

# Pioneer

CD RDS RECEIVER

## DEH-S1200UB

Operation Manual



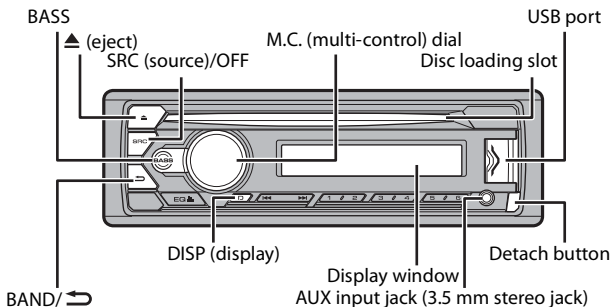
**Important (Serial number)**

The serial number is located on the bottom of this unit. For your own security and convenience, be sure to record this number on the enclosed warranty card.

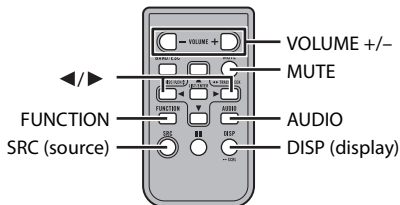
# Getting Started

## Basic operation




### DEH-S1200UB



### Remote Control







## Frequently used operations

Purpose	Operation	
	Head Unit	Remote Control
Turn on the power*	Press <b>SRC/OFF</b> to turn on the power. Press and hold <b>SRC/OFF</b> to turn off the power.	Press <b>SRC</b> to turn on the power. Press and hold <b>SRC</b> to turn off the power.
Adjust the volume	Turn the <b>M.C.</b> dial.	Press <b>VOLUME +</b> or <b>-</b> . Press <b>MUTE</b> to mute the unit. Press <b>MUTE</b> again or press <b>VOLUME +</b> or <b>-</b> to unmute.
Select a source	Press <b>SRC/OFF</b> repeatedly.	Press <b>SRC</b> repeatedly.
Change the display information	Press <b>DISP</b> repeatedly.	Press <b>DISP</b> repeatedly.
Return to the previous display/list	Press <b>BAND/</b>  .	Press  /  to select the next/previous folder.
Boost the bass level	Press <b>BASS</b> . • You can select the bass level in [BASS BOOST] (page 13).	-

\* When this unit's blue/white lead is connected to the vehicle's auto-antenna relay control terminal, the vehicle's antenna extends when this unit's source is turned on. To retract the antenna, turn the source off.

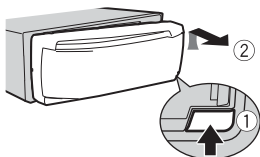
## Display indication

Indication	Description
	Appears when a lower tier of the menu or folder exists.
	Appears when the <b>BASS</b> button is pressed and held.
<b>LOC</b>	Appears when the local seek tuning function is set (page 12).
<b>S.Rtrv</b>	Appears when the sound retriever function is set (page 12).
	Appears when random play is set.
	Appears when repeat play is set.

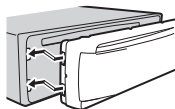
## Detaching the front panel

Detach the front panel to prevent theft. Remove any cables and devices attached to the front panel and turn off the unit before detaching it.

### Detach



### Attach

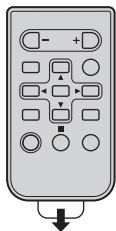


### Important

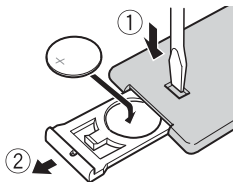
- Avoid subjecting the front panel to excessive shock.
- Keep the front panel out of direct sunlight and high temperatures.
- Always store the detached front panel in a protective case or bag.

## Preparing the remote control

Remove the insulation sheet before use.



### How to replace the battery



Insert the CR2025 (3 V) battery with the plus (+) and minus (-) poles orientated properly.

### WARNING

- Do not ingest the battery, Chemical Burn Hazard. (The remote control supplied with) This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death. Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

- Batteries (battery pack or batteries installed) must not be exposed to excessive heat such as sunshine, fire or the like.

### CAUTION

- There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.
- Do not handle or store the battery with metallic tools or objects.
- If the battery leaks, remove the battery and wipe the remote control completely clean. Then install a new battery.
- When disposing of used batteries, please comply with governmental regulations or environmental public institution's rules that apply in your country/area.
- "Perchlorate Material - special handling may apply."

### Important

- Do not store the remote control in high temperatures or direct sunlight.
- Do not let the remote control fall onto the floor, where it may become jammed under the brake or accelerator pedal.

## Setting the clock (CLOCK SET)

When you turn the ignition switch to ON after installation, [SET UP :YES] appears in the display.

### 1 Press the M.C. dial.

The setup menu disappears after 30 seconds of no operation. If you prefer not to set at this time, turn the **M.C.** dial to select [NO], then press to confirm.

### 2 Turn the M.C. dial to adjust the hour, then press to confirm.

The indicator moves to the minute setting automatically.

### 3 Turn the M.C. dial to adjust the minute, then press to confirm.

[QUIT] appears.

### 4 Turn the M.C. dial to select [YES], then press to confirm.

### NOTES

- You can cancel the menu setting by pressing **SRC/OFF**.
- This setting can be made at any time. See page 14 for more details.

## Canceling the demonstration display (DEMO OFF)

### 1 Press the M.C. dial to display the main menu.

### 2 Turn the M.C. dial to select [SYSTEM], then press to confirm.

- 3 Turn the M.C. dial to select [DEMO OFF], then press to confirm.
- 4 Turn the M.C. dial to select [YES], then press to confirm.

## INITIAL settings

- 1 Press and hold SRC/OFF until the unit turns off.
- 2 Press the M.C. dial to display the main menu.
- 3 Turn the M.C. dial to select [INITIAL], then press to confirm.
- 4 Turn the M.C. dial to select an option, then press to confirm.

Menu Item	Description
<b>SP-P/O MODE</b>	Select when there is a full-range speaker connected to the rear speaker output leads and there is a subwoofer connected to the RCA output.
[REAR/SUB.W]	
[SUB.W/SUB.W]	Select when there is a passive subwoofer connected directly to the rear speaker output leads and there is a subwoofer connected to the RCA output.
[REAR/REAR]	Select when there are full-range speakers connected to the rear speaker output leads and RCA output. If there is a full-range speaker connected to the rear speaker output leads, and the RCA output is not used, you may select either [REAR/SUB.W] or [REAR/REAR].
<b>S/W UPDATE</b>	Select to confirm the latest system information on the unit.
[SYSTEM INFO]	
[SYSTEM UPDATE]	Select to update the unit to the latest software and initialize the unit settings. For details on the latest software and updating, visit our website.
<b>SYSTEM RESET</b>	Select [YES] to initialize the unit settings. The unit will be restarted automatically.
[YES], [NO]	(Some of the settings may be retained even after resetting the unit.)

## Radio

The tuner frequencies on this unit are allocated for use in North America. Use in other areas may result in poor reception.

## Receiving preset stations

- 1 Press **SRC/OFF** to select [RADIO].
- 2 Press **BAND/↶** to select the band from [FM1], [FM2], [FM3] or [AM].
- 3 Press a number button (1/∧ to 6/↷).

### TIP

The **◀▶** buttons can be also used to select a preset station when [SEEK] is set to [PCH] in the FUNCTION settings (page 12).

## Best stations memory (BSM)

The six strongest stations are stored on the number buttons (1/∧ to 6/↷).

- 1 After selecting the band, press the **M.C.** dial to display the main menu.
- 2 Turn the **M.C.** dial to select [FUNCTION], then press to confirm.
- 3 Turn the **M.C.** dial to select [BSM], then press to confirm.

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### To seek a station manually

- 1 After selecting the band, press **◀▶** to select a station.  
Press and hold **◀▶** then release to seek an available station. Scanning stops when the unit receives a station. To cancel seek tuning, press **◀▶**.

### NOTE

[SEEK] needs to be set to [MAN] in the FUNCTION settings (page 12).

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### To store stations manually

- 1 While receiving the station you want to store, press and hold one of the number buttons (1/∧ to 6/↷) until it stops flashing.

## CD/USB/AUX

### Playing back

Disconnect headphones from the device before connecting it to the unit.

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## CD

- 1 Insert a disc into the disc loading slot with the label side up.

To eject a disc, stop playback first then press ▲.

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## USB devices (including Android™)

- 1 Open the USB port cover.
- 2 Plug in the USB device using an appropriate cable.

### NOTE

To automatically switch to [USB] source when a USB device is connected to the unit, set [USB AUTO] to [ON] in the SYSTEM settings (page 14).

### CAUTION

Use a USB cable (sold separately) to connect the USB device as any device connected directly to the unit will protrude out from the unit, which could be dangerous.

Before removing the device, stop playback.

### AOA connections

For details on AOA connection, see page 11.

### MTP connection

A device installed with Android OS 4.0 or most of later versions can be connected to the unit via MTP, using the cable supplied with the device. However, depending on the connected device, OS version or the numbers of the files in the device, audio files/songs may not be able to be played back via MTP. Note that MTP connection is not compatible with WAV and FLAC file formats.

### NOTE

If you use an MTP connection, [ANDROID WIRED] needs to be set to [MEMORY] in the SYSTEM settings (page 14).

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## AUX

- 1 Insert the stereo mini plug into the AUX input jack.
- 2 Press SRC/OFF to select [AUX] as the source.

### NOTE

If [AUX] is set to [OFF] in the SYSTEM settings, [AUX] cannot be selected as a source (page 14).

## Operations

You can make various adjustments in the FUNCTION settings (page 12).

Note that the following operations do not work for an AUX device. To operate an AUX device, use the device itself.



Purpose	Operation
Select a folder*1	Press <b>1/▲</b> or <b>2/▼</b> .
Select a track/song	Press <b>⏮</b> or <b>⏭</b> .
Fast forward or reverse*2	Press and hold <b>⏮</b> or <b>⏭</b> .
Search for a file from a list	<ol style="list-style-type: none"> <li>1 Press and hold <b>BASS</b> to display the list.</li> <li>2 Turn the <b>M.C.</b> dial to select the desired file (folder) name or category, then press to confirm.</li> <li>3 Turn the <b>M.C.</b> dial to select the desired file, then press to confirm. Playback starts.</li> </ol>
View a list of the files in the selected folder/category*1	Press the <b>M.C.</b> dial when a folder/category is selected.
Play a song in the selected folder/category*1	Press and hold the <b>M.C.</b> dial when a folder/category is selected.
Repeat play	Press <b>6/↺</b> .
Random play	Press <b>5/↻</b> .
Pause/resume playback	Press <b>4/PAUSE</b> .
Return to root folder (CD/USB only)*1	Press and hold <b>1/▲</b> .
Switch between compressed audio and CD-DA (CD only)	Press <b>BAND/↶</b> .
Change drives in USB device (Devices that support the USB mass storage device class protocol only)	Press <b>BAND/↶</b> .

\*1 Compressed audio files only

\*2 When you use the fast forward or reverse function while playing a VBR file, the playback time may be not correct.

## Using Pioneer ARC APP

You can operate the unit from Pioneer ARC APP installed on an Android device. In some cases, you can control aspects of the application, such as source selection, pause, etc., by using the unit.

For details on what operations are available on the application, see the application's help section.

## **WARNING**

Do not attempt to operate the application while driving. Make sure to pull off the road and park your vehicle in a safe location before attempting to use the controls on the application.

### **For Android device users**

This function is compatible with a phone that runs Android 4.1 up to 7.1.2 and also supports AOA (Android Open Accessory) 2.0, but the compatibility depends on the smartphone.

You can download Pioneer ARC APP on Google Play™.

### **NOTE**

Some Android devices connected via AOA 2.0 may not work properly or emit sounds due to their own software design, regardless of the OS version.

## **Making a connection with Pioneer ARC APP**

- 1** Press the **M.C.** dial to display the main menu.
- 2** Turn the **M.C.** dial to select [SYSTEM], then press to confirm.
- 3** Turn the **M.C.** dial to select [ANDROID WIRED], then press to confirm.
- 4** Turn the **M.C.** dial to select [APP CONTROL], then press to confirm.
- 5** Turn the **M.C.** dial to select [P.APP AUTO ON], then press to confirm.
- 6** Turn the **M.C.** dial to select [ON], then press to confirm.
- 7** Connect this unit with the Android device via USB.  
Pioneer ARC APP on the device starts automatically.

### **NOTE**

If Pioneer ARC APP has not been installed on your Android device yet, a message that prompts you to install the application will appear on your Android device. Select [OFF] in [P.APP AUTO ON] to clear the message (page 14).

## **Listening to music on Android**

- 1** Press **SRC/OFF** to select [ANDROID].

### **Basic operations**

<b>Purpose</b>	<b>Operation</b>
Select a track	Press <b>◀◀</b> or <b>▶▶</b> .
Fast forward or reverse	Press and hold <b>◀◀</b> or <b>▶▶</b> .

Purpose	Operation
Pause/resume playback	Press <b>4/PAUSE</b> .

# Settings

You can adjust various settings in the main menu.


- 1 Press the **M.C.** dial to display the main menu.
- 2 Turn the **M.C.** dial to select one of the categories below, then press to confirm.
  - FUNCTION settings (page 12)
  - AUDIO settings (page 13)
  - SYSTEM settings (page 14)
  - ILLUMINATION settings (page 14)
- 3 Turn the **M.C.** dial to select the options, then press to confirm.

## FUNCTION settings

The menu items vary according to the source.

Menu Item	Description
<b>BSM</b> <input type="button" value="RADIO"/>	Store the six strongest stations on the number buttons ( <b>1/▲</b> to <b>6/↶</b> ) automatically.
<b>LOCAL</b> <input type="button" value="RADIO"/>	Restrict the tuning station according to the signal strength.
<b>FM:</b> [OFF], [LV1], [LV2], [LV3], [LV4] <b>AM:</b> [OFF], [LV1], [LV2]	
<b>SEEK</b> <input type="button" value="RADIO"/>	Assign <b>◀◀</b> or <b>▶▶</b> buttons to seek the stations one by one (manual tuning) or select a station from the preset channels.
<b>S.RTRV</b> <input type="button" value="CD"/> <input type="button" value="USB"/> <input type="button" value="ANDROID"/>	Enhance compressed audio and restore rich sound.
[1] (effective for low compression rates), [2] (effective for high compression rates), [OFF]	Not available when: <ul style="list-style-type: none"> <li>• CD-DA/CD-TEXT is played back.</li> <li>• The FLAC file is played back.</li> </ul>

# AUDIO settings

Menu Item	Description
<b>FADER*1</b>	Adjust the front and rear speaker balance.
<b>BALANCE</b>	Adjust the left and right speaker balance.
<b>EQ SETTING</b>	
[SUPER BASS], [POWERFUL], [DYNAMIC], [NATURAL], [VOCAL], [VIVID], [CUSTOM1], [CUSTOM2], [FLAT]	Select or customize the equalizer curve. [CUSTOM1] can be set separately for each source. However, each of the below combinations are set to the same setting automatically. [CUSTOM2] is a shared setting used for all sources.
Select an equalizer band and level for further customizing.	You can also switch the equalizer by pressing
<b>Equalizer band:</b> [80HZ], [250HZ], [800HZ], [2.5KHZ], [8KHZ]	<b>EQ</b>  repeatedly.
<b>Equalizer level:</b> [+6] to [-6]	
<b>LOUDNESS</b>	
[OFF], [LOW], [MID], [HI]	Compensate for clear sound at low volume.
<b>SUB.W*2</b>	
[NOR], [REV], [OFF]	Select the subwoofer phase.
<b>SUB.W CTRL*2*3</b>	
<b>Cut-off frequency:</b> [50HZ], [63HZ], [80HZ], [100HZ], [125HZ], [160HZ], [200HZ]	Only frequencies lower than those in the selected range are output from the subwoofer.
<b>Output level:</b> [-24] to [+6]	
<b>Slope level:</b> [-12], [-24]	
<b>BASS BOOST</b>	
[0] to [+6]	Select the bass boost level.
<b>HPF SETTING</b>	
<b>Cut-off frequency:</b> [OFF], [50HZ], [63HZ], [80HZ], [100HZ], [125HZ], [160HZ], [200HZ]	Only frequencies higher than the high-pass filter (HPF) cutoff are output from the speakers.
<b>Slope level:</b> [-12], [-24]	
<b>SLA</b>	
[+4] to [-4]	Adjust the volume level for each source except FM.

\*1 Not available when [SUB.W/SUB.W] is selected in [SP-P/O MODE] in the INITIAL settings (page 7).

\*2 Not available when [REAR/REAR] is selected in [SP-P/O MODE] in the INITIAL settings (page 7).

\*3 Not available when [OFF] is selected in [SUB.W].

## SYSTEM settings

You can also access to these menus when the unit is turned off.

Menu Item	Description
<b>CLOCK SET</b>	
	Set the clock (page 6).
<b>12H/24H</b>	
[12H], [24H]	Select the time notation.
<b>SCROLL SET</b>	
[ONCE], [LOOP], [OFF]	Select the way to scroll the text in the display window.
<b>AUX</b>	
[ON], [OFF]	Set to [ON] when using an auxiliary device connected to the unit.
<b>ANDROID WIRED</b>	
[MEMORY], [APP CONTROL]	Select the appropriate connection method for an Android device.
<b>P.APP AUTO ON</b>	
[ON], [OFF]	Select [ON] to automatically launch Pioneer ARC APP when an Android device is connected to the unit via AOA. (Not available when [MEMORY] is selected in [ANDROID WIRED].)
<b>USB AUTO</b>	
[ON], [OFF]	Select [ON] to automatically switch to [USB] source when a USB device is connected to the unit. Select [OFF] when a USB device is being connected to the unit just for charging.

## ILLUMINATION settings

Menu Item	Description
<b>DIM SETTING</b>	
[SYNC CLOCK], [MANUAL]	Select the way to change the display brightness.

Menu Item	Description
<b>BRIGHTNESS</b> [1] to [10]	Change the display brightness. The available setting ranges differ depending on [DIM SETTING].

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# Additional Information

## Troubleshooting

**The display automatically returns to the normal display.**

- No operations have been made for about 30 seconds.
  - Perform an operation.

**The repeat play range changes unexpectedly.**

- Depending on the repeat play range, the selected range may change when another folder or track is being selected or during fast forwarding/reversing.
  - Select the repeat play range again.

**A subfolder is not played back.**

- Subfolders cannot be played when [FLD] (folder repeat) is selected.
  - Select another repeat play range.

**The sound is intermittent.**

- You are using a device, such as a cellular phone, that may cause audible interference.
  - Move electrical devices that may be causing the interference away from the unit.

## Error messages

### Common

#### AMP ERROR

- This unit fails to operate or the speaker connection is incorrect.
- The protective circuit is activated.
  - Check the speaker connection.
  - Turn the ignition switch OFF and back to ON again. If the message remains, contact your dealer or an authorized Pioneer Service Station for assistance.

**NO XXXX (NO TITLE, for example)**

- There is no embedded text information.
  - Switch the display or play another track/file.

### CD player

#### ERROR-07, 11, 12, 17, 30

- The disc is dirty.
  - Clean the disc.
- The disc is scratched.
  - Replace the disc.

#### ERROR-07, 10, 11, 12, 15, 17, 30, A0

- There is an electrical or mechanical error.
  - Turn the ignition switch OFF and back to ON, or switch to a different source, then back to the CD player.

#### ERROR-15

- The inserted disc is blank.
  - Replace the disc.

#### ERROR-23

- Unsupported CD format.
  - Replace the disc.

#### FORMAT READ

- Sometimes there is a delay between the start of playback and when you start to hear any sound.
  - Wait until the message disappears and you hear sound.

#### NO AUDIO

- The inserted disc does not contain any playable files.
  - Replace the disc.

#### SKIPPED

- The inserted disc contains DRM protected files.
  - The protected files are skipped.

---

## PROTECT

- All the files on the inserted disc are embedded with DRM.
  - Replace the disc.

## USB device

---

### FORMAT READ

- Sometimes there is a delay between the start of playback and when you start to hear any sound.
  - Wait until the message disappears and you hear sound.

---

### NO AUDIO

- There are no songs.
  - Transfer the audio files to the USB device and connect.
- The connected USB device has security enabled.
  - Follow the USB device instructions to disable the security.

---

### SKIPPED

- The connected USB device contains DRM protected files.
  - The protected files are skipped.

---

### PROTECT

- All the files on the connected USB device are embedded with DRM.
  - Replace the USB device.

---

### N/A USB

- The connected USB device is not supported by this unit.
  - Disconnect your device and replace it with a compatible USB device.

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### HUB ERROR

- The USB device connected via a USB hub is not supported by this unit.
  - Connect the USB device directly to this unit using a USB cable.

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### CHECK USB

- The USB connector or USB cable has short-circuited.

- Check that the USB connector or USB cable is not caught in something or damaged.

- The connected USB device consumes more than maximum allowable current.
  - Disconnect the USB device and do not use it. Turn the ignition switch OFF and back to ACC or ON. Connect only compliant USB devices.

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### ERROR-19

- Communication failed.
  - Perform one of the following operations, then return to the USB source.
    - Disconnect the USB device.
    - Change to a different source.

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### ERROR-23

- USB device was not formatted properly.
  - Format the USB device with FAT12, FAT16 or FAT32.

## Handling guidelines

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### Discs and player

- Use only discs that feature either of the following two logos.



- Use 12-cm discs.
- Use only conventional, fully circular discs.
- The following types of discs cannot be used with this unit:
  - DualDiscs
  - 8-cm discs: Attempts to use such discs with an adaptor may cause the unit to malfunction.
  - Oddly shaped discs
  - Discs other than CDs
  - Damaged discs, including discs that are cracked, chipped or warped



- CD-R/RW discs that have not been finalized
- Do not write on or apply chemicals to the surface of the discs.
- To clean a CD, wipe the disc with a soft cloth outward from the center.
- Condensation may temporarily impair the player's performance. Let it rest for about one hour to adjust to a warmer temperature. Also, wipe any damp discs off with a soft cloth.
- When using discs that can be printed on label surfaces, check the instructions and the warnings of the discs. Depending on the discs, inserting and ejecting may not be possible. Using such discs may result in damage to this equipment.
- Do not attach commercially available labels or other materials to the discs.
  - The discs may warp making the disc unplayable.
  - The labels may come off during playback and prevent ejection of the discs, which may result in damage to the equipment.

## USB storage device

- Connections via USB hubs are not supported.
- Firmly secure the USB storage device before driving. Do not let the USB storage device fall onto the floor, where it may become jammed under the brake or accelerator pedal.
- Depending on the USB storage device, the following problems may occur.
  - Operations may vary.
  - The storage device may not be recognized.
  - Files may not be played back properly.
  - The device may cause audible interference when you are listening to the radio.

## Compressed audio compatibility

- Only the first 32 characters can be displayed as a file name (including the file extension) or a folder name.
- The unit may not work properly depending on the application used to encode WMA files.
- There may be a slight delay at the start of the playback of audio files embedded with image data, or audio files stored on a USB device with numerous folder hierarchies.

### CAUTION

- Pioneer cannot guarantee compatibility with all USB mass storage devices, and assumes no responsibility for any loss of data on media players, smartphones, or other devices while using this product.
- Do not leave discs or a USB storage device in any place that is subject to high temperatures.

## WMA files

File extension	.wma
Bit rate	48 kbps to 320 kbps (CBR), 48 kbps to 384 kbps (VBR)
Sampling frequency	32 kHz, 44.1 kHz, 48 kHz
Windows Media™ Audio Professional, Lossless, Voice/DRM Stream/Stream with video	Not compatible

## MP3 files

File extension	.mp3
Bit rate	8 kbps to 320 kbps (CBR), VBR

Sampling frequency	8 kHz to 48 kHz (32 kHz, 44.1 kHz, 48 kHz for emphasis)
Compatible ID3 tag version	1.0, 1.1, 2.2, 2.3, 2.4 (ID3 tag Version 2.x is given priority over Version 1.x.)
M3u playlist	Not compatible
MP3i (MP3 interactive), mp3 PRO	Not compatible

## WAV files

- WAV file formats cannot be connected via MTP.

File extension	.wav
Quantization bits	8 and 16 (LPCM)
Sampling frequency	16 kHz to 48 kHz (LPCM)

## FLAC files

- FLAC file formats cannot be connected via MTP.
- FLAC files may not be playable, depending on the encoder.

File extension	.flac
Sampling frequency	8/11.025/12/16/22.05/24/32/44.1/48 kHz
Quantization bit rate	16 bit
Channel mode	1/2 ch

## Disc

- Regardless of the length of the blank section between the songs from the original recording, compressed audio discs play with a short pause between songs.

Playable folder hierarchy	Up to eight tiers (A practical hierarchy is less than two tiers.)
Playable folders	Up to 99
Playable files	Up to 999

File system	ISO 9660 Level 1 and 2, Romeo, Joliet
Multi-session playback	Compatible
Packet write data transfer	Not compatible

## USB device

- There may be a slight delay when starting playback of audio files on a USB storage device with numerous folder hierarchies.

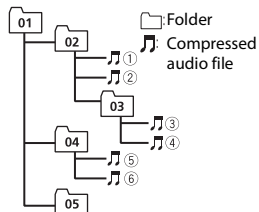
Playable folder hierarchy	Up to eight tiers (A practical hierarchy is less than two tiers.)
Playable folders	Up to 500
Playable files	Up to 15 000
Playback of copyright-protected files	Not compatible
Partitioned USB device	Only the first partition can be played.

## Sequence of audio files

The user cannot assign folder numbers and specify playback sequences with this unit. Sequence of audio file depends on the connected device.

Note that the hidden files in a USB device cannot be played back.

## Example of a hierarchy



Level 1 Level 2 Level 3 Level 4

01 to 05: Folder number

① to ⑥: Playback sequence

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### WMA

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### FLAC

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## Specifications

### General

Power source: 14.4 V DC (10.8 V to 15.1 V allowable)

Grounding system: Negative type

Maximum current consumption: 10.0 A

Dimensions (W × H × D):

DIN

Chassis: 178 mm × 50 mm × 165 mm  
(7 in. × 2 in. × 6-1/2 in.)

Nose: 188 mm × 58 mm × 17 mm  
(7-3/8 in. × 2-1/4 in. × 5/8 in.)

D

Chassis: 178 mm × 50 mm × 165 mm  
(7 in. × 2 in. × 6-1/2 in.)

Nose: 170 mm × 46 mm × 17 mm (6-3/4 in. × 1-3/4 in. × 5/8 in.)

Weight: 1 kg (2.2 lbs)

## Audio

Maximum power output:

- 50 W × 4 ch/4 Ω (for no subwoofer)
- 50 W × 2 ch/4 Ω + 70 W × 1 ch/2 Ω (for subwoofer)

Continuous power output:

22 W × 4 (50 Hz to 15 000 Hz, 5 % THD, 4 Ω load, both channels driven)

Load impedance: 4 Ω (4 Ω to 8 Ω allowable)

Preout maximum output level: 2.0 V

Loudness contour: +10 dB (100 Hz), +6.5 dB (10 kHz) (volume: -30 dB)

Equalizer (5-Band Graphic Equalizer):

Frequency: 80 Hz/250 Hz/800 Hz/2.5 kHz/8 kHz

Equalization range: ±12 dB (2 dB step)

Subwoofer (mono):

Frequency: 50 Hz/63 Hz/80 Hz/100 Hz/125 Hz/160 Hz/200 Hz

Slope: -12 dB/oct, -24 dB/oct

Gain: +6 dB to -24 dB

Phase: Normal/Reverse

## CD player

System: Compact disc audio system

Usable discs: Compact disc

Signal-to-noise ratio: 94 dB (1 kHz) (IHF-A network)

Number of channels: 2 (stereo)

MP3 decoding format: MPEG-1 & 2 Audio Layer 3

WMA decoding format: Ver. 7, 8, 9, 9.1, 9.2 (2 ch audio)

WAV signal format: Linear PCM (Non-compressed)

## USB

USB standard specification: USB 2.0 full speed

Maximum current supply: 1.5 A

USB Protocol:

MSC (Mass Storage Class)

MTP (Media Transfer Protocol)

AOA (Android Open Accessory) 2.0

File system: FAT12, FAT16, FAT32

MP3 decoding format: MPEG-1 & 2 Audio Layer 3

WMA decoding format: Ver. 7, 8, 9, 9.1, 9.2 (2 ch audio)

FLAC decoding format: v1.3.0 (Free Lossless Audio Codec)

WAV signal format: Linear PCM (Non-compressed)

## FM tuner

Frequency range: 87.9 MHz to 107.9 MHz

Usable sensitivity: 11 dBf (1.0 μV/75 Ω, mono, S/N: 30 dB)

Signal-to-noise ratio: 72 dB (IHF-A network)

## AM tuner

Frequency range: 530 kHz to 1 710 kHz

Usable sensitivity: 25 μV (S/N: 20 dB)

Signal-to-noise ratio: 62 dB (IHF-A network)

## CTA2006 Specifications



Power output: 14 W RMS × 4 Channels (4 Ω and ≤ 1 % THD+N)

S/N ratio: 91 dBA (reference: 1 W into 4 Ω)

## NOTE

Specifications and the design are subject to modifications without notice.