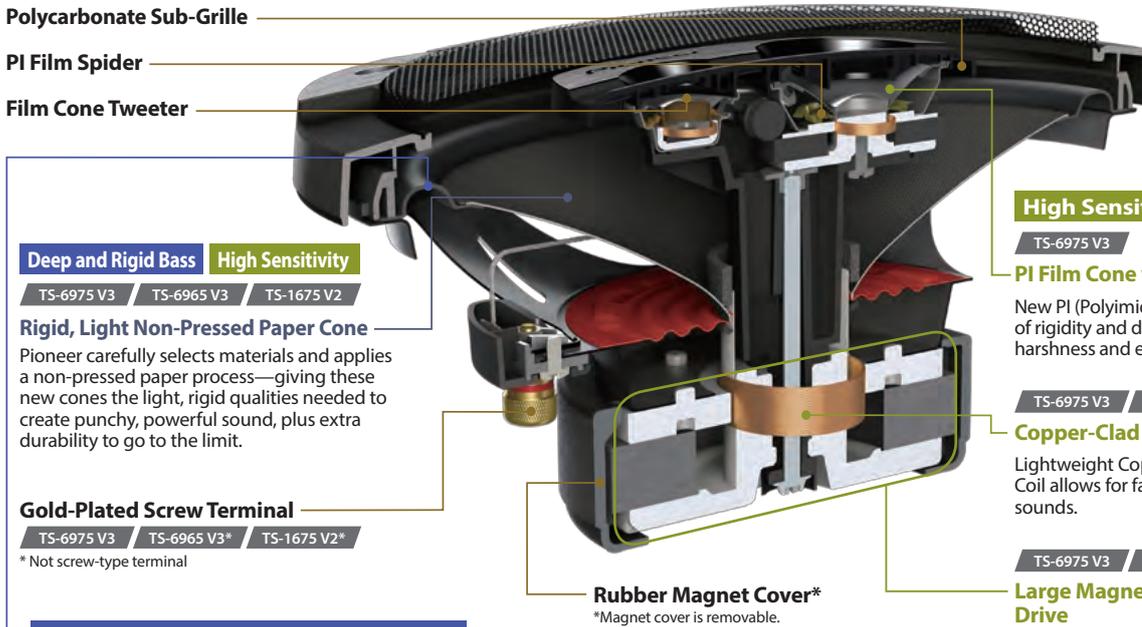
16 cm* 3-Way Champion Series Speaker

* 16 cm installation size speaker actually contains 17 cm cone size for more powerful sound.



Technology of a Champion Series Speaker

TS-6975 V3 Cut View



Deep and Rigid Bass **High Sensitivity**

TS-6975 V3 TS-6965 V3 TS-1675 V2

Rigid, Light Non-Pressed Paper Cone

Pioneer carefully selects materials and applies a non-pressed paper process—giving these new cones the light, rigid qualities needed to create punchy, powerful sound, plus extra durability to go to the limit.

Gold-Plated Screw Terminal

TS-6975 V3 TS-6965 V3* TS-1675 V2*

* Not screw-type terminal

High Sensitivity

TS-6975 V3

PI Film Cone with Urethane Surround

New PI (Polyimide) cone has great characteristics of rigidity and durability that help to reduce harshness and enhance clarity of sound.

TS-6975 V3 TS-1675 V2

Copper-Clad Aluminum Wire Voice Coil

Lightweight Copper-Clad Aluminum Wire Voice Coil allows for faithful reproduction of louder sounds.

TS-6975 V3 TS-6965 V3 TS-1675 V2

Large Magnetic Circuit for High-Power Drive

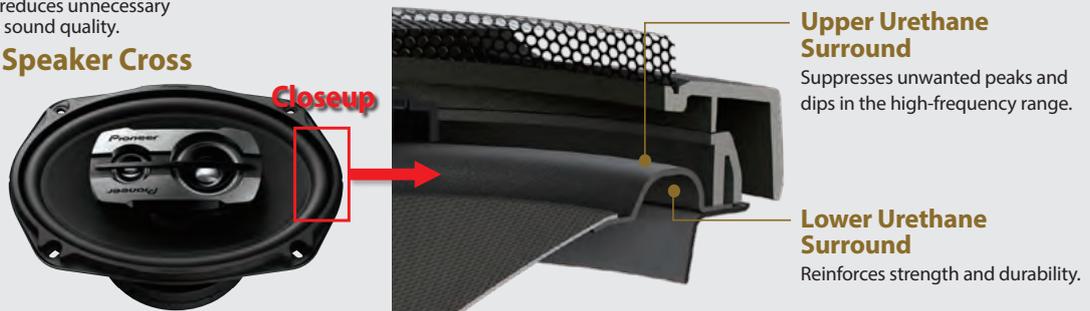
Deep and Rigid Bass

Dual Layer Urethane Surround

TS-6975 V3 TS-6965 V3 TS-1675 V2

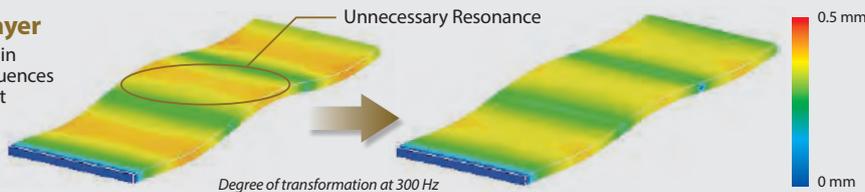
Improves cone stiffness. Greatly reduces unnecessary resonance that can compromise sound quality.

Champion Series Speaker Cross Section Detail



Conventional Single Layer

Wave-like cone vibration results in unnecessary resonance that influences tonal quality, so this cone cannot reproduce original sound linearly.



New Dual Layer

Minimizes unnecessary cone resonance for higher cone durability and clearer sound.

Larger-Than-Normal Cone for 16 cm Cutout

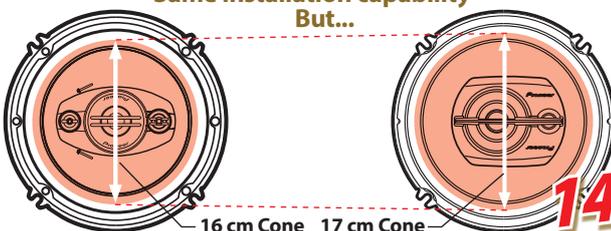
The TS-1675 V2 can be installed in a 16 cm- or 17 cm-diameter cutout hole. Superior bass response comes from a cone diameter larger than that of a conventional 16 cm speaker. Shallow basket depth enhances versatility of installation.

TS-A1683S

TS-1675 V2

Cut-Out Hole : 128 mm ← → Cut-Out Hole : 128 mm

Same installation capability
But...



14% Bigger Cone Size

Specifications

	TS-6975 V3	TS-6965 V3	TS-1675 V2
Size	6" x 9"	6" x 9"	16 cm
Max. Music Power (Nominal)	550 W (80 W)	450 W (80 W)	300 W (50 W)
Frequency Response	28 Hz to 27 kHz	23 Hz to 26 kHz	35 Hz to 20 kHz
Sensitivity (1 W/1 m)	92 dB	91 dB	92 dB
Impedance	4 Ω	4 Ω	4 Ω
Mounting Depth	92 mm	84 mm	58 mm
Cut-Out Dimensions	151 mm x 220 mm	151 mm x 220 mm	ø128 mm

TS-B350PRO

8.7 cm (3.5") Bullet Tweeter 250 W MAX.



TS-B400PRO

10 cm (4") Bullet Tweeter 500 W MAX.



TS-M650PRO

17 cm (6.5") Midbass 500 W MAX.



TS-M800PRO

20 cm (8") Midbass 700 W MAX.



TS-6900PRO

6" x 9" 2-Way Speaker 600 W MAX.



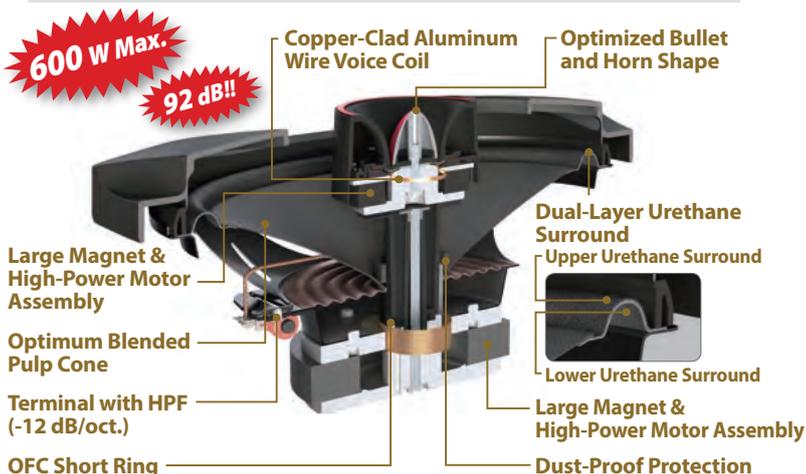
Open Show
Sound driven with higher power, sensitivity and passion for the world to hear

P.R.O.
Pioneer
Reference for
Open show

Key Selling Points

- **Open Show sound: ultra-high power handling and sensitivity of sound reproduction.**
- **Open Show design: edgy, dynamic appearance.**
- **Customize your system with any combination of Midbass, Tweeter and 6" x 9"**

6" x 9" 2-Way Speaker: TS-6900PRO Cut View



Specifications

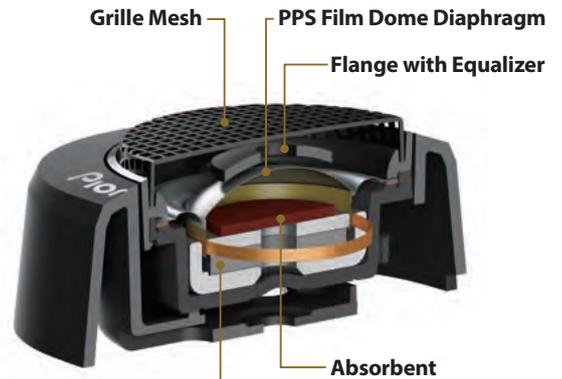
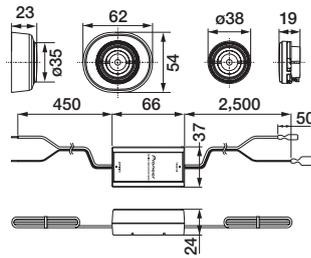
	TS-B350PRO	TS-B400PRO	TS-M650PRO
Size	8.7 cm	10 cm	17 cm
Max. Music Power (Nominal)	250 W (100 W)	500 W (200 W)	500 W (110 W)
Frequency Response	3,500 Hz to 27 kHz	2,800 Hz to 27 kHz	50 Hz to 18 kHz
Sensitivity (1 W/1 m)	100 dB	106 dB	94 dB
Impedance	4 Ω	4 Ω	4 Ω
Mounting Depth	44 mm	68 mm	81 mm
Cut-Out Dimensions	ø75 mm	ø95 mm	ø148 mm

	TS-M800PRO	TS-6900PRO
Size	20 cm	6" x 9"
Max. Music Power (Nominal)	700 W (180 W)	600 W (100 W)
Frequency Response	40 Hz to 15 kHz	20 Hz to 40 kHz
Sensitivity (1 W/1 m)	96 dB	92 dB
Impedance	4 Ω	4 Ω
Mounting Depth	93 mm	89 mm
Cut-Out Dimensions	ø184 mm	153 mm x 222 mm

TS-S20C 270 W MAX. NEW



20 mm Component Tweeter



Neodymium Magnet
Although the magnet is compact, it creates astonishingly powerful magnetic force.

Key Selling Points

- Despite its small body, the TS-S20C pushes sound with an expansive range that retains the essential character of sound reproduced by the TS-S20.
- Small body size perfectly fits OEM tweeter location.
- The external passive network properly adjusts mid-to-high transitions to maintain smooth sound without crossover frequency dips.

Technology of TS-S20C

Downsized for easy OEM replacement

Easy-to-install replacement for factory-equipped tweeter in the same position as the original tweeter.



External passive network

Controls sound allocation properly and realizes natural, smooth transitions of sound.



Design

Includes spacer for on-dash usage. Appealing design exerts distinctive presence, yet is well-suited for car interiors.



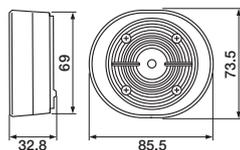
TS-S20 200 W MAX.



20 mm Component Hard-Dome Tweeter

FEATURES:

- 20 mm Amorphous-Titanium-Coated PPS (Polyphenylene Sulfide)-Dome Tweeter
- High-Performance Strontium Magnet
- Built-in LC Network: Attached at End of Speaker Cable



Specifications

	TS-S20C	TS-S20
Size	20 mm	20 mm
Max. Music Power (Nominal)	270 W (50 W)	200 W (50 W)
Frequency Response	2,200 Hz to 32 kHz	3,000 Hz*1/ 1,200 Hz*2 to 26 kHz
Sensitivity (1 W/1 m)	91 dB	92 dB
Impedance	6 Ω	8 Ω

*1. With network *2. Without network

SPEAKERS

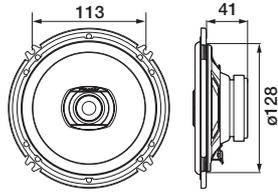
TS-F1634R 200 W MAX.



16 cm 2-Way Speaker

FEATURES:

- 16 cm IMPP Composite Cone Woofer
- 30 mm Silver PET Film Dome Tweeter
- Copper Voice Coil
- Single Blended Fabric Damper



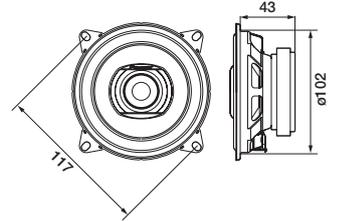
TS-F1034R 150 W MAX.



10 cm 2-Way Speaker

FEATURES:

- 10 cm IMPP Composite Cone Woofer
- 30 mm Silver PET Film Dome Tweeter
- Copper Voice Coil
- Single Blended Fabric Damper

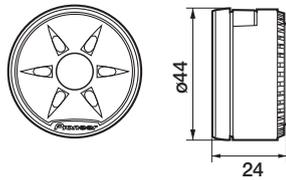


TS-S250 250 W MAX.

40 mm High-Power Tune-Up Tweeter

FEATURES:

- 40 mm Ceramic Horn Tweeter Design
- High-Power Handling of 250 W Max.
- High Sensitivity: 97 dB/W
- Built-in -6 dB/oct. Capacitor
- Large Pioneer Logo on Side Surface

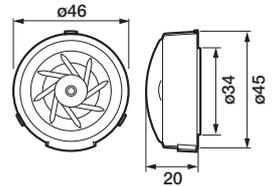


TS-T110 120 W MAX.

22 mm Component Hard Dome Tweeter

FEATURES:

- 22 mm PPTA Hard Dome Tweeter with Strontium Magnet and Magnetic Fluid
- In-Line -6 dB/Oct. Capacitor for Tweeter Protection
- Surface or Flush Mounting Capabilities



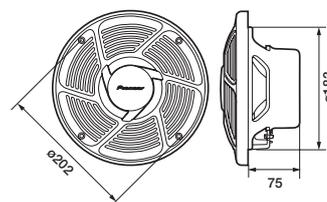
TS-MR2040 200 W MAX.



20 cm Marine-Use 2-Way Speaker

FEATURES:

- White Water-Resistant IMPP Cone Woofer
- Water-Resistant Elastomer Surround
- Glass-Imide Voice Coil Bobbin
- Conex Damper
- 20 mm PI Dome Reflex Horn Tweeter
- High-Quality Corrosion-Resistant Hardware
- Gold-Plated Terminal
- Weather-Proof and Heat-Resistant Resin



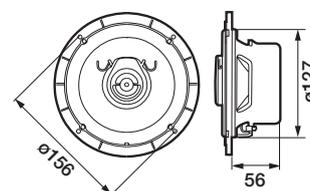
TS-MR1640 160 W MAX.



16 cm Marine-Use 2-Way Speaker

FEATURES:

- White Water-Resistant IMPP Cone Woofer
- Water-Resistant Elastomer Surround
- Glass-Imide Voice Coil Bobbin
- Conex Damper
- 27 mm PEI Balanced Dome Tweeter
- High-Quality Corrosion-Resistant Hardware
- Gold-Plated Terminal
- Weather-Proof and Heat-Resistant Resin



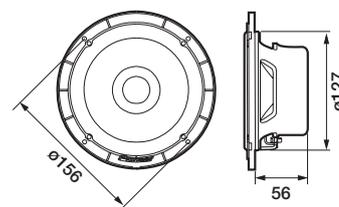
TS-MR1600 100 W MAX.



16 cm Marine-Use Dual-Cone Speaker

FEATURES:

- White Water-Resistant IMPP Cone Woofer
- Water-Resistant Elastomer Surround
- Glass-Imide Voice Coil Bobbin
- Conex Damper
- High-Quality Corrosion-Resistant Hardware
- Gold-Plated Terminal
- Weather-Proof and Heat-Resistant Resin



Specifications

	TS-F1634R	TS-F1034R	TS-S250	TS-T110	TS-MR2040
Size	16 cm	10 cm	40 mm	22 mm	20 cm
Max. Music Power (Nominal)	200 W (25 W)	150 W (20 W)	250 W (50 W)	120 W (40 W)	200 W (40 W)
Frequency Response	31 Hz to 16 kHz	45 Hz to 18 kHz	6,000 Hz to 40 kHz	2,500 Hz to 30 kHz	25 Hz to 30 kHz
Sensitivity (1 W/1 m)	88 dB	86 dB	97 dB	90 dB	92 dB
Impedance	4 Ω	4 Ω	8 Ω	4 Ω	4 Ω
Mounting Depth	41 mm	43 mm	—	—	75 mm
Cut-Out Dimensions	ø128 mm	ø102 mm	—	—	ø183 mm

	TS-MR1640	TS-MR1600
Size	16 cm	16 cm
Max. Music Power (Nominal)	160 W (30 W)	100 W (25 W)
Frequency Response	30 Hz to 30 kHz	30 Hz to 20 kHz
Sensitivity (1 W/1 m)	91 dB	90 dB
Impedance	4 Ω	4 Ω
Mounting Depth	56 mm	56 mm
Cut-Out Dimensions	ø127 mm	ø127 mm

ACCESSORIES & SPECIFICATIONS

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Accessories Connection Table with AV and Audio Receivers

ACCESSORY COMPATIBILITY

		AVH-X8850BT	AVH-X5850BT AVH-X2850BT AVH-X7850BT	AVH-X4850DVD AVH-X1850DVD AVH-X6850DVD	AVH-XL5750BT AVH-XL4750DVD	AVH-295BT AVH-195DVD MVH-AV285BT MVH-AV185	AVH-4850BT AVH-3850DVD	DVH-885AVBT	DVH-785AV DVH-345UB	DEX-P99RS	DEH-X9650BT DEH-X8750BT DEH-X7850BT DEH-X6850BT DEH-X4950BT FH-X785BT MVH-X585BT MVH-X395BT MXT-X396BT	DEH-80PRS DEH-9450UB DEH-X9650SD DEH-X7750UI DEH-X4850FD DEH-X3950BT DEH-X2950UI DEH-X5 DEH-X1 FH-X575UI MVH-X285FD MVH-X195UI MVH-X3	DEH-X1953UB DEH-X1952UB DEH-X1950UB(G) DEH-155MP(G) FH-X385UB MVH-85UB DXT-X1969UB DXT-X196UB
iPod/iPhone 	CD-IH202	*1											
	CD-IU201S	*2											
	CD-IU201V												
	CD-IU52		*3	*3	*3								
	CD-IU51												
Android 	CD-AH200	*4											
	CD-MU200	*5	*6	*6	*6						*7	*7	*7
Built-in MirrorLink™ 	CD-MU200												
Tuner*8 	GEK-2850VB2*9												
	GEK-1750VB2*9												
	GEK-1750DVB*9												
	GEK-1550TV*9												
Back Up Camera 	ND-BC8	*10							DVH-785AV				
	ND-BC20PA	*10							DVH-785AV				
System 	CD-MC20												
Remote Control*11 	CD-R320												
	CD-SR110				AVH-XL5750BT <small>(Except AVH-195DVD and MVH-AV185)</small>								
	CD-SR100												

Note: Some functions may be limited in terms of remote controllability, even if the receiver and remote control are denoted as compatible in the chart.

*1. Required when AppRadio Mode is in use with iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5 or 5th generation iPod touch. Requires Apple Lightning Digital AV Adapter and CD-IU52 (sold separately).

*2. Required when AppRadio Mode is in use with iPhone 4/4s or 4th generation iPod touch.

*3. Required when AppRadio Mode USB is in use with iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5 or 5th generation iPod touch.

*4. Required when AppRadio Mode is in use with Android phone.

*5. Required when Android Auto is in use with Android phone.

*6. Required when AppRadio Mode USB is in use with Android phone.

*7. Required when USB Direct Control is in use with Certain Android phones.

*8. May not be compatible with certain receivers.

*9. The compatibility for each TV Tuner depends on the broadcasting system of your country.

*10. Can display the parking assist guidelines.

*11. Not all functions can be operated using the remote control.

Audio/Video Receiver Accessories

ND-BC8

Universal Rear View Camera



ND-BC20PA

ND-BC2 with Parking Assistant Feature



GEX-2850DVB2

Dual Diversity DVB-T2 TV Receiver



GEX-1750DVB2

HD DVB-T2 Digital TV Receiver



GEX-1750DVB

HD DVB-T Digital TV Receiver



GEX-1550TV

Analog TV Tuner for PAL/SECAM/NTSC



CD-MC20

Microphone for Auto EQ and Auto Time Alignment Frequency Band Fine-Tuning



Remote Controls

CD-R510

Remote Control

• For use with receiver with Bluetooth wireless technology.



CD-R320

Optional Remote Control for DEH Series Receivers



CD-SR110

Steering Wheel Remote Control for Bluetooth Receivers



CD-SR100

Steering Wheel Remote Control



Android Connectivity

CD-AH200

AppRadio Mode App Connectivity Kit for Android



Note: Please refer to pages 96 and 100 for accessories for connection of Android details.

Smartphone Connectivity

CD-MU200*

USB Interface Cable for AppRadio Mode USB, Android Use with Android Auto™ and MirrorLink™ Devices (USB-USB Cable: 1.5 m/USB-microUSB Cable: 50 cm)



* Availability of receiver's features depends on type of smartphone connected.

Auxiliary Input Accessory

CD-RM10

AUX Mini-Plug to Composite A/V Cable (2 m)



iPod/iPhone Connectivity

CD-IH202

AppRadio Mode HDMI/USB Interface Cable for iPod/iPhone with Lightning Connector



CD-IU201S

AppRadio Mode USB Interface Cable for iPhone 4, iPhone 4s, or 4th Generation iPod touch (USB Cable: 50 cm/RGB Cable: 2 m)



CD-IU51V

USB Interface Cable for iPod/iPhone (USB and AUX Cable: 50 cm)



CD-IU51

USB Interface Cable for iPod/iPhone (50 cm)



CD-IU201V

USB Interface Cable for iPod/iPhone (USB and AUX Cable: 50 cm/ AUX Extension Cable: 1.5 m)



CD-IU52

USB Interface Cable for iPod/iPhone with Lightning Connector (50 cm)



CD-V150M

Mini-Jack Cable for iPod (1.5 m)



Note: Please refer to pages 96 and 100 for accessories for connection of iPod/iPhone details.

Note: Accessories are for products that appear in the Dealer Reference Guide. Please refer to a Pioneer sales representative for up-to-date information.

SPECIFICATIONS

AV Receivers Features Comparison

	AVH-X850BT	AVH-X850BT	AVH-X4850DVD	AVH-X2850BT	AVH-X1850DVD	AVH-295BT	AVH-1950VD	AVH-X7850BT	AVH-X6850DVD	AVH-4850BT	AVH-3850VD	AVH-XL750BT	AVH-XL4750VD	MVH-AV285BT	MVH-AV183	DVH-885AVBT	DVH-785AV	DVH-345UB
Display																		
Screen Size/Aspect Ratio	7"16:9	7"16:9	7"16:9	6.2"16:9	6.2"16:9	6.2"16:9	6.2"16:9	7"16:9	7"16:9	7"16:9	7"16:9	7"16:9	7"16:9	6.2"16:9	6.2"16:9	3.5"16:9	3"16:9	
Resolution	WVGA (800 x 480)	WVGA (800 x 480)	WVGA (800 x 480)	WVGA (800 x 480)	WVGA (800 x 480)	WVGA (800 x 480)	WVGA (800 x 480)	WVGA (800 x 480)	WVGA (800 x 480)	WVGA (800 x 480)	WVGA (800 x 480)	QVGA (480 x 240)	QVGA (480 x 240)					
LED Backlight	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Background Picture and Video	5 BGP, 3 BGV	5 BGP, 2 BGV	1 BGP	1 BGP	5 BGP, 2 BGV	5 BGP, 2 BGV			5 BGP, 2 BGV	5 BGP, 2 BGV	1 BGP	1 BGP						
Spectrum Analyzer	x	x	x	x	x	x	x	x	x									
Touch Panel Operation	x (Clear Type Resistive Panel)	x (Clear Type Resistive Panel)	x (Clear Type Resistive Panel)	x (Clear Type Resistive Panel)	x (Clear Type Resistive Panel)	x (Clear Type Resistive Panel)	x (Clear Type Resistive Panel)	x (Clear Type Resistive Panel)	x (Clear Type Resistive Panel)	x (Clear Type Resistive Panel)	x (Clear Type Resistive Panel)							
Motorized Display	x	x	x															
Selected Angle Setting	x	x	x															
Last Angle Memory	x	x	x															
CD/DVD/USB/SD Memory Card/Bluetooth/iPod/Android/Media Playback																		
CD-R/CD-RW/Video CD/DVD-R/DVD-RW/DVD-Video Playback	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
SD/SDHC Memory Card Slot	x																	
USB Port ¹	Rear x 2 (1 Amp)	Rear (1 Amp)	Rear (1 Amp)	Rear (1 Amp)	Rear (1 Amp)	Rear (1 Amp)	Rear (1 Amp)	Rear (1 Amp)	Rear (1 Amp)	Front ²	Front ²	Rear (1 Amp)	Rear (1 Amp)	Rear (1 Amp)	Rear (1 Amp)	Front ²	Front ²	Front ²
AUX Input (3.5 mm mini-jack)	Rear (Audio/Video)	Rear (Audio/Video)	Rear (Audio/Video)	Rear (Audio/Video)	Rear (Audio/Video)	Front (Audio/Video)	Front (Audio/Video)	Rear (Audio/Video)	Rear (Audio/Video)	Rear (Audio/Video)	Rear (Audio/Video)	Front (Audio/Video)	Front (Audio/Video)	Front (Audio/Video)				
Built-in Bluetooth ³	HPF/A2DP/AVRCP/SSP/SPP	HPF/A2DP/AVRCP/SSP/SPP		HPF/A2DP/AVRCP/SSP/SPP		HPF/A2DP/AVRCP/SSP/SPP		HPF/A2DP/AVRCP/SSP/SPP	HPF/A2DP/AVRCP/SSP/SPP	HPF/A2DP/AVRCP/SSP/SPP		HPF/A2DP/AVRCP/SSP/SPP	HPF/A2DP/AVRCP/SSP/SPP		HPF/A2DP/AVRCP/SSP/SPP	HPF/A2DP/AVRCP/SSP/SPP	HPF/A2DP/AVRCP/SSP/SPP	
Siri Eyes Free	x	x	x	x	x													
AppRadio Mode ⁴	iPhone/Android ⁵			iPhone/Android ⁵	iPhone/Android ⁵			iPhone/Android ⁵	iPhone/Android ⁵									
App Mode	iPhone	iPhone	iPhone	iPhone	iPhone			iPhone	iPhone			iPhone	iPhone					
Apple CarPlay Compatible ⁶	x																	
Android Auto Compatible ⁷	x																	
Direct Control for iPod/iPhone ⁸	USB/Bluetooth	USB/Bluetooth	USB	USB/Bluetooth	USB	USB	USB	USB/Bluetooth	USB			USB/Bluetooth	USB	USB	USB	USB	USB	USB ⁹
Direct Control for Certain Android Phones ¹⁰	Bluetooth	USB/Bluetooth	USB	USB/Bluetooth	USB			USB/Bluetooth	USB			USB/Bluetooth	USB					Bluetooth
Control for Android Phones with CarMediaPlayer App																		x
Spotify ¹¹		iPhone/Android	iPhone	iPhone/Android	iPhone			iPhone/Android	iPhone									
Built-in MirrorLink ¹²														x	x			
Link Search	x	x	x	x	x					x	x			x	x			
MP3/WMA/iTunes AAC Playback	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	USB	USB	USB	USB	DVD/CD/USB (MP3/WMA)
WAV Playback	SD/USB	USB	USB	USB	USB	USB	USB	USB	USB	USB	USB	USB	USB	USB	USB	USB	USB	USB
FLAC Playback	USB	USB	USB	USB	USB	USB	USB	USB	USB	USB	USB	USB	USB	USB	USB	USB	USB	USB
DivX [®] Video Playback	DVD/CD	DVD/CD	DVD/CD	DVD/CD	DVD/CD	DVD/CD	DVD/CD	DVD/CD	DVD/CD	DVD/CD	DVD/CD	DVD/CD	DVD/CD	USB	USB	USB	USB	DVD/CD/USB
WMV Playback	SD/USB																	DVD/CD/USB
MPEG-4 Playback	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	DVD/CD/USB	USB	USB	USB	USB	DVD/CD/USB
H.264/FLV Playback	SD/USB	USB (H.264)	USB (H.264)	USB (H.264)	USB (H.264)			USB (H.264)	USB (H.264)			USB (H.264)	USB (H.264)					DVD/CD/USB
Linear PCM Decoder	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Dolby [®] Digital Decoder	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
DVD Chapter/Title Direct Search	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
DVD Chapter/Title/Disc Repeat	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
DVD Auto Play	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Repeat (Disc/Title)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Tuner																		
Supertuner [®] III	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
24 Stations/6 Presets	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BSM (Best Stations Memory)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Local Seek Tuning	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
RDS	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Audio																		
Built-in Amplifier	MOSFET 50W x 4	MOSFET 50W x 4	MOSFET 50W x 4	MOSFET 50W x 4	MOSFET 50W x 4	MOSFET 50W x 4	MOSFET 50W x 4	MOSFET 50W x 4	MOSFET 50W x 4	MOSFET 50W x 4	MOSFET 50W x 4	MOSFET 50W x 4	MOSFET 50W x 4	MOSFET 50W x 4				
Hi-Volt RCA Preouts	3 (4V)			3 (4V)	3 (4V)			3 (2V)	3 (2V)	3 (4V)	3 (4V)							
RCA Preouts						2 (2V)	2 (2V)									2 (2V)	2 (2V)	2 (2V)
D/A Converter	96 kHz/24-bit			96 kHz/24-bit	96 kHz/24-bit			96 kHz/24-bit	96 kHz/24-bit			96 kHz/24-bit	96 kHz/24-bit	96 kHz/24-bit				
Specialized Audio Parts	x	x	x	x	x													
Auto EQ & Auto Time Alignment (CD-MC20 Required)	x	x	x	x	x			x	x					x	x			
3-Way Network Mode (High/Mid/Low)	x	x	x	x	x			x	x									
Crossover Network	HPF/LPF	HPF/LPF	HPF/LPF	HPF/LPF	HPF/LPF	HPF/LPF	HPF/LPF	HPF/LPF	HPF/LPF			HPF/LPF	HPF/LPF	HPF/LPF	HPF/LPF	HPF/LPF	HPF/LPF	HPF/LPF
Equalizer	13-Band Graphic	5-Band Graphic	5-Band Graphic	13-Band Graphic	13-Band Graphic	Bass/Mid/Treble	Bass/Mid/Treble	13-Band Graphic	13-Band Graphic	5-Band Graphic	5-Band Graphic	Bass/Mid/Treble	Bass/Mid/Treble	Bass/Mid/Treble				
Advanced Sound Retriever	x	x	x	x	x			x	x					x	x			x
SR Air	x	x	x	x	x			x	x					x	x			x
Subwoofer Control	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
MIXTRAX																		
MIXTRAX ¹³	x																	
MIXTRAX EZ ¹⁴	x	x	x	x	x			x	x					x	x			
MIXTRAX App Control	x																	
General																		
Pioneer TV Tuner Ready (GX-3850VB2/GX-1750DVD2/GX-1750DV8/GX-1550TV)	x	x	x	x	x			x	x									
Rear-View Camera Input ¹⁵	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Composite A/V Input	1 (Audio/Video)	1 (Audio/Video)	1 (Audio/Video)	1 (Audio/Video)	1 (Audio/Video)	1 (Audio/Video)	1 (Audio/Video)	1 (Audio/Video)	1 (Audio/Video)	1 (Audio/Video)	1 (Audio/Video)	1 (Audio/Video)	1 (Audio/Video)	1 (Audio/Video)				
Composite Video Output	1	1	1	1	1			1	1			1	1	1	1	1	1	1
HDMI Input	x																	
RGB Input	x	x	x	x	x			x	x					x	x			
Dual Zone Audio/Video	x																	
Color Customization	5-Display Colors 112-Key Colors	3-Display Colors	3-Display Colors	5-Display Colors 112-Key Colors	5-Display Colors 112-Key Colors			5-Display Colors 112-Key Colors	5-Display Colors 112-Key Colors	3-Display Colors	3-Display Colors	2 Colors (Red/Blue)						
Power Off Mode	x	x	x	x	x			x	x									
Display Off Mode	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
JPEG Slide Show ¹⁶	SD/USB	USB	USB	USB	USB	USB	USB	USB	USB			USB	USB	USB	USB	USB	USB	USB
Multi-Language Display	Menu/ID3 Tag ¹⁵	Menu/ID3 Tag ¹⁵	Menu/ID3 Tag ¹⁵	Menu/ID3 Tag ¹⁵	Menu/ID3 Tag ¹⁵	Menu/ID3 Tag (English/Spanish/Portuguese/Russian)	Menu/ID3 Tag (English/Spanish/Portuguese/Russian)	Menu/ID3 Tag ¹⁵	Menu/ID3 Tag ¹⁵	Menu/ID3 Tag ¹⁵	Menu/ID3 Tag ¹⁵	Menu/ID3 Tag ¹⁵	Menu/ID3 Tag ¹⁵	Menu/ID3 Tag ¹⁵				
Rotary Volume Control	x	x	x	x	x			x	x									
Wired Remote Input	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Remote Control	x	x	x	x	x	x ¹⁷	x ¹⁷	x	x	x	x	x	x	x	x	x	x	x
Steering Wheel Control Function Expansion	x	x	x	x	x			x	x									
Learning Steering Wheel Control	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
USB Quick Charge for Android (CDP)	x	x	x	x	x			x	x									
Detachable Face Security ¹⁸	x							x	x									x

*1. Pioneer cannot guarantee compatibility with all USB mass storage devices and assumes no responsibility for any loss of data on media players, smart phones, or other devices while using receiver.

*2. Please use CD-USB USB extension cable if a direct connection causes a USB Device to protrude from the receiver in a way that can interfere with driving.

*3. HFP = Hands-Free Profile, A2DP = Advanced Audio Distribution Profile, AVRCP = Audio/Video Remote Control Profile, SSP = Secure Simple Profile, SPP = Serial Port Profile. Please refer to instruction manual for other information about profile compatibility.

SPECIFICATIONS

The Best Solutions To Enjoy iPod & Android Connection Table for iPod/iPhone with Pioneer Receivers

Model	Interface	Use with	iPhone ^{#1}		iPod	iPod classic	iPod touch ^{#1}				iPod nano					
			iPhone ^{#2}	iPhone 3G iPhone 3GS	iPhone 4 iPhone 4s	5th gen.	160GB (2007/2009) 120GB 80GB	1st gen. ^{#2}	2nd gen.	3rd gen.	4th gen.	1st/2nd gen.	3rd gen.	4th gen.	5th gen.	6th gen.
AVH-X8850BT	USB Direct Connection for Video, Music and AppRadio Mode	CD-IU201S ^{#3}														
	USB Direct Connection for Video and Music	CD-IU201V		(iPhone 3GS only)												
AVH-X8850BT/AVH-X4850DVD/AVH-X2850BT/AVH-X1850DVD/AVH-X7850BT/AVH-X6850DVD/AVH-XL5750BT/AVH-XL4750DVD	USB Direct Connection for Video and Music	CD-IU201V		(iPhone 3GS only)												
AVH-295BT/AVH-195DVD/MVH-AV285BT/MVH-AV185	USB Direct Connection for Video and Music	CD-IU201V		(iPhone 3GS only)												
AVH-4850BT/AVH-3850DVD	AUX	3.5 mm AUX Cable														
DVH-885AVBT	USB Direct Connection for Music	CD-IU51		(iPhone 3GS only)												
	AUX	3.5 mm AUX Cable														
DVH-785AV	AUX	3.5 mm AUX Cable														
DVH-345UB	AUX	3.5 mm AUX Cable														
DEH-P99RS/DEH-80PRS/DEH-9450UB	USB Direct Connection for Music	CD-IU51														
DEH-X9650BT/DEH-X9650SD/DEH-X8750BT/DEH-X7850BT/DEH-X7750UI/DEH-X6850BT/DEH-X4850BT/DEH-X4850FD/DEH-X3950BT/DEH-X2950UI/DEH-X5/DEH-X1/FH-X785BT/FH-X575UI/MVH-X385BT/MVH-X395BT/MVH-X285FD/MVH-X195UI/MVH-X3/MXT-X396BT	USB Direct Connection for Music	CD-IU51														
DEH-X1953UB/DEH-X1952UB/DEH-X1950UB(G)/DEH-155MP(G)/FH-X385UB/MVH-85UB/DXT-X1969UB/DXT-X196UB	AUX	3.5 mm AUX Cable														

- Operations may vary depending on the software version of iPod and iPhone.
 - Depending on the generation or version of the iPod, some functions can not be operated.
 - Please contact Pioneer Support Center for more details regarding connection.
- *1. When an error occurs in connection with iPod and iPhone, switching ACC ON/OFF or reloading the iPod and iPhone may help recovery.
 *2. Version 2.0 or later software is required when operating the receiver to browse video.
 *3. When AppRadio Mode is in use, AppRadio App is available from iTunes App Store. Please use in Internet connection situations. AppRadio App & Compatible Apps may not be available in some countries.
 *4. Media App Control and App Mode Available. You can enjoy music using apps installed in iPhone and iPod touch. In Media App Control and App Mode, operability of app on receiver's display is limited. Pioneer Receiver can play audio content from an iPod touch or iPhone with an app that outputs audio signals. Not every app, however, is compatible with Media App Control and App Mode.

iPhone 5s, iPhone 5c, iPhone 5, iPhone 6, iPhone 6 Plus, 5th generation iPod touch, and 7th generation iPod nano

Model	Interface	Use with	iPhone		iPod touch	iPod nano
			iPhone 5	iPhone 5c, iPhone 5s	iPhone 6, iPhone 6 Plus	5th gen.
AVH-X8850BT	HDMI/USB Direct Connection for Video, Music and AppRadio Mode	CD-IH202 ^{#1} #2				
	USB Direct Connection for Music	CD-IU52				
AVH-X8850BT/AVH-X4850DVD/AVH-X2850BT/AVH-X1850DVD/AVH-X7850BT/AVH-X6850DVD/AVH-XL5750BT/AVH-XL4750DVD	USB Direct Connection for Video, Music and AppRadio Mode USB	CD-IU52 ^{#2}				
AVH-295BT/AVH-195DVD/MVH-AV285BT/MVH-AV185	USB Direct Connection for Music	CD-IU52				
DVH-885AVBT	USB Direct Connection for Music	CD-IU52				
AVH-4850BT/AVH-3850DVD/DVH-785AV/DVH-345UB	AUX	3.5 mm AUX Cable				
DEH-X9650BT/DEH-X9650SD	USB Direct Connection for Music	CD-IU52				
DEH-X8750BT/DEH-X7750UI/FH-X575UI	USB Direct Connection for Music	CD-IU52				
DEH-X7850BT/DEH-X6850BT/DEH-X4850BT/DEH-X4850FD/DEH-X3950BT/DEH-X2950UI/DEH-X5/DEH-X1/FH-X785BT/MVH-X385BT/MVH-X395BT/MVH-X285FD/MVH-X195UI/MVH-X3/MXT-X396BT	USB Direct Connection for Music	CD-IU52				
DEH-P99RS/DEH-80PRS/DEH-9450UB/DEH-X1953UB/DEH-X1952UB/DEH-X1950UB(G)/DEH-155MP(G)/FH-X385UB/MVH-85UB/DXT-X1969UB/DXT-X196UB	AUX	3.5 mm AUX Cable				

- *1. Requires Apple® Lightning Digital AV Adapter and Apple Lightning to USB Cable (sold separately).
- *2. When AppRadio Mode and AppRadio Mode USB are in use, AppRadio App is available from iTunes App Store. Please use in Internet connection situations. AppRadio App & Compatible Apps may not be available in some countries.
- *3. Media App Control Available. You can enjoy music using apps installed in iPhone and iPod touch. In Media App Control, operability of app on receiver's display is limited. Pioneer Receiver can play audio content from an iPod touch or iPhone with an app that outputs audio signals. Not every app, however, is compatible with Media App Control.

Connection Table for Android Devices with Pioneer Receivers



Model	Connection via	Connection via				
		CD-AH200 ^{#1}	CD-MU200 ^{#1}	Bluetooth ^{#2}	USB ^{#3}	AUX
AVH-X8850BT	Smartphone Compatible					
AVH-X8850BT/AVH-X2850BT/AVH-X7850BT/AVH-XL5750BT	Smartphone Compatible					
AVH-X4850DVD/AVH-X1850DVD/AVH-X6850DVD/AVH-XL4750DVD	Smartphone Compatible					
AVH-4850BT/AVH-295BT/MVH-AV285BT	Smartphone Compatible					
DVH-885AVBT	Smartphone Compatible					
AVH-195DVD/AVH-3850DVD/MVH-AV185/DVH-785AV/DVH-345UB	Smartphone Compatible					
DEH-X9650BT/DEH-X8750BT	Smartphone Compatible					
DEH-X7850BT/DEH-X6850BT/DEH-X4850BT/DEH-X3950BT/DEH-X5/FH-X785BT/MVH-X385BT/MVH-X395BT/MVH-X3/MXT-X396BT	Smartphone Compatible					
DEH-X9650SD/DEH-X7750UI/FH-X575UI	Smartphone Compatible					
DEH-X4850FD/DEH-X2950UI/DEH-X1953UB/DEH-X1952UB/DEH-X1950UB(G)/DEH-X1/FH-X385UB/MVH-X285FD/MVH-X195UI/MVH-85UB/DXT-X1969UB/DXT-X196UB	Smartphone Compatible					
DEH-P99RS/DEH-80PRS/DEH-9450UB/DEH-155MP(G)	Smartphone Compatible					

- *1. When AppRadio Mode and AppRadio Mode USB are in use, AppRadio App is available from Google Play. Please use in Internet connection situations. AppRadio App & Compatible Apps may not be available in some countries.
- *2. Audio is transmitted via A2DP (Advanced Audio Distribution Profile). Audio is controlled via AVRCP (Audio/Video Remote Control Profile) and limited accordingly.
- *3. USB Direct Control for Certain Android Phones is available (via MTP Mode). The connectivity depends on OS version, number of files stored on an Android Phone, etc.

General Information about Subwoofer Connection

Important Caution against Improper Connection

Examples shown here indicate theoretical impedance values in the connections. Properly connect subwoofer(s) to amplifier according to the amplifier's compatible speaker impedance range.

Avoid improper connection which may cause the product to overheat, malfunction or even ignite.

Single Voice Coil (SVC)

Connection Examples

Series and parallel connections apply to subwoofer(s).

Single Subwoofer Connection

1 SVC



- 2 Ohm Subwoofer: 2 Ohm
- 4 Ohm Subwoofer: 4 Ohm

Multiple Subwoofer Connection

2 SVC



Series (+)

- 2 Ohm Subwoofers: 4 Ohm
- 4 Ohm Subwoofers: 8 Ohm

Parallel (II)

- 2 Ohm Subwoofers: 1 Ohm
- 4 Ohm Subwoofers: 2 Ohm

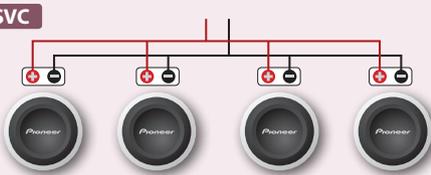
3 SVC



Parallel (II)

- 4 Ohm Subwoofers: 1.33 Ohm

4 SVC



Parallel (II)

- 4 Ohm Subwoofers: 1 Ohm

Dual Voice Coil (DVC)

Connection Examples

Series and parallel connections apply to subwoofer(s).

Single Subwoofer Connection

1 DVC



Series (+)

- Dual 2 Ohm Subwoofer: 4 Ohm
- Dual 4 Ohm Subwoofer: 8 Ohm



Parallel (II)

- Dual 2 Ohm Subwoofer: 1 Ohm
- Dual 4 Ohm Subwoofer: 2 Ohm

Multiple Subwoofer Connection

In theory, there are four main connection patterns (below). In practice, however, you should choose connection method in consideration of the proper balance between amplifier's impedance and subwoofer's combined impedance.

1. All voice coils are in series connection
2. Voice coil is in series connection, and subwoofers are in parallel connection
3. Voice coil is in parallel connection, and subwoofers are in series connection
4. All voice coils are in parallel connection

2 DVC



Series (+)-Parallel (II) Connection

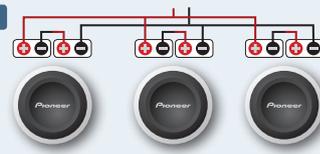
- 2 Ohm Subwoofers: 2 Ohm
- 4 Ohm Subwoofers: 4 Ohm



Parallel (II)-Parallel (II) Connection

- 2 Ohm Subwoofers: 0.5 Ohm
- 4 Ohm Subwoofers: 1 Ohm

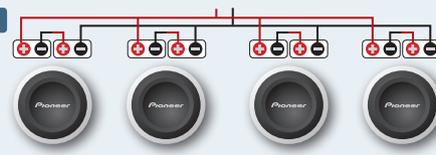
3 DVC



Series (+)-Parallel (II) Connection

- 2 Ohm Subwoofers: 1.33 Ohm
- 4 Ohm Subwoofers: 2.67 Ohm

4 DVC



Series (+)-Parallel (II) Connection

- 2 Ohm Subwoofers: 1 Ohm
- 4 Ohm Subwoofers: 2 Ohm

Calculating Impedance

Series (+) Wiring: The more subwoofers connected within the circuit, the higher the total impedance.

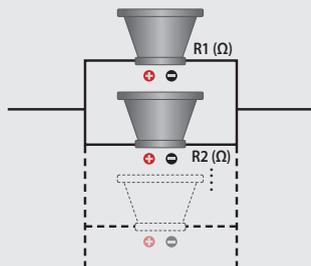


$$R1 (\Omega) + R2 (\Omega) + \dots + Rn (\Omega) = Rt (\Omega)$$

Example with 2 subwoofers:

- 4 Ω subwoofer: $4 \Omega + 4 \Omega = 8 \Omega$
- 2 Ω subwoofer: $2 \Omega + 2 \Omega = 4 \Omega$

Parallel (II) Wiring: The more subwoofers connected within the circuit, the lower the total impedance.



$$\frac{1}{\frac{1}{R1 (\Omega)} + \frac{1}{R2 (\Omega)} + \dots + \frac{1}{Rn (\Omega)}} = Rt (\Omega)$$

Example with 2 subwoofers:

4 Ω subwoofer:

$$\frac{1}{\frac{1}{4 \Omega} + \frac{1}{4 \Omega}} = 2 \Omega$$

2 Ω subwoofer:

$$\frac{1}{\frac{1}{2 \Omega} + \frac{1}{2 \Omega}} = 1 \Omega$$

Amplifiers Features Comparison

	PRS-A900	PRS-D800	GM-D9605	GM-D9604	GM-D9601	GM-D8604	GM-D8601	GM-D1004	GM-A6704	GM-A4704	GM-A5702	GM-A3702
Amplifier Class		Class-FD	Class-FD*1	Class-FD	Class-D	Class-FD	Class-D	Class-FD				
Current Feedback Amplifier	x											
Load Impedance Allowance (Ω)	2 to 8	2 to 8	2 to 8	1 to 8	1 to 8	1 to 8	1 to 8	2 to 8	2 to 8	2 to 8	2 to 8	2 to 8
Bridgeable	x	x	x*2	x		x		x*3	x	x	x	x
4-Layered Circuit Board		x										
L/R Independent Power Supply	x											
L/R Symmetric Layout Circuit	x											
Protection Control System			x	x	x	x	x					
MOSFET Output Section		x	x	x	x	x	x					
PWM Regulated MOSFET	x	x										
Balanced Isolator Input Circuit	x	x	x	x	x	x	x	x	x	x	x	x
High Grade Bipolar Transister	x											
RCA Inputs	4-Ch. (Gold-Plated)	2-Ch. (Gold-Plated)	6-Ch.	4-Ch.	2-Ch.	4-Ch.	2-Ch.	4-Ch.	4-Ch.	4-Ch.	2-Ch.	2-Ch.
RCA Outputs (Pass-Through)				x (A-Ch.)	x	x (A-Ch.)	x					
Speaker Level Input			x	x	x	x	x	x	x	x	x	x
Automatic Signal Sensing and Turn-On			x	x	x	x	x	x	x	x	x	x
Hi-Volt Input Level Control (400 mV to 6.5 V)	x L/R independent	x A/B independent										
Hi-Volt Input Level Control (300 mV to 6.5 V)									x	x	x	x
Hi-Volt Input Level Control (200 mV to 6.5 V)			x	x	x	x	x					
Block-Type Terminal	Power/Ground Terminals Speaker Terminals	x**4 (Gold-Plated)	x**4	x**4	x**4	x**4	x**4	x**4				
Screw-Type Terminal	Power/Ground Terminals Speaker Terminals		x (Ground: Gold-Plated)						x	x	x	x
Lock-Type Terminal	Power/Ground/ Speaker Terminals		x (Gold-Plated)					x				
Removable Terminal/Settings Cover	x	x										
Crossover Type			Variable HPF*/ LPF	Variable HPF/ LPF	Variable LPF	Variable HPF/ LPF	Variable LPF	HPF/LPF	A-Ch.: Variable HPF/LPF B-Ch.: HPF/LPF	A-Ch.: Variable HPF/LPF B-Ch.: HPF/LPF	Variable LPF	LPF
Crossover Frequency			40 Hz to 500 Hz	40 Hz to 500 Hz	40 Hz to 240 Hz	40 Hz to 500 Hz	40 Hz to 240 Hz	80 Hz	A-Ch.: HPF (40 Hz to 500 Hz)/LPF (80 Hz) B-Ch.: 80 Hz	A-Ch.: HPF (40 Hz to 500 Hz)/LPF (80 Hz) B-Ch.: 80 Hz	40 Hz to 500 Hz	80 Hz
Crossover Slope			-12 dB/oct. (A-/B-Ch.), -12/-24 dB/oct. (Subwoofer-Ch.)	-12 dB/oct.	-12 dB/oct.	-12 dB/oct.	-12 dB/oct.	-12 dB/oct.	-12 dB/oct.	-12 dB/oct.	-12 dB/oct.	-12 dB/oct.
Bass Boost Frequency			50 Hz (Subwoofer-Ch.)	50 Hz	50 Hz	50 Hz	50 Hz		50 Hz		50 Hz	
Bass Boost Level			0 dB to 18 dB (Subwoofer-Ch.)	0 dB to 18 dB	0 dB to 18 dB	0 dB to 18 dB	0 dB to 18 dB		0/6/12 dB		0/6/12 dB	
Bass Boost Remote			x (Subwoofer-Ch.)	x (B-Ch.)	x	x (B-Ch.)	x					

*1. Class-FD output for A-ch. and B-ch. and Class-D output for subwoofer-ch. *2. Bridgeable for A-ch. and B-ch. only. *3. For the UC model only. See page 58 for details. *4. 4 to 8-gauge *5. 12 to 18-gauge *6. 8 to 16-gauge *7. HPF: For A-ch. and B-ch. only.

Note: The "Class-FD" stands for "Full Range Class-D". Incorporating Pioneer-developed Class-D circuit, the Class-FD amplifiers deliver superior performance and sound quality.

Amplifiers Specifications

	PRS-A900	PRS-D800	GM-D9605	GM-D9604	GM-D9601
Number of Channels	4/3/2	2/1	5/4/3/2	4/3/2	Mono
Max. Wattage (4 Ω)	100 W x 4	250 W x 2	150 W x 4 (A-/B-Ch.)/700 W x 1 (Subwoofer-Ch.)	260 W x 4	1,000 W x 1
Max. Wattage (2 Ω)	—	—	200 W x 4 (A-/B-Ch.)/1,200 W x 1 (Subwoofer-Ch.)	400 W x 4	1,600 W x 1
Max. Wattage (1 Ω)	—	—	—	260 W x 4	2,400 W x 1
Max. Wattage Bridged (4 Ω)	200 W x 2	600 W x 1	400 W x 2*	800 W x 2	—
Wattage RMS (4 Ω <= 1% THD+N)	50 W x 4	125 W x 2	75 W x 4 (A-/B-Ch.)/350 W x 1 (Subwoofer-Ch.)	130 W x 4	500 W x 1
Wattage RMS (2 Ω <= 1% THD+N)	50 W x 4	150 W x 2	100 W x 4 (A-/B-Ch.)/600 W x 1 (Subwoofer-Ch.)	200 W x 4	800 W x 1
Wattage RMS (1 Ω <= 1% THD+N)	—	—	—	130 W x 4	1,200 W x 1
Wattage RMS Bridged (4 Ω)	100 W x 2	300 W x 1	200 W x 2*	400 W x 2	—
Frequency Response	10 Hz to 100 kHz	10 Hz to 30 kHz	10 Hz to 50 kHz (A-/B-Ch.)/10 Hz to 500 Hz (Subwoofer-Ch.)	10 Hz to 50 kHz	10 Hz to 240 Hz
Total Harmonic Distortion (1 kHz, 4 Ω)	<0.003 %	<0.004 %	<0.05 % (A-/B-Ch.)/1 kHz/Subwoofer-Ch.: 100 Hz)	<0.05 %	<0.5 % (100 Hz)
Signal-to-Noise Ratio (IHF-A Weighted)	>108 dB	>105 dB	>94 dB	>95 dB	>100 dB
Dimensions (W x H x D)	371 mm x 65 mm x 282 mm	255 mm x 50 mm x 104 mm	315 mm x 60 mm x 200 mm	315 mm x 60 mm x 200 mm	315 mm x 60 mm x 200 mm

	GM-D8604	GM-D8601	GM-D1004	GM-A6704	GM-A4704	GM-A5702	GM-A3702
Number of Channels	4/3/2	Mono	4/3**/2**	4/3/2	4/3/2	2/1	2/1
Max. Wattage (4 Ω)	200 W x 4	600 W x 1	100 W x 4	170 W x 4	80 W x 4	300 W x 2	170 W x 2
Max. Wattage (2 Ω)	300 W x 4	1,000 W x 1	100 W x 4	250 W x 4	130 W x 4	500 W x 2	250 W x 2
Max. Wattage (1 Ω)	250 W x 4	1,600 W x 1	—	—	—	—	—
Max. Wattage Bridged (4 Ω)	600 W x 2	—	200 W x 2**	500 W x 2	260 W x 2	1,000 W x 1	500 W x 1
Wattage RMS (4 Ω <= 1% THD+N)	100 W x 4	300 W x 1	45 W x 4	60 W x 4	40 W x 4	150 W x 2	60 W x 2
Wattage RMS (2 Ω <= 1% THD+N)	150 W x 4	500 W x 1	45 W x 4	95 W x 4	65 W x 4	240 W x 2	95 W x 2
Wattage RMS (1 Ω <= 1% THD+N)	125 W x 4	800 W x 1	—	—	—	—	—
Wattage RMS Bridged (4 Ω)	300 W x 2	—	90 W x 2**	190 W x 2	130 W x 2	480 W x 1	190 W x 1
Frequency Response	10 Hz to 50 kHz	10 Hz to 240 Hz	10 Hz to 40 kHz	10 Hz to 70 kHz	10 Hz to 70 kHz	10 Hz to 70 kHz	10 Hz to 70 kHz
Total Harmonic Distortion (1 kHz, 4 Ω)	<0.05 %	<0.5 % (100 Hz)	<0.05 %	<0.05 %	<0.05 %	<0.05 %	<0.05 %
Signal-to-Noise Ratio (IHF-A Weighted)	>95 dB	>100 dB	>90 dB	>95 dB	94 dB	>96 dB	>95 dB
Dimensions (W x H x D)	265 mm x 60 mm x 200 mm	265 mm x 60 mm x 200 mm	181 mm x 38 mm x 64 mm	356 mm x 60 mm x 215 mm	326 mm x 60 mm x 215 mm	356 mm x 60 mm x 215 mm	246 mm x 60 mm x 180 mm

* Bridgeable for A-ch. and B-ch. only. ** For the UC model only. See page 58 for details.

SPECIFICATIONS

Subwoofers Specifications

	TS-W3003D4	TS-W311D4	TS-W311S4	TS-W261D4	TS-W261S4	TS-W311	TS-W306R
Size	30 cm	30 cm	30 cm	25 cm	25 cm	30 cm	30 cm
Max. Music Power (Nominal)	2,000 W (600 W)	1,400 W (400 W)	1,400 W (400 W)	1,200 W (350 W)	1,200 W (350 W)	1,000 W (300 W)	1,300 W (350 W)
Frequency Response	20 Hz to 80 Hz	20 Hz to 125 Hz	20 Hz to 125 Hz	20 Hz to 125 Hz	20 Hz to 125 Hz	20 Hz to 125 Hz	20 Hz to 125 Hz
Sensitivity (In Car/1 W)	96 dB	95 dB	95 dB	93 dB	93 dB	95 dB	96 dB
Impedance	4 Ω x 2	4 Ω x 2	4 Ω	4 Ω x 2	4 Ω	4 Ω	4 Ω
Mounting Depth	176 mm	151 mm	151 mm	139 mm	139 mm	148 mm	135 mm
Cut-Out Dimensions	ø283 mm	ø283 mm	ø283 mm	ø235 mm	ø235 mm	ø278 mm	ø281 mm
Recommended Enclosure	24.1 liters to 49.5 liters	24.1 liters to 49.5 liters	24.1 liters to 49.5 liters	18.4 liters to 35.4 liters	18.4 liters to 35.4 liters	24.1 liters to 49.5 liters	24.1 liters to 49.5 liters

	TS-W256R	TS-SW3002S4	TS-SW2502S4	TS-SW2002D2	TS-SWX3002	TS-SWX2502	TS-SWX2002
Size	25 cm	30 cm	25 cm	20 cm	30 cm	25 cm	20 cm
Max. Music Power (Nominal)	1,100 W (300 W)	1,500 W (400 W)	1,200 W (300 W)	600 W (150 W)	1,500 W (400 W)	1,200 W (300 W)	600 W (150 W)
Frequency Response	20 Hz to 160 Hz	20 Hz to 125 Hz	20 Hz to 125 Hz	20 Hz to 200 Hz	20 Hz to 315 Hz	20 Hz to 200 Hz	20 Hz to 250 Hz
Sensitivity (In Car/1 W)	92 dB	93 dB	91 dB	86 dB	92 dB	89 dB	86 dB
Impedance	4 Ω	4 Ω	4 Ω	2 Ω x 2	4 Ω	4 Ω	2 Ω x 2
Mounting Depth	122 mm	86 mm	78 mm	67 mm	—	—	—
Cut-Out Dimensions	ø230 mm	ø298 mm	ø249 mm	ø179 mm	—	—	—
Recommended Enclosure	18.4 liters to 35.4 liters	14.2 liters to 28.3 liters	9.9 liters to 19.8 liters	4.2 liters to 14.2 liters	—	—	—

	TS-WH500A	TS-WX305T	TS-WX305B	TS-WX120A	TS-WX210A	TS-W252PRS
Size	18 cm x 10 cm x 2	30 cm	30 cm	20 cm x 13 cm	20 cm	25 cm
Max. Music Power (Nominal)	150 W*1 (50 W*2)	1,300 W (350 W)	1,300 W (350 W)	150 W*1 (50 W*2)	150 W*1 (50 W*2)	800 W (400 W)
Frequency Response	20 Hz to 200 Hz	20 Hz to 125 Hz	20 Hz to 125 Hz	30 Hz to 160 Hz	37 Hz to 160 Hz	20 Hz to 2,400 Hz
Sensitivity (In Car/1 W)	98 dB	97 dB	95 dB	98 dB	102 dB	84 dB
Impedance	4 Ω	4 Ω	4 Ω	—	—	4 Ω
Mounting Depth	—	—	—	—	—	178 mm
Cut-Out Dimensions	—	—	—	—	—	ø238 mm
Recommended Enclosure	—	—	—	—	—	28.3 liters

*1. Maximum output power *2. Nominal output power

Speakers Specifications

	Component Speakers			TS-D Series						
	TS-C172PRS	TS-C132PRS	TS-S062PRS	TS-D1730C	TS-D1330C	TS-D6902R	TS-D1702R	TS-D1602R	TS-D1302R	TS-D1002R
Size	17 cm 28 mm*1	13 cm 28 mm*1	66 mm	17 cm 23 mm*1	13 cm 23 mm*1	6" x 9"	17 cm	16 cm	13 cm	10 cm
Max. Music Power (Nominal)	200 W (50 W)	150 W (30 W)	200 W (50 W)*2 60 W (15 W)*3	260 W (60 W)	180 W (35 W)	360 W (80 W)	280 W (60 W)	260 W (60 W)	180 W (35 W)	110 W (25 W)
Frequency Response	25 Hz to 35 kHz	30 Hz to 35 kHz	48 Hz to 40 kHz	27 Hz to 44 kHz	37 Hz to 44 kHz	28 Hz to 30 kHz	30 Hz to 32 kHz	35 Hz to 32 kHz	35 Hz to 40 kHz	40 Hz to 40 kHz
Sensitivity (1 W/1 m)	89 dB	86 dB	84 dB	88 dB	88 dB	90 dB	88 dB	88 dB	88 dB	86 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Crossover Frequency	2,300 Hz	2,200 Hz	—	4,500 Hz (with -12 dB)	4,500 Hz (with -12 dB)	2,800 Hz	3,200 Hz	4,000 Hz	6,000 Hz	6,000 Hz
Mounting Depth	67 mm 13.4 mm*1	57.3 mm 13.4 mm*1	32 mm 42.2 mm*1	65 mm 13 mm*1	58 mm 13 mm*1	89 mm	64.5 mm	59 mm	57.3 mm	46.5 mm
Mounting Depth with Mount Adapter	16 cm: 55 mm	—	—	45 mm*5	—	—	—	—	—	—
Cut-Out Dimensions	ø142 mm	ø123 mm	ø64 mm ø69 mm*4	ø144 mm	ø121 mm	151 mm x 220 mm	ø139 mm	ø128 mm	ø121 mm	ø106 mm

*1. Tweeter specification *2. With back chamber, 800 Hz, -12 dB/oct. HPF *3. Without back chamber, 400 Hz, -12 dB/oct. HPF *4. With back chamber *5. With 6" x 9" tweeter bracket

	TS-A Series													
	TS-A1606C	TS-A1306C	TS-A6996S	TS-A6986S	TS-A6976S	TS-A6966S	TS-A1686S	TS-A1676S	TS-A1376S	TS-A6886R	TS-A4676R	TS-A4633I	TS-A2013I	TS-A2503I
Size	16 cm 20 mm*1	13 cm 20 mm*1	6" x 9"	6" x 9"	6" x 9"	6" x 9"	16 cm	16 cm	13 cm	6" x 8"	4" x 6"	4" x 6"	20 cm	25 cm
Max. Music Power (Nominal)	350 W (60 W)	400 W (50 W)	650 W (100 W)	600 W (100 W)	550 W (90 W)	420 W (60 W)	350 W (60 W)	320 W (50 W)	300 W (50 W)	350 W (60 W)	200 W (30 W)	200 W (30 W)	500 W (80 W)	420 W (80 W)
Frequency Response	32 Hz to 43 kHz	42 Hz to 42 kHz	28 Hz to 38 kHz	27 Hz to 37 kHz	27 Hz to 24 kHz	28 Hz to 36 kHz	32 Hz to 38 kHz	32 Hz to 40 kHz	40 Hz to 29 kHz	28 Hz to 39 kHz	35 Hz to 42 kHz	35 Hz to 42 kHz	25 Hz to 28 kHz	20 Hz to 31 kHz
Sensitivity (1 W/1 m)	91 dB	90 dB	93 dB	92 dB	92 dB	92 dB	91 dB	90 dB	89 dB	91 dB	88 dB	88 dB	91 dB	92 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	54 mm 19 mm*1	52 mm 19 mm*1	85 mm	84 mm	84 mm	71 mm	54 mm	44 mm	53 mm	61 mm	43 mm	46 mm	89 mm	115 mm
Cut-Out Dimensions	ø144 mm	ø121 mm	153 mm x 222 mm	153 mm x 222 mm	153 mm x 222 mm	153 mm x 222 mm	ø144 mm	ø128 mm	ø121 mm	133 mm x 191 mm	95 mm x 153 mm	95 mm x 153 mm	ø186 mm	ø236 mm

*1. Tweeter specification

	TS-R Series				TS-G Series								
	TS-R6951S	TS-R1750S	TS-R1650S	TS-R1350S	TS-G1605C	TS-G1645R	TS-G1345R	TS-G1045R	TS-G1615R	TS-G1315R	TS-G1015R	TS-G6932I	TS-G4645R
Size	6" x 9"	17 cm	16 cm	13 cm	16 cm 30 mm*1	16 cm	13 cm	10 cm	16 cm	13 cm	10 cm	6" x 9"	4" x 6"
Max. Music Power (Nominal)	400 W (50 W)	250 W (40 W)	250 W (40 W)	250 W (35 W)	280 W (45 W)	250 W (40 W)	250 W (35 W)	210 W (30 W)	230 W (40 W)	230 W (35 W)	190 W (30 W)	300 W (40 W)	200 W (30 W)
Frequency Response	31 Hz to 35 kHz	36 Hz to 31 kHz	35 Hz to 31 kHz	44 Hz to 31 kHz	30 Hz to 28 kHz	26 Hz to 27 kHz	34 Hz to 25 kHz	38 Hz to 29 kHz	30 Hz to 25 kHz	30 Hz to 24 kHz	38 Hz to 26 kHz	27 Hz to 40 kHz	37 Hz to 26 kHz
Sensitivity (1 W/1 m)	92 dB	90 dB	90 dB	89 dB	89 dB	89 dB	86 dB	84 dB	90 dB	88 dB	86 dB	90 dB	86 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	68 mm	47 mm	40 mm	47 mm	39 mm	38 mm	44 mm	43 mm	39 mm	44 mm	43 mm	67 mm	42 mm
Cut-Out Dimensions	153 mm x 222 mm	ø137 mm	ø128 mm	ø111 mm	ø128 mm	ø128 mm	ø121 mm	ø106 mm	ø128 mm	ø121 mm	ø106 mm	153 mm x 222 mm	95 mm x 153 mm

*1. Tweeter specification

	PRO Series				Champion Series				DXT-X1969UB & DXT-X196UB Speakers		MXT-X396BT Speaker
	TS-B350PRO	TS-B400PRO	TS-M650PRO	TS-M800PRO	TS-6900PRO	TS-6975 V3	TS-6965 V3	TS-1675 V2	DXT-X1969UB	DXT-X196UB	MXT-X396BT
Size	8.7 cm	10 cm	17 cm	20 cm	6" x 9"	6" x 9"	6" x 9"	16 cm	6" x 9"	16 cm	16 cm
Max. Music Power (Nominal)	250 W (100 W)	500 W (200 W)	500 W (110 W)	700 W (180 W)	600 W (100 W)	550 W (80 W)	450 W (80 W)	300 W (50 W)	230 W (30 W)	200 W (25 W)	200 W (25 W)
Frequency Response	3,500 Hz to 27 kHz	2,800 Hz to 27 kHz	50 Hz to 18 kHz	40 Hz to 15 kHz	20 Hz to 40 kHz	28 Hz to 27 kHz	23 Hz to 26 kHz	30 Hz to 25 kHz	28 Hz to 20 kHz	31 Hz to 16 kHz	31 Hz to 16 kHz
Sensitivity (1 W/1 m)	100 dB	106 dB	94 dB	96 dB	92 dB	92 dB	91 dB	92 dB	88 dB	88 dB	88 dB
Impedance	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	44 mm	68 mm	81 mm	93 mm	89 mm	92 mm	84 mm	58 mm	66.3 mm	41 mm	41 mm
Cut-Out Dimensions	ø75 mm	ø95 mm	ø148 mm	ø184 mm	153 mm x 222 mm	151 mm x 220 mm	151 mm x 220 mm	ø128 mm	153 mm x 222 mm	ø128 mm	ø128 mm

	Other Speakers									
	TS-S20C	TS-S20	TS-F1634R	TS-F1034R	TS-S250	TS-T110	TS-MR2040	TS-MR1640	TS-MR1600	TS-MR1600
Size	20 mm	20 mm	16 cm	10 cm	40 mm	22 mm	20 cm	16 cm	16 cm	16 cm
Max. Music Power (Nominal)	270 W (50 W)	200 W (50 W)	200 W (25 W)	150 W (20 W)	250 W (50 W)	120 W (40 W)	200 W (40 W)	160 W (30 W)	100 W (25 W)	100 W (25 W)
Frequency Response	2,200 Hz to 32 kHz	3,000 Hz*1/ 1,200 Hz*2 to 26 kHz	31 Hz to 16 kHz	45 Hz to 18 kHz	6,000 Hz to 40 kHz	2,500 Hz to 30 kHz	25 Hz to 30 kHz	30 Hz to 30 kHz	30 Hz to 20 kHz	30 Hz to 20 kHz
Sensitivity (1 W/1 m)	91 dB	92 dB	88 dB	86 dB	97 dB	90 dB	92 dB	91 dB	90 dB	90 dB
Impedance	6 Ω	8 Ω	4 Ω	4 Ω	8 Ω	4 Ω	4 Ω	4 Ω	4 Ω	4 Ω
Mounting Depth	—	—	41 mm	43 mm	—	—	75 mm	56 mm	56 mm	56 mm
Cut-Out Dimensions	—	—	ø128 mm	ø102 mm	—	—	ø183 mm	ø127 mm	ø127 mm	ø127 mm

*1. With network *2. Without network

Subwoofers Thiele/Small Parameters

	TS-W3003D4	TS-W311D4	TS-W311S4	TS-W261D4	TS-W261S4	TS-W311
Nom.Dia	30 cm	30 cm	30 cm	25 cm	25 cm	30 cm
Qts	0.59	1.05	0.79	1.04	0.85	1.17
Qms	11.5	13.79	14.96	15.49	14.59	9.64
Qes	0.62	1.02	0.84	1.12	0.9	1.311
Resonance Frequency	35.0 Hz	43.0 Hz	42.0 Hz	46.0 Hz	45.0 Hz	45.0 Hz
Vas [Liters]	34.6	32.7	37.5	17.7	18.6	34.1
Vas [ft ³]	1.22	1.15	1.32	0.63	0.66	1.21
Vd [Liters]	0.72	0.56	0.42	0.35	0.33	0.56
Vd [ft ³]	2.54 E-02	1.98E-02	1.47E-02	1.25E-02	1.15E-02	1.97E-02
Sd [m ²]	5.20 E-02	5.20E-02	5.20E-02	3.50E-02	3.50E-02	5.06E-02
Sd [ft ²]	0.56	0.56	0.56	0.38	0.38	0.54
Revc	Dual 2.9 Ω	Dual 2.9 Ω	3.0 Ω	Dual 3.3 Ω	3.2 Ω	3.1 Ω
Levc (at 2,000 Hz)	5.99 mH (8 Ω) 1.53 mH (2 Ω)	4.85 mH (8 Ω) 1.23 mH (2 Ω)	2.87 mH	4.91 mH (8 Ω) 1.26 mH (2 Ω)	2.92 mH	1.29 mH
Xmax [mm]	13.8	10.8	8.0	10.1	9.3	11.0
Xmax [In]	0.54	0.4	0.3	0.3	0.4	0.4
Zmax	112.8 (8 Ω) 24.51 (2 Ω)	74.19 (8 Ω) 18.6 (2 Ω)	47.27	85.48 (8 Ω) 18.61 (2 Ω)	47.17	21.86
Bl	22.4 Tm (8 Ω) 11.2 Tm (2 Ω)	16.2 Tm (8 Ω) 8.2 Tm (2 Ω)	13.0 Tm	15.3 Tm (8 Ω) 7.7 Tm (2 Ω)	11.5 Tm	9.6 Tm
Rms	4.44 Ns/m	3.39 Ns/m	2.88 Ns/m	2.33 Ns/m	2.42 Ns/m	3.89 Ns/m
Mms	257 g	166 g	164 g	123 g	124 g	133 g
Cms	8.3 x 10-5 m/N	7.6 x 10-5 m/N	8.7 x 10-5 m/N	9.5 x 10-5 m/N	9.9 x 10-5 m/N	9.4 x 10-5 m/N
Mg. Wt.	2,800 g	2,100 g	2,100 g	1,700 g	1,700 g	1,240 g
Flux Density	8,712 Gauss	7,381 Gauss	6,926 Gauss	7,177 Gauss	6,813 Gauss	8,425 Gauss
Hag [mm]	10	10	10	10	10	10
Hag [In]	0.39	0.39	0.39	0.39	0.39	0.39
Hvc [mm]	37.6	31.6	26.0	30.2	28.6	32.0
Hvc [In]	1.48	1.24	1.02	1.19	1.13	1.26
VC. Diameter	55 mm	48 mm	48 mm	40 mm	40 mm	48 mm
Eff	0.23 %	0.23 %	0.29 %	0.16 %	0.17 %	0.23 %
S.P.L.	95 dB	95 dB	95 dB	93 dB	93 dB	95 dB
Nominal Power	600 W	400 W	400 W	350 W	350 W	300 W
M.M.P.	2,000 W	1,400 W	1,400 W	1,200 W	1,200 W	1,000 W
Sp. Displacement [Liter]	2.71	1.67	1.67	1.22	1.22	1.75
Sp. Displacement [ft ³]	0.095	0.059	0.059	0.043	0.043	0.061
Recom. Enclosure [Liter]	35.38	35.38	35.38	22.64	22.64	35.38
Recom. Enclosure [ft ³]	1.25	1.25	1.25	0.8	0.8	1.25
F ₀ (in Cabinet)	49.2	55.8	55.7	61.6	60.2	60.2
Q ₀ (in Cabinet)	0.83	1.25	1.09	1.28	1.13	1.64

	TS-W306R	TS-W256R	TS-SW3002S4	TS-SW2502S4	TS-SW2002D2	TS-W252PRS
Nom.Dia	30 cm	25 cm	30 cm	25 cm	20 cm	25 cm
Qts	0.81	0.66	0.61	0.97	0.98	0.289
Qms	15.6	17.1	13.95	12.04	5.23	8.125
Qes	0.86	0.68	0.64	1.06	1.20	0.300
Resonance Frequency	24.6 Hz	32.7 Hz	35.0 Hz	42.0 Hz	65.0 Hz	29.4 Hz
Vas [Liters]	102.1	32.2	35.4	18.5	3.8	30.66
Vas [ft ³]	3.61	1.14	1.25	0.65	0.13	1.083
Vd [Liters]	0.60	0.22	0.51	0.26	0.06	0.313
Vd [ft ³]	2.12E-02	7.64E-03	1.80E-02	9.16E-03	2.00E-03	1.33E-01
Sd [m ²]	5.15E-02	3.46E-02	5.78E-02	3.99E-02	2.02E-02	3.43E-02
Sd [ft ²]	0.55	0.37	0.62	0.43	0.22	0.369
Revc	3.6 Ω	3.6 Ω	3.0 Ω	3.0 Ω	Dual 1.5 Ω	2.5 Ω
Levc (at 2,000 Hz)	1.81 mH	2.16 mH	2.27 mH	1.91 mH	1.08 mH (4 Ω) 0.27 mH (1 Ω)	0.506 mH
Xmax [mm]	11.7	6.3	8.8	6.5	2.8	9.1
Xmax [In]	0.46	0.25	0.35	0.26	0.11	0.36
Zmax	46.8 Ω	67.8 Ω	70.37 Ω	40.99 Ω	17.12 (4 Ω) 4.53 (1 Ω)	74.61 Ω
Bl	10.3 Tm	12.1 Tm	17 Tm	12 Tm	10 Tm (4 Ω) 5 Tm (1 Ω)	16.150 Tm
Rms	1.53 Ns/m	1.50 Ns/m	4.29 Ns/m	3.79 Ns/m	7.08 Ns/m	3.617 Ns/m
Mms	153.9 g	124.7 g	243 g	171 g	90 g	158.99 g
Cms	0.27 mm/N	0.19 mm/N	8.50E-05 m/N	8.20E-05 m/N	6.60E-05 m/N	1.840E-04 m/N
Mg. Wt.	840 g	840 g	2,030 g	1,030 g	840 g	3,040 g
Flux Density	619 mT	552 mT	4,500 Gauss	5,600 Gauss	6,900 Gauss	5,100 Gauss
Hag [mm]	8	8	10	10	8	35
Hag [In]	0.31	0.31	0.39	0.39	0.31	1.378
Hvc [mm]	31.3	20.5	28	23	13.6	17
Hvc [In]	1.23	0.81	1.10	0.91	0.54	0.660
VC. Diameter	40 mm	35 mm	55 mm	48 mm	40 mm	76 mm
Eff	0.17 %	0.16 %	0.23 %	0.13 %	0.08 %	0.28 %
S.P.L.	96 dB	92 dB	93 dB	91 dB	86 dB	84.0 dB
Nominal Power	350 W	300 W	400 W	300 W	150 W	400 W
M.M.P.	1,300 W	1,100 W	1,500 W	1,200 W	600 W	800 W
Sp. Displacement [Liter]	1.09	0.83	1.11	0.68	0.44	2.54
Sp. Displacement [ft ³]	0.038	0.029	0.039	0.024	0.016	0.090
Recom. Enclosure [Liter]	35.4	22.6	22.6	17.0	14.2	28.3
Recom. Enclosure [ft ³]	1.25	0.8	0.800	0.600	0.500	1.0
F ₀ (in Cabinet)	48.5 Hz	50.9 Hz	58.0	61.0	73.0	42.4
Q ₀ (in Cabinet)	1.60	1.02	0.97	1.40	1.10	0.417

SPECIFICATIONS

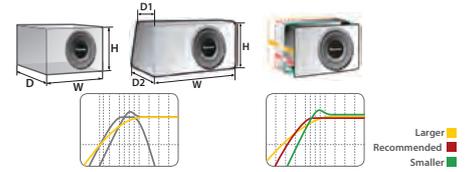
Subwoofer Enclosures

SEALED ENCLOSURES

The simplest subwoofer enclosure to design and build is a sealed enclosure. A sealed enclosure is essentially a completely sealed box that isolates the front sound waves of the subwoofer from the rear waves.

Advantages of a sealed enclosure design include: smaller enclosure size, simple design and fabrication, flat frequency response, good in-vehicle transient response, and higher power handling.

Disadvantages of a sealed enclosure design include: less efficient than a comparable vented enclosure and limited lower frequency extension.



Recommended Enclosure Volumes and Dimensions*	TS-W3003D4	TS-W311D4	TS-W311S4	TS-W261D4	TS-W261S4	TS-W311
Enclosure Volume (l)						
Center	35.4	35.4	35.4	22.6	22.6	35.4
Box Dimensions: W x H x D (mm)	396 x 314 x 396	396 x 396 x 314	396 x 396 x 314	351 x 351 x 269	351 x 351 x 269	396 x 396 x 314
Min.	24.1	24.1	24.1	18.4	18.4	24.1
Max.	49.5	49.5	49.5	35.4	35.4	49.5

Recommended Enclosure Volumes and Dimensions*	TS-W306R	TS-W256R	TS-SW3002S4	TS-SW2502S4	TS-SW2002D2
Enclosure Volume (l)					
Center	35.4	22.6	22.6	17.0	14.2
Box Dimensions: W x H x D (mm)	396 x 396 x 314	351 x 351 x 269	—	—	—
Box Dimensions: W x H x D1 x D2 (mm)	—	—	769 x 357 x 104 x 168	714 x 320 x 99 x 156	626 x 313 x 108 x 143
Min.	24.1	18.4	14.2	9.9	4.2
Max.	49.5	35.4	28.3	19.8	14.2

* Measured externally. 19 mm MDF particle board recommended.

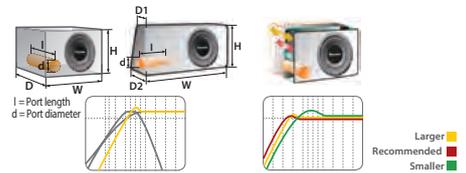
VENTED ENCLOSURES (BASS REFLEX)

Similar in design to a sealed enclosure, vented enclosures utilize a sealed chamber that has been 'vented' or 'ported' with an opening of a determined diameter and length. The vent (or port) opening is tuned to a certain frequency by changing the length or diameter of the opening. The addition of the vent allows the enclosure to be more efficient by allowing the rear sound waves of the subwoofer motion to reinforce the front waves.

In a vented enclosure, there's a direct relationship between the subwoofer, the enclosure airspace, and the tuned frequency of the vent. When properly designed, a vented enclosure benefits from having a 3 dB higher efficiency at the tuned frequency of the vent compared to the same subwoofer mounted in a sealed enclosure.

Advantages of a vented enclosure design include: Higher efficiency and increased low-frequency extension (above the tuned frequency of the vent).

Disadvantages of a vented enclosure design include: Higher distortion below the tuned frequency of the vent, more complex design and fabrication, larger in size than a sealed enclosure, and less-transient in-vehicle accuracy.



Recommended Enclosure Volumes, Dimensions* and Port Size	TS-W3003D4	TS-W311D4	TS-W311S4	TS-W261D4	TS-W261S4	TS-W311
Enclosure Volume (l)						
Center	42.5	42.5	42.5	31.1	31.1	42.5
Box Dimensions: W x H x D (mm)	461 x 373 x 338	461 x 373 x 338	461 x 373 x 338	396 x 353 x 314	396 x 353 x 314	461 x 373 x 338
Port Size: d x l (mm)	ø76 x 152	ø76 x 165	ø76 x 152	ø76 x 178	ø76 x 127	ø76 x 127
Min.	35.4	35.4	35.4	25.5	25.5	35.4
Max.	56.6	56.6	56.6	42.5	42.5	56.6

Recommended Enclosure Volumes, Dimensions* and Port Size	TS-W306R	TS-W256R	TS-SW3002S4	TS-SW2502S4	TS-SW2002D2
Enclosure Volume (l)					
Center	42.5	31.1	22.6	17.0	14.2
Box Dimensions: W x H x D (mm)	461 x 373 x 338	396 x 353 x 314	—	—	—
Box Dimensions: W x H x D1 x D2 (mm)	—	—	769 x 357 x 104 x 168	714 x 320 x 99 x 156	626 x 313 x 108 x 143
Port Size: d x l (mm)	ø76 x 267	ø76 x 165	ø76 x 279	ø76 x 330	ø76 x 254
Min.	35.4	25.5	18.4	14.2	7.1
Max.	56.6	42.5	28.3	19.8	14.2

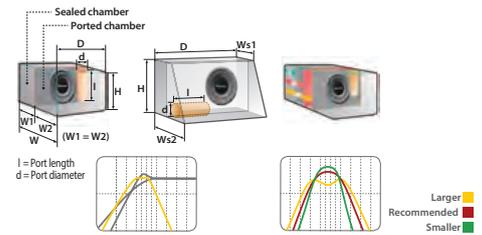
* Measured externally. 19 mm MDF particle board recommended.

BANDPASS ENCLOSURES

The most complex of the common enclosures is a Band-pass enclosure. While there are several types (also called orders) of Bandpass designs, the most commonly used design is referred to as a single-reflex (or a 4th order) Bandpass. A single-reflex Bandpass enclosure consists of a subwoofer loaded into a small sealed enclosure fires into a vented chamber. As the sound waves from the subwoofer travel through the vented chamber upper midbass frequencies are filtered out, allowing only the low frequency bands to pass through-hence the name: Bandpass.

Advantages of a Bandpass enclosure design include: High efficiency over a narrow of low frequencies and some filtering characteristics.

Disadvantages of a Bandpass enclosure design include: decreased frequency response, sluggish frequency response, extreme complexity in design and assembly, larger enclosure size, and decreased power handling.



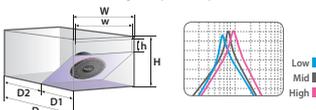
Recommended Enclosure Volumes, Dimensions* and Port Size	TS-W306R	TS-W256R	TS-SW3002S4	TS-SW2502S4	TS-SW2002D2
Enclosure Volume (l)					
Center (Sealed Chamber/Ported Chamber)	25.5/25.5	17.0/17.0	17.0/17.0	12.7/12.7	11.3/11.3
Box Dimensions: W x H x D (mm)	481 x 385 x 385	449 x 332 x 332	—	—	—
Box Dimensions: Ws1 x Ws2 x H x D (mm)	—	—	174 x 314 x 388 x 559	193 x 283 x 338 x 509	172 x 263 x 313 x 552
Port Size: d x l (mm)	ø76 x 64	ø76 x 102	ø76 x 127	ø76 x 114	ø76 x 165
Min. (Sealed Chamber/Ported Chamber)	19.8/19.8	12.7/12.7	14.2/14.2	9.9/9.9	7.1/7.1
Max. (Sealed Chamber/Ported Chamber)	31.1/31.1	22.6/22.6	22.6/22.6	17.0/17.0	11.3/11.3

TURBO (High Output Bandpass)

Recommended Enclosure Volumes, Dimensions* and Port Size	TS-W3003D4	TS-W311D4	TS-W311S4	TS-W261D4	TS-W261S4	TS-W311
Enclosure Volume (l)						
Low (Sealed Chamber/Ported Chamber)	16/98	16/98	16/98	12/85	12/85	16/98
Mid (Sealed Chamber/Ported Chamber)	16/88	16/88	16/88	12/75	12/75	16/88
High (Sealed Chamber/Ported Chamber)	16/78	16/78	16/78	12/65	12/65	16/78
Box Dimensions: W x H x D (mm)	438 x 488 x 638	438 x 488 x 638	438 x 488 x 638	411 x 478 x 586	411 x 478 x 586	438 x 488 x 638
Port Size: w x h (mm)	400 x 150	400 x 150	400 x 150	373 x 150	373 x 150	400 x 150

* Measured externally. 19 mm MDF particle board recommended.

Enclosure for TURBO (High Output Bandpass)



Symbols for Special Features

Display

	Touch Panel Screen
7.0W	7.0-inch Wide Screen
6.2W	6.2-inch Wide Screen
3.5W	3.5-inch Wide Screen
3.0W	3.0-inch Wide Screen
VGA	VGA Display
OEL	OEL Display
LED	LED Backlight
FULL DOT LCD	Full Dot LCD Display
VA LCD	VA LCD Display
MULTI-LANGUAGE DISPLAY	Multi-Language Display

Media & Format

	DVD Video Compatible
	DVD-R/RW Compatible
	CD-R/RW Compatible
flac	FLAC (Free Lossless Audio Codec) Audio
MP3	MP3 (MPEG Audio Layer-3)
WMA	WMA (Windows Media™ Audio)
AAC	iTunes AAC (Advanced Audio Coding)
DIVX	DivX® Digital Media
DOLBY DIGITAL	Dolby® Digital Decoder

Connectivity

	Download on the App Store
	GET IT ON Google Play
	Works with Apple CarPlay
	Made for iPod and iPhone Products

	Pioneer ARC
	Smartphone powered by Android Compatible*
	AppRadioLIVE
	AppRadio Mode
	Media App Control
	App Mode
	Built-in MirrorLink™
	Built-in Bluetooth®
	Bluetooth Adapter Ready
	Siri Eyes Free Compatible
	SD/SDHC Memory Card Compatible
	AUX-In Connectivity (mini-jack)
	USB Direct Connection
	Dual USB Ports
	HDMI Input
	USB Quick Charge for Android (CDP)
	1A High Current USB
	Back Up Camera Ready
	Pioneer TV Tuner Ready

Audio

MIXTRAX	MIXTRAX
MIXTRAX EZ	MIXTRAX EZ
	Spotify®
Hi-VOLT	Hi-Volt Preout
	RCA Preout
	Subwoofer Control
24bit	24-Bit DA Converter
	Auto EQ
	Dual Zone Audio/Video
	Supertuner® III D
RDS	Radio Data System
	Shortwave Tuner
MOSFET 50Wx4	MOSFET 50 W x 4
DSP	Digital Signal Processor
	Specialized Audio Parts

Amplifier

	Variable High Pass Filter
	Variable Low Pass Filter
	High Pass Filter
	Low Pass Filter
	RCA Input/Output
	RCA Input
	Speaker Level Inputs
Bass Boost	Bass Boost
Bass Boost Remote	Bass Boost Remote
Class FD	Class FD
1ohm	1 Ohm Load Impedance

Notes:

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Not every USB Device is compatible with a Pioneer receiver containing a USB port. Optional USB extension cable is available for use with front USB ports.

* Not all Android devices may be compatible with a Pioneer receiver via the USB port or Bluetooth. Pioneer receivers are compatible with Android UBS MSC (Mass Storage Class) devices only and are not compatible with MTP (Media Transfer Protocol) devices. Certain Bluetooth features may not be supported by all compatible Bluetooth-enabled Android devices, and/or the functionality of such features may be limited in certain devices or by certain wireless carriers.

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General

	Music Browser
	Detachable Face Security™ (DFS)
	Auto Flap Face
	Flap Face
	Color Customization
	Separated Color Customization
	Flashing Color
	Lever Key
	Rotary Commander
	Wired Remote Input
	Anti-Dust Design

Subwoofer & Speaker

	Open & Smooth Sound Concept
	ib-FLAT Subwoofer
	Twaron® Aramid Fiber Cone
	Multilayer Mica Matrix Cone
	IMPP™ (Injection-Molded Polypropylene) Composite Cone
	Pioneer 3D Hologram Sticker Attached to Product Packaging Carton
	HVT (Horizontal Vertical Transforming) Technology
	TS-A Series: High Dynamic Range
	TS-R Series: High Sensitivity
	TS-G Series: Wide Application