LED Television
User’s Guide

Commercial Television
J22CE820    J32CE720
J26CE820    J42CE820

Made for Today
Important Information

CAUTION:
To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer to qualified service personnel.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING
To prevent fire or shock hazards, do not expose this product to rain or moisture.
Important Information

CAUTION
Do not attempt to modify this product in any way without written authorization from RCA. Unauthorized modification could void the user's authority to operate this product.

CAUTION
THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY. TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.

WARNING
Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on the apparatus.

CAUTION
When used outside of U.S., other power-supply cords may be used if the cord is approved by the local regulating agency.

CLEANING AND DISINFECTION
Clean the exterior of this television by removing dust with a lint-free cloth.
CAUTION: To avoid damage to the surface of the television, do not use abrasive or chemical cleaning agents.

This apparatus with class I construction shall be connected to a main socket outlet with a protective earthing connection.
Important Information

DISCONNECTING DEVICE FROM MAINS
Main plug is the disconnecting device. The plug must remain readily operable.

IMPORTANT SAFEGUARDS FOR YOU AND YOUR NEW PRODUCT
YOUR PRODUCT HAS BEEN MANUFACTURED AND TESTED WITH YOUR SAFETY IN MIND. HOWEVER, IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARDS. TO AVOID DEFEATING THE SAFEGUARDS THAT HAVE BEEN BUILT INTO YOUR NEW PRODUCT, PLEASE READ AND OBSERVE THE FOLLOWING SAFETY POINTS WHEN INSTALLING AND USING YOUR NEW PRODUCT, AND SAVE THEM FOR FUTURE REFERENCE. OBSERVING THE SIMPLE PRECAUTIONS DISCUSSED IN THIS MANUAL CAN HELP YOU GET MANY YEARS OF ENJOYMENT AND SAFE OPERATION THAT ARE BUILT INTO YOUR NEW PRODUCT.

Note
- If the TV feels cold to the touch, there may be a small “flicker” when it is turned on. This is normal, there is nothing wrong with the TV.
- Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the TV’s performance.
- Avoid touching the LED screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.

REGULATORY INFORMATION
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
IMPORTANT SAFETY INSTRUCTIONS
Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings.
   Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus
   (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug
   has two blades with one wider than the other. A grounding type plug has two blades and a
   third grounding prong. The wide blade or the third prong is provided for your safety. If the
   provided plug does not fit into your outlet, consult an electrician for replacement of the obso-
   lete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience recep-
    tacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with
    the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to
    avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel.
    Servicing is required when the apparatus has been damaged in any way, such as power-supply
    cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the
    apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. If an outside antenna or cable system is connected to the product, be sure the antenna or cable
    system is grounded so as to provide some protection against voltage surges and built-up static
    charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984 (Section 54 of
    Canadian Electrical Code, Part 1) provides information with respect to proper grounding of the
    mast and supporting structure, grounding of the leadin wire to an antenna-discharge unit, size of
    grounding conductors, location of antenna-discharge unit, connection to grounding electrodes,
    and requirements for the grounding electrode. See following example.
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Chapter 1: Connections and Setup

Things to Consider Before You Connect

Protect Against Power Surges
• Connect all devices before you plug any of their power cords into the wall outlet or power strip. Never plug your TV into an outlet that is controlled by a wall switch.
• Turn off the TV and/or device(s) before you connect or disconnect any cables.
• Make sure all antennas and cables are properly grounded. Refer to the Important Safety Instructions at the beginning of the User’s Guide.

Protect Devices from Overheating
• Don’t block ventilation holes on any of the devices. Arrange the devices so that air can circulate freely.
• Don’t stack devices.
• If you place devices in a stand, make sure you allow adequate ventilation.
• If you connect an audio receiver or amplifier, place it on the top shelf so the heated air from it won’t flow around other devices.

Position Cables Properly to Avoid Audio Interference
• Insert each cable firmly into the designated jack.
• If you place devices above the TV, route all cables down the side of the back of the TV instead of straight down the middle.
• If your antenna uses 300-ohm twin lead cables, do not coil the cables. Also, keep the twin lead cables away from audio/video cables.
• Use shielded interface cables with ferrite cores to maintain compliance for this product.

Use Indirect Light
Don’t place the TV where sunlight or room lighting will be directed toward the screen. Use soft or indirect lighting.

Remote Control
You will need a master remote or USB Cloner to set up the TV. Contact your RCA Commercial Distributor to purchase these.

Check Supplied Parts
Check that the following parts were packed with your product.
Chapter 1: Connections and Setup

Front Panel - J22CE820

1. VOL- / VOL+
   Adjusts sound level and menu settings.

2. CH \( \downarrow \) / CH \( \uparrow \)
   Select a channel and menu settings.

3. SOURCE
   Selects the TV, AV(AV1), Side AV(AV2), S-Video, YPBPR, VGA, HDMI1, HDMI2 or USB mode.

4. MENU
   Display on screen menus.

5. POWER
   Switches the set on or off.

6. Power Indicator
   Illuminates to bright blue when the TV is on. When the TV is powered off, this LED is also off.

Remote control sensor
   Accepts the IR signal of remote controller.

Note
   - Image shown may differ from your TV.
Chapter 1: Connections and Setup

Rear Panel - J22CE820

1. AC IN
   This TV operates on AC power.

2. HDMI/DVI IN1
   Connect to the HDMI jack for device with HDMI output. This input can also be used as a DVI connection with separate analog audio inputs.

3. HDMI IN2
   Connect to the HDMI jack for device with HDMI output.

4. AUDIO IN (RGB/DVI)
   Connect to the audio output jack on your PC.

5. RGB IN (PC)
   Connect to the video output jack on your PC.

6. COMPONENT IN (YPbPr)
   Video/Audio inputs for Component.

7. AV IN 1
   Connects to your Audio/Video devices using a composite (Yellow/Red/White) cable.

8. S-VIDEO IN
   Connects to your video devices using an S-Video cable.

9. AUDIO OUT
   Connect analog audio to various types of equipment.

10. SERVICE (RS232)
    This port is used for service.

11. ANTENNA/CABLE IN
    Connect to your antenna or cable box for TV signal.

12. AV IN 2
    Connects to your Audio/Video devices using a composite (Yellow/Red/White) cable.

13. USB IN
    USB device interface.

Note
- Image shown may differ from your TV.
Chapter 1: Connections and Setup

Front Panel - J26CE820

1. **VOL- / VOL+**
   Adjusts sound level and menu settings.

2. **CH ◀ / CH ▶**
   Selects a channel and menu settings.

3. **SOURCE**
   Selects the TV, AV(AV1), Side AV(AV2), S-Video, YPbPr, VGA, HDMI1, HDMI2 or USB mode.

4. **MENU**
   Display on screen menus.

5. **POWER**
   Switches the set on or off.

6. **Power Indicator**
   Illuminates to bright blue when the TV is on. When the TV is powered off, this LED is also off.
   **Remote control sensor**
   Accepts the IR signal of remote controller.

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**Note**
- Image shown may differ from your TV.
Chapter 1: Connections and Setup

Rear Panel - J26CE820

1. AC IN
   This TV operates on AC power.

2. HDMI/DVI IN1
   Connect to the HDMI jack for device with HDMI output.
   This input can also be used as a DVI connection with separate analog audio inputs.

3. HDMI IN2
   Connect to the HDMI jack for device with HDMI output.

4. AUDIO IN (RGB/DVI)
   Connect to the audio output jack on your PC.

5. RGB IN (PC)
   Connect to the video output jack on your PC.

6. COMPONENT IN (YPbPr)
   Video/Audio inputs for Component.

7. AV IN 1
   Connects to your Audio/Video devices using a composite (Yellow/Red/White) cable.

8. S-VIDEO IN
   Connects to your video devices using an S-Video cable.

9. AUDIO OUT
   Connect analog audio to various types of equipment.

10. SERVICE (RS232)
    This port is used for service.

11. ANTENNA/CABLE IN
    Connect to your antenna or cable box for TV signal.

12. AV IN 2
    Connects to your Audio/Video devices using a composite (Yellow/Red/White) cable.

13. USB IN
    USB device interface.

Note
- Image shown may differ from your TV.
Chapter 1: Connections and Setup

Front Panel - J32CE720

1. VOL- / VOL+
   Adjusts sound level and menu settings.

2. CH ‹ / CH ›
   Select a channel and menu settings.

3. SOURCE
   Selects the TV, AV(AV1), Side AV(AV2), S-Video, YPBP, VGA, HDMI1, HDMI2 or USB mode.

4. MENU
   Display on screen menus.

5. POWER
   Switches the set on or off.

6. Power Indicator
   Illuminates to bright blue when the TV is on. When the TV is powered off, this LED is also off.

   Remote control sensor
   Accepts the IR signal of remote controller.

Note
- Image shown may differ from your TV.
Chapter 1: Connections and Setup

Rear Panel - J32CE720

1. AC IN
   This TV operates on AC power.

2. HDMI/DVI IN1
   Connect to the HDMI jack for device with HDMI output.
   This input can also be used as a DVI connection with separate analog audio inputs.

3. HDMI IN2
   Connect to the HDMI jack for device with HDMI output.

4. AUDIO IN (RGB/DVI)
   Connect to the audio output jack on your PC.

5. RGB IN (PC)
   Connect to the video output jack on your PC.

6. COMPONENT IN (YPbPr)
   Video/Audio inputs for Component.

7. AV IN 1
   Connects to your Audio/Video devices using a composite (Yellow/Red/White) cable.

8. S-VIDEO IN
   Connects to your video devices using an S-Video cable.

9. AUDIO OUT
   Connect analog audio to various types of equipment.

10. SERVICE(RS232)
    This port is used for service.

11. ANTENNA/CABLE IN
    Connect to your antenna or cable box for TV signal.

12. AV IN 2
    Connects to your Audio/Video devices using a composite (Yellow/Red/White) cable.

13. USB IN
    USB device interface.

Note
- Image shown may differ from your TV.
Chapter 1: Connections and Setup

Front Panel - J42CE820

1. **VOL- / VOL+**
   Adjusts sound level and menu settings.

2. **CH ▲ / CH ▼**
   Select a channel and menu settings.

3. **SOURCE**
   Selects the TV, AV(AV1), Side AV(AV2), S-Video, YPbPr, VGA, HDMI1, HDMI2 or USB mode.

4. **MENU**
   Display on screen menus.

5. **POWER**
   Switches the set on or off.

6. **Power Indicator**
   Illuminates to bright blue when the TV is on. When the TV is powered off, this LED is also off.
   **Remote control sensor**
   Accepts the IR signal of remote controller.

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**Note**
- Image shown may differ from your TV.
Chapter 1: Connections and Setup

Rear Panel - J42CE820

1. AC IN
   This TV operates on AC power.

2. HDMI/DVI IN1
   Connect to the HDMI jack for device with HDMI output.
   This input can also be used as a DVI connection with separate analog audio inputs.

3. HDMI IN2
   Connect to the HDMI jack for device with HDMI output.

4. AUDIO IN (RGB/DVI)
   Connect to the audio output jack on your PC.

5. RGB IN (PC)
   Connect to the video output jack on your PC.

6. COMPONENT IN (YPbPr)
   Video/Audio inputs for Component.

7. AV IN 1
   Connects to your Audio/Video devices using a composite (Yellow/Red/White) cable.

8. S-VIDEO IN
   Connects to your video devices using an S-Video cable.

9. AUDIO OUT
   Connect analog audio to various types of equipment.

10. SERVICE (RS232)
    This port is used for service.

11. ANTENNA/CABLE IN
    Connect to your antenna or cable box for TV signal.

12. AV IN 2
    Connects to your Audio/Video devices using a composite (Yellow/Red/White) cable.

13. USB IN
    USB device interface.

Note
- Image shown may differ from your TV.
Chapter 1: Connections and Setup

Wall mount Installation

The set can be installed on a wall as shown above. For proper ventilation, allow a clearance of 4 inches on all four sides from the wall. Detailed instructions are available from your dealer, refer to the optional Wall Mounting Bracket Installation and Setup Guide. (Wall Mount Sold Separately)

**Note**
- This Television should be installed by a Qualified Service Personnel.
Chapter 1: Connections and Setup

You must use a UL listed wall mount or the DTI Services, LLC DTI-006 Wall Mount Bracket whenever Wall Mounting this television.

A skilled person should be contacted to perform the installation of the television and wall mount. Specification of a generic “UL Listed wall mount” should additionally include: minimum weight that the mount must be able to support, minimum screen size that the mount must be able to support, instructions furnished as part of the wall mount must be closely followed, the wall mount must be suitable to support the type of television under consideration.

Vesa Standard TV Mounts - 22/26 inches

General Guidelines: Choosing a Location for installing a VESA Standard Mount

To the right are some examples of VESA standard mounts. Since there are numerous types of stands and mounts available, only a few are shown here. Refer to the instructions provided with the TV stand that will be used to mount the TV. Be sure the style of stand selected is capable of supporting the weight of the TV and is appropriate for the application.

Wall Mounts

If the mount will be on a wall, a typical wooden stud behind the wall board would be the preferred choice for a location to attach the wall mount. The wall mount location chosen should be appropriate for drilling holes and have available the required power source as well as antenna/cable and any other equipment leads as necessary.

Pedestal Mounts and Stands

A sturdy surface on a desk or other similar flat table-like furniture would be the appropriate location for mounting a pedestal-style TV stand. Most stands are designed so that the wiring is threaded through the stand itself or a loopthrough style clamp so that the wiring is neatly bunched and not strung in such a way as to create a potential hazard to the user. (Some stands are portable and can be moved from one location to another.) Be sure all safety considerations are followed.

Caution: Tightening wall mount screws that are too long could cause damage to the internal components of the television.

Use M4 X “L” bolts to mount LED. (“L” = Wall Mount bracket thickness + 0.3 inch or below for J22CE820)

Use M5 X “L” bolts to mount LED. (“L” = Wall Mount bracket thickness + 0.3 inch or below for J26CE820)

Note: Screw length needed depends on the wall mount used. For further information, refer to the VESA Wall Mounting Instruction Guide.
Chapter 1: Connections and Setup

You must use a UL listed wall mount or the DTI Services, LLC DTI-006 Wall Mount Bracket whenever Wall Mounting this television. A skilled person should be contacted to perform the installation of the television and wall mount.

Specification of a generic "UL Listed wall mount" should additionally include: minimum weight that the mount must be able to support, minimum screen size that the mount must be able to support, instructions furnished as part of the wall mount must be closely followed, the wall mount must be suitable to support the type of television under consideration.

Vesa Standard TV Mounts - 32/42 inches

The following examples are VESA Standard wall mounts. Since there are numerous types of stands and mounts available, only a few are shown here. Refer to the instructions provided with the TV stand that will be used to mount the TV.

General Guidelines: Choosing a location for installing a VESA Standard Mount

Be sure the style of stand selected is capable of supporting the weight of the TV.

If the mount will be on a wall, a typical wooden stud behind the wall board would be the preferred choice for a location to attach the wall mount. The wall mount location chosen should be appropriate for drilling holes and have available the required power source as well as antenna/cable and other equipment leads.

For pedestal-type mounts, a sturdy surface on a desk or other similar flat table-like surface would be the appropriate location for mounting a pedestal-style TV stand. (Some stands are portable and can be moved from one location to another.) Be sure all safety considerations are followed.

Most stands are designed so that the wiring would be threaded through the stand itself or a loop-through style clamp so that the wiring is neatly bunched and not strung in such a way as to create a potential hazard to the user.

Caution: Tightening wall mount screws that are too long could cause damage to the internal components of this television.

Use M5 X "L" bolts to mount LED. ("L" = Wall Mount bracket thickness + 0.5 inch or below for J32CE720)

Use M6 X "L" bolts to mount LED. ("L" = Wall Mount bracket thickness + 0.3 inch or below for J42CE820)

Note
- Image shown may differ from your TV.
- Screw length needed depends on the wall mount used. For further information, refer to the VESA Wall Mounting Instruction Guide.
Chapter 1: Connections and Setup

Antenna Connection

Multi-family Dwellings / Apartments
(Connect to wall antenna socket)

- Wall Antenna Socket
- RF Coaxial Wire (75 ohm)
- Turn clockwise to tighten.
- Be careful not to bend the bronze wire when connecting to an antenna port.

* Separately purchase a RF Coaxial Wire(75 ohm)

Single-family Dwellings / Houses
(Connect to wall jack for outdoor antenna)

Signal Amplifier

Note
- To improve the picture quality in a poor signal area, please purchase a signal amplifier and install properly.
- If the antenna is not installed properly, contact your dealer for assistance.
Chapter 1: Connections and Setup

VCR Connection

- To avoid picture noise (interference), leave an adequate distance between the TV and the VCR.

When connecting with an antenna

1. Connect the Antenna out socket of the VCR to the Antenna input socket on the TV.
2. Power up the VCR and Television.
3. Tune the TV to the channel output by the VCR. (typically ch.3 or 4.)
4. Refer to the VCR manual for operating instructions.

When connecting with an RCA cable

1. Connect the AUDIO/VIDEO jacks between TV and VCR. Match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red)
2. Insert a video tape into the VCR and press PLAY on the VCR.
3. Select the AV1 or AV2 input source using the INPUT button on the remote control.
4. Refer to the VCR manual for operating instructions.
When connecting with a S-Video cable

1. Connect the **S-Video** output of the VCR to the **S-Video** input on the set.
2. Connect the audio outputs of the VCR to the **AV Audio** input jacks on the set.
3. Insert a video tape into the VCR and press **Play** on the VCR.
4. Select the **S-Video** input source using the **Input** button on the remote control.
5. Refer to the VCR manual for operating instructions.
Chapter 1: Connections and Setup

DVD Connection

When connecting with a HDMI cable

1. Connect the HDMI output of the DVD to the HDMI/DVI IN 1 or HDMI IN 2 jack on the set.
2. Select HDMI1 or HDMI2 input source using the INPUT button on the remote control.
3. Refer to the DVD player’s manual for operating instructions.

When connecting with a Component cable

1. Connect the video outputs (Y, PB, PR) of the DVD to the COMPONENT VIDEO(Y/Pb/Pr) jacks on the set.
2. Connect the audio outputs of the DVD to the COMPONENT AUDIO jacks on the set.
3. Turn on the DVD player, insert a DVD.
4. Select YPbPr source using the INPUT button on the remote control.
5. Refer to the DVD player’s manual for operating instructions.
Chapter 1: Connections and Setup

When connecting with a S-Video cable

1. Connect the **S-VIDEO** output of the DVD to the **S-VIDEO** input on the set.
2. Connect the audio outputs of the DVD to the **AV AUDIO** input jacks on the set.
3. Turn on the DVD player, insert a DVD.
4. Select the **S-VIDEO** input source using the **INPUT** button on the remote control.
5. Refer to the DVD player's manual for operating instructions.

**Diagram**: Rear panel of the set
Chapter 1: Connections and Setup

HDSTB Connection

- This TV can receive Digital Over-the-air/Cable signals without an external digital set-top box. However, if you do receive Digital signals from a digital set-top box or other digital external device, refer to the figure as shown below.

**When connecting with a D-Sub 15 pin cable**

1. Connect the RGB output of the digital set-top box to the RGB IN (PC) jack on the set.
2. Connect the audio outputs of the set-top box to the AUDIO IN (RGB/DVI) jack on the set.
3. Turn on the digital set-top box.
4. Select VGA input source using the INPUT button on the remote control.
5. Refer to the digital set-top box manual for operating instructions.

**When connecting with a HDMI to DVI cable**

1. Connect the DVI output of the digital set-top box to the HDMI/DVI IN 1 jack on the set.
2. Connect the audio outputs of the set-top box to the AUDIO IN (RGB/DVI) jack on the set.
3. Turn on the digital set-top box.
4. Select HDMI input source using the INPUT button on the remote control.
5. Refer to the digital set-top box manual for operating instructions.
Chapter 1: Connections and Setup

When connecting with a Component cable

1. Connect the video outputs (Y, PB, PR) of the digital set-top box to the COMPONENT VIDEO(Y/Pb/Pr) jacks on the set.
2. Connect the audio outputs of the digital set-top box to the COMPONENT AUDIO jacks on the set.
3. Turn on the digital set-top box.
4. Select YPbPr source using the INPUT button on the remote control.
5. Refer to the digital set-top box manual for operating instructions.

When connecting with a HDMI cable

1. Connect the HDMI output of the digital set-top box to the HDMI/DVI IN 1 or HDMI IN 2 jack on the set.
2. Turn on the digital set-top box.
3. Select HDMI1 or HDMI2 input source using the INPUT button on the remote control.
4. Refer to the digital set-top box manual for operating instructions.
Chapter 1: Connections and Setup

External A/V Source

1. Connect the AUDIO/VIDEO jacks between TV and external equipment. Match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red)

2. Select the AV1 or AV2 input source using the INPUT button on the remote control.

3. Operate the corresponding external equipment.

4. Refer to the external equipment manual for operating instructions.
Chapter 1: Connections and Setup

PC Connection

- When connecting with a D-Sub 15 pin cable

1. Connect the RGB output of the PC to the RGB IN (PC) jack on the set.
2. Connect the PC Audio Output to the AUDIO IN (RGB/DVI) jack on the TV using a male-to-male 3.5mm mini jack.
3. Turn on both the PC and TV.
4. Select the VGA input source on your TV by pressing either the INPUT buttons on the remote control.

- When connecting with a HDMI to DVI cable

1. Connect the DVI Output on the PC to the HDMI / DVI IN 1 Input jack on the TV.
2. Connect the PC Audio Output to the AUDIO IN (RGB/DVI) jack on the TV using a male-to-male 3.5mm mini jack.
3. Turn on both the PC and TV.
4. Select the HDMI input source on your TV by pressing either the INPUT buttons on the remote control.
Chapter 1: Connections and Setup

Resolution

- **PC**

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Horizontal Frequency (kHz)</th>
<th>Vertical Frequency (Hz)</th>
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</thead>
<tbody>
<tr>
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<td>31.47</td>
<td>59.94</td>
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<tr>
<td>800 x 600</td>
<td>35.16</td>
<td>56.25</td>
</tr>
<tr>
<td>1024 x 768</td>
<td>37.88</td>
<td>60.32</td>
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</table>

- **HDMI**

<table>
<thead>
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<th>Vertical Frequency (Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>480/60P</td>
<td>60.000</td>
</tr>
<tr>
<td>720/60P</td>
<td>60.000</td>
</tr>
<tr>
<td>1080/60I</td>
<td>60.000</td>
</tr>
<tr>
<td>1080/60P</td>
<td>60.000</td>
</tr>
</tbody>
</table>

**Note**

a. The synchronization input form is separate.
b. If the resolution is not supported, 'Not Support!' message will be displayed.

**USB Port**

1. Connect the USB device to the USB IN jack on the set.
2. Select the USB input source using the INPUT button on the remote control.
3. Follow the on screen display to access the USB functions.
Chapter 2: Using the Remote Control

Basic (User) Remote

The basic remote control (KM38R02) is used by the viewer for basic operating functions. It is designed so that the viewer cannot alter certain master remote-specified features. The Sleep, Closed Captioning, and Channel Guide features can be accessed directly with remote buttons.

1. POWER
   Switches the set on or off.

2. PICTURE
   Changes picture settings to a pre-defined mode.

3. SOUND
   Changes sound settings to a pre-defined mode.

4. SLEEP
   Sets the sleep timer.

5. SYSTEM
   Configures the remote preamble (Bed 1/Bed 2/Bed 3) for use with multi TVs in 1 room.
   Press and hold <SYSTEM> and <1> key to set the remote for “Bed1” (TV1).
   Press and hold <SYSTEM> and <2> key to set the remote for “Bed2” (TV2).
   Press and hold <SYSTEM> and <3> key to set the remote for “Bed3” (TV3).
   Refer to “Key Management”, “RCU type” in Chapter 4.

6. RATIO
   Selects your desired picture aspect ratio.

7. SAP
   Selects MTS sound / audio language.

8. INFO
   Displays the current channel information.

9. RESET
   Not Used.

10. NUMBER BUTTONS
    Selects channel numbers.

11. Hyphen ( - )
    Used when entering a digital channel (ex: 10 - )
Chapter 2: Using the Remote Control

12. GO BACK
   Returns to the previous channel.

13. VOL + / VOL -
    Adjusts sound level.

14. CH + / CH -
    Selects a channel.

15. MENU
    Displays “Basic” on screen menu.
    There are 2 remotes for this TV;
    KM38R02 - user Remote. This remote displays a basic user
    menu when the menu key is pressed.
    KM38R01 - installer Remote. This remote displays an
    installer menu when the menu key is pressed.

16. GUIDE
    Displays “Channel List” menu.

17. CC
    Selects the Caption menu directly.

18. INPUT
    Selects the TV, AV(AV1), Side AV(AV2), S-Video, YPBPR,
    VGA, HDMI1, HDMI2 or USB mode.

19. Navigational Controls
    Navigates menu items.

20. MUTE
    Switches the sound on or off.

21. CLEAR
    Exit from any OSD.
Chapter 2: Using the Remote Control

Master(Installer) Remote
The master remote control (KM38R01) accesses all of the TV’s menus. It is used to customize the TV’s functionality for specific users or specific situations.

1. **POWER**
   Switches the set on or off.

2. **PICTURE**
   Changes picture settings to a pre-defined mode.

3. **SOUND**
   Changes sound settings to a pre-defined mode.

4. **SLEEP**
   Sets the sleep timer.

5. **SYSTEM**
   Configures the remote preamble (Bed 1/Bed 2/Bed 3) for use with multi TVs in 1 room.
   - Press and hold <SYSTEM> and <1> key to set the remote for “Bed1” (TV1).
   - Press and hold <SYSTEM> and <2> key to set the remote for “Bed2” (TV2).
   - Press and hold <SYSTEM> and <3> key to set the remote for “Bed3” (TV3).
   Refer to “Key Management”, “RCU type” in Chapter 4.

6. **RATIO**
   Selects your desired picture aspect ratio.

7. **SAP**
   Selects MTS sound/audio language.

8. **INFO**
   Displays the current channel information.

9. **RESET**
   Not Used.

10. **NUMBER BUTTONS**
    Selects channel numbers.

11. **Hyphen ( - )**
    Used when entering a digital channel (ex: 10 - )
Chapter 2: Using the Remote Control

12. **GO BACK**
   - Returns to the previous channel.

13. **VOL + / VOL -**
   - Adjusts sound level.

14. **CH + / CH -**
   - Selects a channel.

15. **MENU**
   - Displays “Basic” on screen menu.
   - There are 2 remotes for this TV:
     KM38R02 - user Remote. This remote displays a basic user menu when the menu key is pressed.
     KM38R01 - installer Remote. This remote displays an installer menu when the menu key is pressed.

16. **GUIDE**
   - Displays “Channel List” menu.

17. **CC**
   - Selects the Caption menu directly.

18. **INPUT**
   - Selects the TV, AV(AV1), Side AV(AV2), S-Video, YPBP, VGA, HDMI1, HDMI2 or USB mode.

19. **Navigational Controls**
   - Navigates menu items.

20. **MUTE**
   - Switches the sound on or off.

21. **CLEAR**
   - Exit from any OSD.

---

Put Batteries in the Remote

- Remove the battery compartment cover from the back of the remote by pushing the tab and lifting off the cover.
- Insert two fresh batteries. Make sure the polarities (+ and -) are aligned correctly.
- Replace the cover.
Chapter 3: How to clone TV

These TVs include a full commercial interface that allows your facility to customize the performance to your specific needs. These settings are only accessible to the installer with the use of the Master Remote (KM38R01). Contact your RCA Commercial Distribution to obtain a master remote. You can access this menu by pressing MENU -> 9 -> 6 -> 3 -> 2 using the Master Remote.

Learning: Copying your settings out of the TV

You will need a properly configured USB Memory stick to learn the settings from your television.

Configuring your memory stick
To learn the settings out of your television, you will need a USB Memory Stick that contains a *.lst file for the settings data to be stored. Follow these steps to configure your USB memory stick. If you purchased a USB memory stick from RCA Commercial distribution, these files have already been set up. Proceed to the next section, “Learning settings from TV.”

1. Insert a blank USB memory stick into the USB port of your PC.
2. Open a text editor (example: Notepad.exe) on your PC.
3. Type the text “CLONE” in the text editor opened in step 2.
4. Save the text editor file to your USB stick with the extension, <filename>.lst

Note: <filename> can be any name you want to use. The important part is the .LST extension.

Learning Settings from TV
1. Plug the USB memory stick into the USB port of the television.
2. Using a Master Remote (KM38R01), press Menu ->9 ->6 ->3 -> 2 to enter the commercial menu.
3. Select “Clone Management” to enter the Clone Management sub menu.
4. Select “Copy to USB” to enter the Copy to USB sub menu.
5. Select the .lst file created in the “Configuring your memory stick” section to copy the settings. This file is where the settings will be stored.
Chapter 3: How to clone TV

Teaching: Placing settings into TV.

1. Plug the USB memory stick into the USB port of the television.
2. Using a Master Remote (KM38R01), press Menu->9->6->3->2 to enter the commercial menu.
3. Select “Clone Management” to enter the Clone Management sub menu.
4. Select “Clone to TV” to enter the clone to TV sub menu.
5. Select the desired .lst file and press the “OK” button to start the teaching process.
Chapter 4: Basic Operation

Plug in the TV
Plug the end of the power cord into the back of the TV. Plug the other end into a grounded wall outlet. Insert the plug completely into the outlet. Do not plug into an outlet controlled by a light switch.

Turn on the TV
Turn on your TV by pressing the Power button on the front of the TV or ON-OFF on the remote control.

Channel Scan
This function automatically finds all channels available through the Antenna or Cable and stores them in memory on the channel list. Channel Scans can only be performed using a Master remote.

Channel Selection
You can select a channel number with the CH+ / CH- button or NUMBER buttons.

Volume Adjustment
Press the VOL+ / VOL- button to adjust the sound level.

Sound Mute
Press the MUTE button. The sound is switched off and the mute Icon appears. To cancel mute mode, press the MUTE or VOL+ / VOL- button again.
Chapter 4: Basic Operation

Source Selection

1. Press the MENU button and then press the Down or Up button to select the Setup.

2. Press the OK button and then press the Down or Up button to select Input Source.

3. Press the Left or Right button to select your desired mode.

4. Press the MENU button to return to the previous menu.

   Note
   - If you want to select directly the Input Source, press the INPUT button on the remote control.

Language Selection

1. Press the MENU button and then press the Down or Up button to select the Setup.

2. Press the OK button and then press the Down or Up button to select OSD Language.

3. Press the Left or Right button to select your desired language.
   (Select between English, Español, Français)
**Chapter 5: Commercial Interface Menus**

These TVs include a full commercial interface that allows your facility to customize the performance to your specific needs. These settings are only accessible to the installer with the use of the Master Remote (KM38R01). Contact your RCA Commercial Distribution to obtain a master remote.

You can access this menu by pressing MENU -> 9 -> 6 -> 3 -> 2 using the Master Remote.

- You must set "Commercial Interface" to "On" to activate the below items.

### Channel

- **Direct Tuning Access**: If this function is on, you can tune to channels even if the channels are not in the channel list using the numeric keys. If this function is off, only channels in the channel list can be tuned.
- **ATSC Tune Mode**: This function sets the channel frequency type for Digital Channels to physical or virtual.
  - If the facility has a head end signal distribution system, set this to "physical".
- **Power On Source**: Use this setting to configure the signal source of the TV when it is turned on.
- **Tuner Mode**: Use this setting to configure the Tuner Type of the TV when it is turned on.
  - **Power On Source** should be set to "TV" to use this setting.
  - **Power On Major/Minor Channel**: Use this setting to configure the initial channel of the TV when it is turned on.
  - **Channel Hold**: If this function is on then you cannot change channels.
- **Merge Channel**: Use this setting to merge scanned channel lists in Antenna of Tuner mode and scanned channel lists in Cable of Tuner mode.

### OSD

- **Channel Banner**: If this function is off then channel banner will not appear when channel is changed.
- **OSD Timer**: Use this setting to configure the menu OSD timeout.
- **Clear V-Chip**: This function can be used to Clear V-Chip password and settings.
- **Power On CC**: This function sets the default Closed Caption mode when the TV is turned on.
Chapter 5: Commercial Interface Menus

Source

- Input Block: Use this setting to configure which inputs are available to the user through the input button.

- AUX Inputs: Use this setting to place inputs into the channel list. If you place an input in the channel list, the user can access the input using the CH buttons on the remote and Pillow Speaker.

- Auto Side AV: This is function of the auto side AV detection. If Auto Side AV is on and Side AV Signal is received, it will change input source to the Side AV.

Volume

- Initial Volume: This setting configures the turn on volume of the TV.
- Min Volume: This setting assigns the minimum volume level that the user can access.
- Max Volume: This setting assigns the maximum volume level that the user can access.
- Volume Hold: If this function is on then user cannot adjust volume level
- Blank and Mute: If this function is on, sound will be muted when video is not present on the external video source.
Chapter 5: Commercial Interface Menus

Power Management

- Auto Power On: This function sets the power state when AC power is applied to the TV.
  + Off: TV will go to standby mode
  + On: TV will turn on
  + Last: TV will resume the state it was in before AC power was removed.
- Auto Power Off: This function assigns the amount of time an inactive TV will remain on. It can be used by your facility to save energy.
- Power Always On: TV can not be turned off.
- No Signal Power Off: If there is no signal on the TV for 5 minutes or more, this function turns off the TV automatically.

Key Management

- Key Lock: This setting disables the keys on the front of the TV.
- RCU Type: This function assigns RCU type as TV1, TV2, TV3. This is used when more than 1 TV is being installed in the same room.
Note: The remote must be configured to send the matching RCU Type corresponding to this setting. This is done as follows: On the R130 K1 remote, press hold <SYSTEM> and <1> keys for 5 seconds to set it to “TV1”. Press and hold <SYSTEM> and <2> keys for 5 seconds to set it to “TV2”. Press and hold <SYSTEM> and <3> keys for 5 seconds to set it to “TV3”.
- Guest Menu Lock: Enables / Disables the guest menu.

Reset Commercial Interface

- This function will reset all data in the commercial interface menu to the factory defaults.
Chapter 6: User Operations

Picture Mode
The various Picture Modes allow you to adjust the display to your viewing preference.

Sound Mode
The Sound Mode preset selection will allow you to adjust the sound to your listening preference.

MTS
This TV can receive MTS stereo programs and any SAP (Secondary Audio Program) that the station may transmit. The television will automatically switch to Mono sound if the broadcasted channel is transmitted in Mono.

Audio Language
Other languages may be available if a digital signal is provided by the broadcasting station.

OSD Language
Selects the OSD (on screen display) language.

Input Source
Selects the input source.

Screen Mode
Changes the screen picture format. Screen size selection depends on the type of video input.

Caption
The Analog Caption function operates when watching a regular analog channel.

Parental
Adjusts the v-chip parental control settings.
Chapter 7: Using the TV’s Features

On Screen Menus

Your TV’s OSD (On Screen Display) may differ slightly from what is shown in this manual.

1. Press the **MENU** button and then press the **Down** or **Up** button to select each menu.

2. Press the **OK** button and then **Down, Up, Left** and **Right** buttons to navigate to the available menus.
Chapter 7: Using the TV's Features

Note: Some of these menu items can only be accessed using the Master Remote (KM38R01).

Setting up the TV Channel List

A master remote is needed to change the channel list.

Auto Scan

This function automatically finds all channels available through the Antenna or Cable and stores them in memory as the channel list.

1. Press the MENU button on the master remote to enter the on-screen menu and then press either the Down or Up button to select the TV sub-menu.

2. Press the OK button to enter the sub-menu and then press either the Down or Up button to select Tuner Mode.

3. Press the Left or Right button to select either Antenna or Cable.

4. Press the Down or Up button to select Channel Scan.

5. Press the OK button to start the auto search. The TV will begin memorizing all of the available channels.

6. Press the MENU button at any time to exit the channel scan process.

7. Once the channel scan is complete the channels found and recognized by the TV will be available for viewing.
Add / Delete a Channel
You can manually store or remove channels in whatever order you desire.

1. Press the **MENU** button on the master remote to enter the on-screen menu and then press either the **Down** or **Up** button to select the **TV** sub-menu.

2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **Channel Skip**.

3. Press the **OK** button and then press the **Down** or **Up** button to select channel you want to add or delete. If you want to skip the selected channel, press the **OK** button to check your selection.

4. All channels that have a check will be added to your viewing selection.

5. Press the **MENU** button to return to the previous menu.
Chapter 7: Using the TV's Features

Picture Controls

Adjusting The Picture Controls
The various Picture Modes allow you to adjust the display to your viewing preference.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Video** sub-menu.

2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **Picture Mode**.

3. Press the **Left** or **Right** button to select between **Cinema**, **Sport**, **Vivid**, **Home** or **User** Picture Modes.

4. Press the **MENU** button to return to the previous menu.
Chapter 7: Using the TV's Features

Manual Picture Controls
You can adjust picture Brightness, Contrast, Saturation, HUE and Sharpness to the levels you prefer.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Video** sub-menu.

2. Press the **OK** button to enter the sub-menu and use the **Left** or **Right** button to change the picture mode to **User**. Then, press either the **Down** or **Up** button to scroll to the desired picture option. *(Brightness, Contrast, Saturation, HUE, Sharpness)*

3. Press the **OK** button and then use the **Left** or **Right** button to adjust the selection to your preference.

4. Press the **MENU** button to return to the previous menu.

- **Brightness**
  Increases or decreases amount of white in your picture.

- **Contrast**
  Adjusts the difference between the light and dark levels in the picture.

- **Saturation**
  Adjusts intensity of all colors.

- **HUE**
  Adjusts the balance between red and green levels.

- **Sharpness**
  Adjusts the level of sharpness in the edges between the light and dark areas of the picture. The lower the level, the softer the image.
Chapter 7: Using the TV’s Features

Adaptive Back Light
If this function is on, then TV will control the back light level automatically by Average Picture Level(APL). Adjusts the brightness level of the back light. Increasing the back light level will result in a brighter picture and is recommended for use in brightly lit rooms. However, it will also decrease your black levels and results in a higher power consumption.

1. Press the MENU button to enter the on-screen menu and then press either the Down or Up button to select the Video sub-menu.
2. Press the OK button and then press the Down or Up button to select Adaptive Back Light.
3. Press the Left or Right button to select Off.
4. Press the Down or Up button to select Back Light.
5. Press the Left or Right button to adjust the selection to your preference.
6. Press the MENU button to return to the previous menu.

Reset Picture Mode
When changing your settings, you can select the Reset Picture Mode option to restore the previous settings.

1. Press the MENU button to enter the on-screen menu and then press either the Down or Up button to select the Video sub-menu.
2. Press the OK button to enter the sub-menu and use the Down or Up button to select Reset Picture Mode.
3. Once the confirmation window appears, press OK to restore the previous settings.
Chapter 7: Using the TV’s Features

Advanced Video

Dynamic Noise Reduction
Use this feature to reduce the amount of noise, or film grain, that may be present in the picture.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Video** sub-menu.

2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **Advanced Video**.

3. Press the **OK** button to enter the submenu and then press the **Down** or **Up** button to select **DNR**.

4. Press the **Left** or **Right** button to select between **Off**, **Low**, **Medium** or **Strong**.

5. Press the **MENU** button to return to the previous menu.

- **Off**
  Turns the screen noise reduction function off.

- **Low**
  Reduces screen noise at a low level.

- **Medium**
  Reduces screen noise at a medium level.

- **Strong**
  Reduces screen noise at a high level.
Chapter 7: Using the TV's Features

Adaptive Luma Control

Large amounts of dark areas present in a picture will result in a lower Average Picture Level (APL) and the overall picture will look too dark; activation of this feature will raise the APL to counteract this effect.

1. Press the MENU button to enter the on-screen menu and then press either the Down or Up button to select the Video sub-menu.

2. Press the OK button to enter the sub-menu and then press either the Down or Up button to select Advanced Video.

3. Press the OK button and then press the Down or Up button to select Adaptive Luma Control.

4. Press the Left or Right button to select Off, Low, Medium or Strong.

5. Press the MENU button to return to the previous menu.

Flesh Tone

In some cases, activation of this feature can result in a more pleasing display of sky and flesh colors.

1. Press the MENU button to enter the on-screen menu and then press either the Down or Up button to select the Video sub-menu.

2. Press the OK button to enter the sub-menu and then press either the Down or Up button to select Advanced Video.

3. Press the OK button and then press the Down or Up button to select Flesh Tone.

4. Press the Left or Right button to select Off, Low, Medium or High.

5. Press the MENU button to return to the previous menu.
Chapter 7: Using the TV's Features

Blue Stretch
This is the function to make the white color look bluer.

1. Press the MENU button to enter the on-screen menu and then press either the Down or Up button to select the Video sub-menu.
2. Press the OK button to enter the sub-menu and then press either the Down or Up button to select Advanced Video.
3. Press the OK button and then press the Down or Up button to select Blue Stretch.
4. Press the Left or Right button to select On or Off.
5. Press the MENU button to return to the previous menu.

Blue Mute
Screen can be set to blue color when video signal is not existed.

1. Press the MENU button to enter the on-screen menu and then press either the Down or Up button to select the Video sub-menu.
2. Press the OK button to enter the sub-menu and then press either the Down or Up button to select Advanced Video.
3. Press the OK button and then press the Down or Up button to select Blue Mute.
4. Press the Left or Right button to select between On or Off.
5. Press the MENU button to return to the previous menu.
Chapter 7: Using the TV’s Features

Gamma
This feature will allow you to adjust the brightness curve for the display.

1. Press the MENU button to enter the on-screen menu and then press either the Down or Up button to select the Video sub-menu.

2. Press the OK button to enter the sub-menu and then press either the Down or Up button to select Advanced Video.

3. Press the OK button to enter the sub-menu and then press either the Down or Up button to select Gamma.

4. Press the Left or Right button to select between Dark, Middle or Bright.

5. Press the MENU button to return to the previous menu.

Chapter 7
Chapter 7: Using the TV’s Features

Color Temperature

The Color Temperature settings will allow you to adjust the lighting in the display to compliment your viewing preference.

The Cool setting will add more Blues and Greens into the image to give it a “cooler” feeling.

The Warm setting will add more Reds and Yellows into the image to give it a “warmer” feeling.

The Standard setting will be a more natural feeling and will fall between the Cool and Warm settings.

1. Press the MENU button to enter the on-screen menu and then press either the Down or Up button to select the Video sub-menu.

2. Press the OK button to enter the sub-menu and then press either the Down or Up button to select Advanced Video.

3. Press the OK button to enter the sub-menu and then press either the Down or Up button to select and enter into the Color Temperature submenu.

4. Press the OK button and then press the Left or Right button to select between Cool, Standard, Warm or User settings.

5. If you selected the User setting, press the Down or Up button to select desired color option you wish to adjust.

6. Press the OK button and then use the Left or Right button to make appropriate adjustments.

7. Press the MENU button to return to the previous menu.

Note

- To adjust manually Color Temperature on your display, change the Color Temperature Mode to User.
Screen Mode

You can watch the screen in various picture formats. Screen size selection depends on the type of video input.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button in order to select the **Setup** sub-menu.

2. Press the **OK** button and then press the **Down** or **Up** button to select **Screen Mode**.

3. Press the **Left** or **Right** button to select **Auto**, **Normal**, **Letterbox**, **Panorama**, **Zoom** or **Just Scan**.

4. Press the **MENU** button to return to the previous menu.

- **Auto**
  When your set receives the wide screen signal, it will change automatically the picture format that has been sent.

- **Normal**
  This selection is used to fill the entire screen with the image so no black bars appear.

- **Letterbox**
  Following selection will lead you to view a picture with an original 4:3 aspect ratio, with black bars appearing at both the left and right sides.

- **Panorama**
  When your set receives the wide screen signal, when selected it will adjust the picture horizontally, in nonlinear proportion, to fill the entire screen.

- **Zoom**
  When your set receives the wide screen signal, when selected it will adjust the picture horizontally, in nonlinear proportion, to fill the entire screen.

- **Just Scan**
  This mode is 0% overscan mode for 720p, 1080i, 1080p source when input source is HDMI.
Chapter 7: Using the TV's Features

Sound Controls

Adjusting The Sound Controls
The Sound Mode preset selection will allow you to adjust the sound to your listening preference.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Audio** sub-menu.

2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **Sound Mode**.

3. Press the **Left** or **Right** button to select between **Off**, **Rock**, **Techno**, **Pop**, **Live**, **Dance** or **Classic** Modes.

4. Press the **MENU** button to return to the previous menu.
Chapter 7: Using the TV’s Features

Manual Sound Controls
This function allows you to manually adjust the individual audio settings to your preferred levels.

1. Press the \textbf{MENU} button to enter the on-screen menu and then press either the \textbf{Down} or \textbf{Up} button to select the \textbf{Audio} sub-menu.

2. Press the \textbf{OK} button to enter the sub-menu and then press either the \textbf{Down} or \textbf{Up} button to select the desired sound option. (\textbf{Balance, Bass, Treble})

3. Press the \textbf{OK} button to select the sound option that you wish to change and then press either the \textbf{Left} or \textbf{Right} button to make appropriate adjustments.

4. Press the \textbf{MENU} button to return to the previous menu.

- \textbf{Balance}
  Adjusts the left to right sound balance between the built-in speakers.

- \textbf{Bass}
  This adjusts the presence of the lower frequency audio.

- \textbf{Treble}
  This adjusts the presence of the higher frequency audio.
Chapter 7: Using the TV's Features

Sound Surround
Surround sound adds an extra dimension to the depth of the sound.

1. Press the MENU button to enter the on-screen menu and then press either the Down or Up button to select the Audio sub-menu.
2. Press the OK button to enter the sub-menu and then press either the Down or Up button to select Sound Surround.
3. Press the Left or Right button to select between On or Off.
4. Press the MENU button to return to the previous menu.

Stereo/SAP Broadcast Setup
This TV can receive MTS stereo programs and any SAP (Secondary Audio Program) that the station may transmit. The television will automatically switch to Mono sound if the broadcasted channel is transmitted in Mono.

1. Press the MENU button to enter the on-screen menu and then press either the Down or Up button to select the Audio sub-menu.
2. Press the OK button to enter the sub-menu and then press either the Down or Up button to select MTS.
3. Press the Left or Right button to select between Stereo, SAP or Mono.
4. Press the MENU button to return to the previous menu.
Audio Language
Other languages may be available if a digital signal is provided by the broadcasting station.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Audio** sub-menu.
2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **Audio Language**.
3. Press the **Left** or **Right** button to select between **English**, **Español** or **Français**.
4. Press the **MENU** button to return to the previous menu.

Speaker Type
Speaker Type can be turned “off”, “Built-In” or “Bed Speaker” using this setting. Use this feature when connecting external audio equipment to this TV. The Bed Speaker is used for Hospital Model only.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Audio** sub-menu.
2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **Speaker Type**.
3. Press the **Left** or **Right** button to select between **Off**, **Built-In** or **Bed Speaker**.
4. Press the **MENU** button to return to the previous menu.
Chapter 7: Using the TV's Features

Captions

Closed Caption - Analog
The Analog Caption function operates when watching a regular analog channel.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button in order to select the **Setup** sub-menu.

2. Press the **OK** button to enter the submenu and then press either the **Down** or **Up** button in order to select **Caption**.

3. Press the **OK** button and then press the **Down** or **Up** button to select **Analog Closed Caption**.

4. Press the **Left** or **Right** button to select between **Off**, **CC1**, **CC2**, **CC3**, **CC4**, **TEXT1**, **TEXT2**, **TEXT3** or **TEXT4**.

5. Press the **MENU** button to return to the previous menu.

- **Caption**
  The term for the words that scroll across the bottom of the TV screen; usually the audio portion of the program provided for the hearing impaired.

- **TEXT**
  The term for the words that appear in a large black-frame and almost cover the entire screen; usually messages provided by the broadcaster.

**Note**
- If you want to select directly the Closed Captions, press the **CC** button on the remote control.
Chapter 7: Using the TV’s Features

Closed Caption - Digital
The Digital Caption function only operates on digital channels.

1. Press the MENU button to enter the on-screen menu and then press either the Down or Up button in order to select the Setup sub-menu.

2. Press the OK button to enter the submenu and then press either the Down or Up button in order to select Caption.

3. Press the OK button and then press the Down or Up button to select Digital Closed Caption.

4. Press the Left or Right button to select between Off, Service1, Service2, Service3, Service4, Service5 or Service6.

5. Press the MENU button to return to the previous menu.
Chapter 7: Using the TV’s Features

Digital Closed Caption Options
Customize the DTV captions that appear on your screen.

1. Press the MENU button to enter the on-screen menu and then press either the Down or Up button in order to select the Setup sub-menu.

2. Press the OK button to enter the submenu and then press either the Down or Up button in order to select Caption.

3. Press the OK button and then press the Down or Up button to select Digital Caption Style.

4. Press the OK button and then press the Down or Up button to select Caption Style.

5. Press the Left or Right button to select Custom.

6. Press the Down or Up button to select desired caption option you wish to change. (Select between: Font Size, Font Color, Font Opacity, Background Color, Background Opacity, Window Color, Window Opacity)

7. Press the Left or Right button to customize your selected preference.

8. Press the MENU button to return to the previous menu.

- **Font Size**
  Set the size in which the captions will appear in.

- **Font Style**
  Select a typeface for the words.

- **Font Color**
  Set the color in which the captions will appear in.

- **Font Opacity**
  Select the transparency for the captions.

- **Background Color**
  Select a background color for the captions.

- **Background Opacity**
  Select the transparency for the background.

- **Window Color**
  Select a color for the edges.

- **Window Opacity**
  Select the transparency for the edges.

**Note**
- If the Caption Style is selected to “As Broadcaster”, the Caption Options cannot be adjusted.
Chapter 7: Using the TV’s Features

Time Setting

Time Zone Settings
This mode allows you to set the Time Zone for your local area.

1. Press the MENU button to enter the on-screen menu and then press either the Down or Up button in order to select the Setup sub-menu.

2. Press the OK button to enter the submenu and then press either the Down or Up button in order to select Time Setup.

3. Press the OK button and then press the Down or Up button to select Time Zone.

4. Use the Left or Right button to select your viewing area’s time zone. (Select between: Eastern Time, Indiana, Central Time, Mountain Time, Arizona, Pacific Time, Alaska, Hawaii)

5. Press the MENU button to return to the previous menu.
Chapter 7: Using the TV's Features

Auto Time Settings
The Auto Time Setting receives the current time from an available digital channel. The digital channel signal includes information for the current time provided by the broadcasting station.

1. Press the MENU button to enter the on-screen menu and then press either the Down or Up button in order to select the Setup sub-menu.

2. Press the OK button to enter the submenu and then press either the Down or Up button in order to select Time Setup.

3. Press the OK button and then press the Down or Up button to select Time.

4. Press the OK button and then press the Down or Up button to select Auto Synchronization.

5. Press the Left or Right button to switch between On or Off.

6. Press the MENU button to return to the previous menu.

**Note**
- If Auto Synchronization is On, the Date and Time menus cannot be adjusted.
- Set the time manually if the current time is incorrect using the Auto Synchronization function.
Chapter 7: Using the TV’s Features

Manual Time Settings
If the current time setting is wrong when using the Auto Synchronization function, this setting allows you to set the clock manually.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button in order to select the **Setup** sub-menu.

2. Press the **OK** button to enter the submenu and then press either the **Down** or **Up** button in order to select **Time Setup**.

3. Press the **OK** button and then press the **Down** or **Up** button to select **Time**.

4. Press the **OK** button and then press the **Down** or **Up** button to select **Auto Synchronization**.

5. Press the **Left** or **Right** button to turn **Auto Synchronization Off**.

6. Press the **Down** or **Up** button to select **Date** or **Time**.

7. Use the **Left** or **Right** button to select the variable that you want to change and use number buttons to enter the date or time.

8. Press the **MENU** button to return to the previous menu.
Chapter 7: Using the TV's Features

Auto On /Off Time Settings

The timer function will only operate when the current time has been set. This function automatically turns the TV On and Off at the specific time you designate.

1. Press the MENU button to enter the on-screen menu and then press either the Down or Up button in order to select the Setup sub-menu.

2. Press the OK button to enter the submenu and then press either the Down or Up button in order to select Time Setup.

3. Press the OK button and then press the Down or Up button to select Time.

4. Press the OK button and then press the Down or Up button to select Timer.

5. Press the Left or Right button to select On. If Timer is selected to Off, Power On Timer and Power Off Timer menu are cannot be adjusted.

6. Press the Down or Up button to select Power On Timer or Power Off Timer.

7. Press the Left or Right button to move to the desired variable and use number buttons to set time.

8. Press the MENU button to return to the previous menu.
Chapter 7: Using the TV's Features

Sleep Timer
The sleep timer automatically switches the set to standby after the preset time elapses.

1. Press the MENU button to enter the on-screen menu and then press either the Down or Up button in order to select the Setup sub-menu.
2. Press the OK button to enter the submenu and then press either the Down or Up button in order to select Time Setup.
3. Press the OK button and then press the Down or Up button to select Sleep Timer.
4. Press the Left or Right button to select desired sleep time.
   The timer begins to count down from the number of minutes selected and will switch the unit to standby when the time runs out.
5. Press the MENU button to return to the previous menu.

Note
- If you want to select directly select the sleep timer without entering the menus, press the SLEEP button on the remote control.
- Every time you press the button, it will switch between Off, 10, 20, 30, 40, 50, 60, 90 and 120.
Chapter 7: Using the TV’s Features

Reset

Reset Default

This function returns all of the menu selections back to their original factory preset values. This function removes all TV channels from memory. Channels must be scanned for again after resetting to the unit to factory defaults.

1. Press the MENU button to enter the on-screen menu and then press either the Down or Up button in order to select the Setup sub-menu.

2. Press the OK button to enter the submenu and then press either the Down or Up button in order to select Reset Default.

3. Press the OK button and then press the Left or Right button to highlight the OK button.

4. Press the OK button on the remote control to reset all settings.

5. Press the MENU button to return to the previous menu.
Chapter 7: Using the TV's Features

Parental Control

Entering your password
Parental Control can be used to block specific channels, ratings and other viewing sources.

The default password of 0-0-0-0 is required to gain access to this menu.

1. Press the MENU button to enter the on-screen menu and then press either the Down or Up button in order to select the Parental sub-menu.
2. Press the OK button and then enter the default password as requested.
3. The TV is set up with the initial password of "0-0-0-0".

Set Password
This option will allow you to input a new password of your choice.

1. After entering the parental sub-menu, press the Down or Up button to select Change Password.
2. Press the OK button and then select any 4 digits for your new password and enter them in the New Password section.
3. As soon as the 4 digits are entered, re-enter the same 4 digits on the Confirm Password to finalize your selection.
4. Your new password has now been memorized.
5. Press the MENU button to return to the previous menu.

Note
- Write down your new password and keep it somewhere safe for the case of forgetting it in the future.
Chapter 7: Using the TV’s Features

Ratings - Enable / Disable
Enables or disables a parental blocking scheme.

1. After entering the Parental sub-menu, press the Down or Up button to choose Program Block.
2. Press the OK button and then press the Down or Up button to select Rating Enable.
3. Press the Left or Right button to select On or Off. When you select On, the Program Block options are enabled.
4. Press the MENU button to return to the previous menu or scroll down to edit a Program Block option.
Chapter 7: Using the TV’s Features

TV Ratings for USA
This rating system has been established to help you monitor and block the types of programs viewed on TV. Ratings with a lock next to them will be blocked from being viewed.

1. After entering the Parental sub-menu, press the Down or Up button to choose Program Block.

2. Press the OK button and then press either the Down or Up button to select U.S.TV Ratings.

3. Press the OK button to enter the sub-menu.

4. Use the Down, Up, Left or Right buttons to highlight the selection you wish to block and press the OK button to block that selection. (Note: See rating descriptions on the next page.)

5. Press the MENU button to return to the previous menu.
Chapter 7: Using the TV’s Features

**TV (FCC) Age Categories**

- **TV-MA**  
  Mature audiences only.  
  This program may contain mature themes, profane language, graphic violence and explicit sexual content.

- **TV-14**  
  Parents strongly cautioned.  
  This program may contain sophisticated themes, sexual content, strong language and more intense violence.

- **TV-PG**  
  Parental guidance suggested.  
  The program may contain infrequent coarse language, limited violence, some suggestive sexual dialog and situations.

- **TV-G**  
  General audience.  
  This contains little or no violence, no strong language, and little or no sexual dialog or situations.

- **TV-Y7**  
  Directed for older children.  
  Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of seven.

- **TV-Y**  
  All children.  
  The themes and elements in this program are specifically designed for a very young audience, including children from ages two – six.

**TV (FCC) Content Sub-Categories:**

- **D:** Dialog...sexual innuendo.  
- **L:** Offensive language.  
- **S:** Sexual Situation.  
- **V:** Violence.  
- **FV:** Fantasy or cartoon violence.
Chapter 7: Using the TV's Features

Movie Ratings
This rating system has been established to help you monitor and block the types of movies viewed. These ratings apply to movies broadcasted on TV and allows you to select which ratings you want blocked.

1. After entering the Parental sub-menu, press the Down or Up button to choose Program Block.
2. Press the OK button and then press either the Down or Up button to select U.S. Movie Ratings.
3. Press the OK button to enter the submenu.
4. Press the Down or Up buttons to choose the rating you wish to block and press the OK button to block that selection. (See rating descriptions below)
5. Press the MENU button to return to the previous menu.

The MPAA Rating System (Movies)
• G
  General Audience.
• PG
  Parental guidance suggested.
• PG-13
  Parents strongly cautioned.
• R
  Restricted.
• NC-17
  No one 17 and under admitted.
• X
  Adults only.

Note
- If you block PG-13, G and PG movies will be available, PG-13, R, NC-17 and X will be blocked.
Chapter 7: Using the TV’s Features

English TV Ratings for Canada

This rating system has been established to help you monitor and block the types of programs viewed on TV. Ratings with a lock next to them will be blocked from being viewed.

1. After entering the Parental sub-menu, press the Down or Up button to choose Program Block.
2. Press the OK button and then press the Down or Up button to select Canadian English Ratings.
3. Press the OK button to enter the sub-menu.
4. Press the Down or Up buttons to choose the selection you wish to block and press the OK button on the remote to block it. (See rating descriptions below)
5. Press the MENU button to return to the previous menu.

**Canadian English Ratings**

- **C**
  - Children
- **C8+**
  - Children eight years and older
- **G**
  - General programming, suitable for all audiences
- **PG**
  - Parental Guidance
- **14+**
  - Viewers 14 years and older
- **18+**
  - Adult programming
Chapter 7: Using the TV's Features

French TV Ratings for Canada
This rating system has been established to help you monitor and block the types of programs viewed on TV. Ratings with a lock next to them will be blocked from being viewed.

1. After entering the Parental sub-menu, press the Down or Up button to choose Program Block.
2. Press the OK button and then press the Down or Up button to select Canadian French Ratings.
3. Press the OK button to enter the sub-menu.
4. Press the Down or Up buttons to choose the selection you wish to block and press the OK button on the remote to block it. (See rating descriptions below)
5. Press the MENU button to return to the previous menu.

Canadian French Ratings

- G
  - General
- 8 ans+
  - General-Not convenient for little children
- 13 ans+
  - Not convenient for children of 13 years and younger
- 16 ans+
  - Not convenient for children of 16 years and younger
- 18 ans+
  - This programs is only for adult
Chapter 7: Using the TV's Features

Downloadable Rating
Your TV's OSD (On Screen Display) may differ slightly from what is shown in this manual.

1. After entering the Parental sub-menu, press the Down or Up button to choose Program Block.
2. Press the OK button and then press the Down or Up button to select Open V-Chip.
3. Press the OK button twice.
4. Press the Down or Up buttons to choose the menu options for Open V-Chip.
5. Press the OK button to make your selection.
6. Press the MENU button to return to the previous menu.

Note
- This function may become available in the future and will be available only for digital channel signal.
- This function operates only when TV has received Region5 Rating data.
Chapter 7: Using the TV’s Features

Block Unrated
Block Unrated can be used to block unrated channels, ratings and other viewing sources.

1. After entering the Parental sub-menu, press the Down or Up button to choose Program Block.
2. Press the OK button and then press the Down or Up button to select Block Unrated.
3. Press the Left or Right button to select On or Off.
4. Press the MENU button to return to the previous menu.

Clean All
This function cleans and resets all current parental block settings.

1. After entering the Parental sub-menu, press the Down or Up button to choose Clean All.
2. Press the OK button on the remote control to select Clean All and then press the Left or Right button to select OK button.
3. Press the OK button to clean and reset the Program Block menu options.
4. Press the MENU button to return to the previous menu.
Chapter 7: Using the TV's Features

Setting the PC Mode

Automatic Screen Adjustment

This function automatically adjusts the screen position, clock, phase and scale in pc mode. The displayed image will disappear for a few seconds while the auto configuration is in progress. If the result of the automatic adjustment is not correct, you can manually adjust the settings to fit your viewing preference.

1. Press the MENU button to enter the on-screen menu and then press either the Down or Up button to select the Video sub-menu.

2. Press the OK button to enter the sub-menu and then press either the Down or Up button to select VGA.

3. Press the OK button and then use the Down or Up button to select Auto Adjust.

4. Press the OK button to start the auto adjustment.

5. If the result of the automatic adjustment is not correct, you can manually adjust the settings to fit your viewing preference. (See the next page for manual adjustment settings.)

Note

- Select the VGA mode by pressing either the INPUT button.
Chapter 7: Using the TV’s Features

Manual Screen Adjustment
If the result of the automatic adjustment is not correct, you can manually adjust the settings to fit your viewing preference.

1. Press the Menu button to enter the on-screen menu and then press either the Down or Up button to select the Video sub-menu.

2. Press the OK button to enter the sub-menu and then press either the Down or Up button to select VGA.

3. Press the OK button and then press the Down or Up button to select video option you wish to change.

4. Press the OK button and then press the Left or Right button to make appropriate adjustments.

5. Press the Menu button to return to the previous menu.

- **Horizontal Position**
  This function is to adjust horizontal position of screen.

- **Vertical Position**
  This function is to adjust vertical position of screen.

- **Phase**
  This function allows you to remove any horizontal noise and clear or sharpen the image of characters.

- **Clock**
  This function is to minimize any vertical bars or stripes visible on the screen background.
  And the horizontal screen size will also change.
Chapter 7: Using the TV’s Features

USB Functions

The television is capable of displaying photo and music files. To change the USB settings press the CC key on the remote or front panel to enter the MMP menu.

USB Settings

When a directory is displayed:
Press the CC key when the directory is displayed to change the file settings. Media type menu selects between Photo or Music files.

When a picture is displayed:
Press the CC key when a picture is displayed to change the picture settings.

When music is playing:
Press the CC button when music is playing to change the music settings.
# Chapter 7: Using the TV's Features

## Specifications

<table>
<thead>
<tr>
<th>Models</th>
<th>J22CE820</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimension</strong> (Width x Height x Depth)</td>
<td>534.8mm x 358.9mm x 47.5mm 21.06 x 14.13 x 1.87 inches</td>
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<td><strong>Consumption (Standby)</strong></td>
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<td><strong>Audio Output</strong></td>
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<td><strong>Contrast Ratio</strong></td>
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### Accessories
- Power Cord
- Owner's Manual
- Master and Guest Remote (Optional)
- Composite Gender Cable
- Component Gender Cable

### External Port
- AC IN
- HDMI/DVI IN1
- HDMI IN2
- AUDIO IN (RGB / DVI)
- RGB IN(PI)
- COMPONENT IN
- AV IN 1
- S-VIDEO IN
- AUDIO OUT
- SERVICE(RS232)
- ANTENNA / CABLE IN
- AV IN 2
- USB IN

*The Specification shown above may be changed without notice.*
### Chapter 7: Using the TV’s Features

<table>
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<th>Models</th>
<th>J26CE820</th>
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<tr>
<td><strong>Dimension</strong></td>
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<td><strong>Contrast Ratio</strong></td>
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- **Accessories**
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  - Component Gender Cable

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  - AC IN
  - HDMI/DVI IN1
  - HDMI IN2
  - AUDIO IN (RGB / DVI)
  - RGB IN(PC)
  - COMPONENT IN
  - AV IN 1
  - S-VIDEO IN
  - AUDIO OUT
  - SERVICE(RS232)
  - ANTENNA / CABLE IN
  - AV IN 2
  - USB IN

*The Specification shown above may be changed without notice.*
Chapter 7: Using the TV's Features

<table>
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<th>J32CE720</th>
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<tr>
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| Accessories | • Power Cord  
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• AV IN 2  
• USB IN |

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## Chapter 7: Using the TV's Features

<table>
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<tr>
<td>(kg / lbs)</td>
<td>13.2 kg / 29.10 lbs</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Brightness</td>
<td></td>
</tr>
<tr>
<td></td>
<td>300 cd/m²</td>
</tr>
<tr>
<td>Panel Resolution</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1920 (H) x 1080 (V)</td>
</tr>
<tr>
<td>Power Rating</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AC115V~ 60Hz</td>
</tr>
<tr>
<td>Consumption</td>
<td></td>
</tr>
<tr>
<td></td>
<td>80W</td>
</tr>
<tr>
<td>Consumption (Standby)</td>
<td>Under 0.5W</td>
</tr>
<tr>
<td>Audio Output</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5W + 5W</td>
</tr>
<tr>
<td>Contrast Ratio</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10,000:1</td>
</tr>
<tr>
<td>Accessories</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Power Cord</td>
</tr>
<tr>
<td></td>
<td>• Owner's Manual</td>
</tr>
<tr>
<td></td>
<td>• Master and Guest Remote (Optional)</td>
</tr>
<tr>
<td></td>
<td>• Composite Gender Cable</td>
</tr>
<tr>
<td></td>
<td>• Component Gender Cable</td>
</tr>
<tr>
<td>External Port</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• AC IN</td>
</tr>
<tr>
<td></td>
<td>• HDMI/DVI IN1</td>
</tr>
<tr>
<td></td>
<td>• HDMI IN2</td>
</tr>
<tr>
<td></td>
<td>• AUDIO IN (RGB / DVI)</td>
</tr>
<tr>
<td></td>
<td>• RGB IN(PCR)</td>
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<tr>
<td></td>
<td>• COMPONENT IN</td>
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<tr>
<td></td>
<td>• AV IN 1</td>
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<tr>
<td></td>
<td>• S-VIDEO IN</td>
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<tr>
<td></td>
<td>• AUDIO OUT</td>
</tr>
<tr>
<td></td>
<td>• SERVICE(RS232)</td>
</tr>
<tr>
<td></td>
<td>• ANTENNA / CABLE IN</td>
</tr>
<tr>
<td></td>
<td>• AV IN 2</td>
</tr>
<tr>
<td></td>
<td>• USB IN</td>
</tr>
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</table>

*The Specification shown above may be changed without notice.*
### Chapter 8: Other Information

#### Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Check Point</th>
</tr>
</thead>
</table>
| No picture on screen.                     | • Check whether the set is turned on.  
• Power cord inserted into wall outlet?  
• Test if there is power coming from the wall outlet by plugging in another product into the wall outlet where the set’s power cord was plugged in. |
| The remote control doesn’t work.          | • Ensure remote is enabled in Commercial Interface menu.  
• Ensure TV1/TV2/TV3 settings of TV match the remote.                                                                                                                                                     |
| Picture appears slowly, after switching on.| • This is normal as the image is muted during the start up process of the set. Please contact your service center, if the picture has not appeared after five minutes.                                             |
| No or Poor color                           | • Select color in the Picture menu and press the **Left** or **Right** button.                                                                                                                                |
| Horizontal/Vertical bars or picture shaking| • Check for local interference such as a nearby electrical appliance or power tool.                                                                                                                           |
| Unusual sound from inside the set.        | • A change in ambient humidity or temperature may result in an unusual noise at the time of switching off or on of the set and does not indicate a fault with the set.    |