

Hospital Grade HD LCD Television Users Manual

PDI-P19LCDC

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**Better Solutions Are
Within Reach®**

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WARNING



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



This symbol is intended to alert the user of 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.



This symbol is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

NOTE TO CABLE TV INSTALLER

This reminder is provided to call the cable TV systems installer's attention to Article 820-40 of the National Electrical Code. The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

MAINTENANCE AND SERVICING

Never remove the back cover of the TV; this can expose you to high voltage and other hazards. If the TV does not operate properly, unplug it and call an authorized service center or PDI .

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.



RAIN AND MOISTURE

WARNING: To avoid the hazards of fire or electrical shock, DO NOT expose this television to rain or moisture.

OXYGEN ENVIRONMENT

WARNING: Do not use in any oxygen tent or oxygen chamber. Such use may cause a fire hazard.

WET LOCATION

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

OVERHEAD FALLING HAZARD

WARNING: To prevent injury, this apparatus must be securely attached to the wall in accordance with the installation instructions. TVs can pose a striking hazard when mounted at an elevated position. **Use only PDI mounting brackets and appropriate hardware to assure TV will not fall from the mounted position. Failure to do so may cause injury or death.**

WARNING

DISCONNECTING DEVICE FROM MAINS

Main plug is the disconnecting device. The plug must remain readily operable.

GROUND CONNECTION

The apparatus with Class I construction shall be connected to a mains socket outlet with a protective earthing connection.

SERVICE INSTRUCTIONS

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 contained in the operating instructions unless you are qualified to do so.

PRODUCT MODIFICATION

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

Notice for the USA FCC Part 15:

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 in a residential installation.

This equipment generates, uses and can radiate radio frequency energy. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of 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 technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received, including interference that may cause undesired operation.

CAUTION: To comply with the limits of the Class B digital device, pursuant to Part 15 of the FCC Rules, the device is comply with Class B limits. All peripherals must be shielded and grounded. Operation with non-certified peripherals or non-shielded cables may results in interference to radio or reception.

MODIFICATION: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the device.

WARNING

Underwriters Laboratories

The model PDI-P19LCDC Hospital Grade LCD TV is a specialized LCD television. This TV is intended for entertainment and educational purposes for use in a hospital, a nursing home, a medical-care center, or a similar health care facility. The antenna or cable system connected to an apparatus is to be grounded in accordance with the National Electrical Code, ANSI/NFPA 70.



This device is safety tested and listed by the Underwriters Laboratories as a product suitable for use in health care facilities in both the United States and Canada.

Important Safety Instructions

Important safeguards for you and your new product

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 are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, 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. *Use only PDI mounts and appropriate hardware. Failure to do so could cause the set to fall and subsequent injury or death.*



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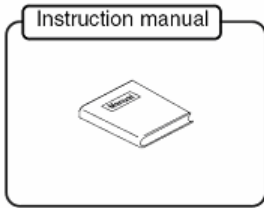
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Supplied Accessories

Make sure the following accessories are provided with product.



Optional Accessories

External Functional Modules

This TV may have come equipped with optional removable functional modules, such as DVD and IPTV. The television is designed to allow simultaneous use of two different modules; the functional modules can be installed in three different positions.

Remote Control PD108-427

A remote control is required to perform all TV setup adjustments including programming channels and a password is needed to enter the setup mode. The remote is **NOT** included with the TV and must be ordered separately – one remote is capable of programming an entire hospital of televisions. Please order remote control part number PD108-427.

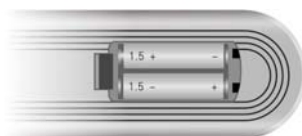


Battery Installation

1. Softly push the back cover to open the battery compartment.
3. Replace the battery compartment cover.



2. Insert two batteries (1.5V, size AAA), ensuring the polarity matches the marks inside the compartment.



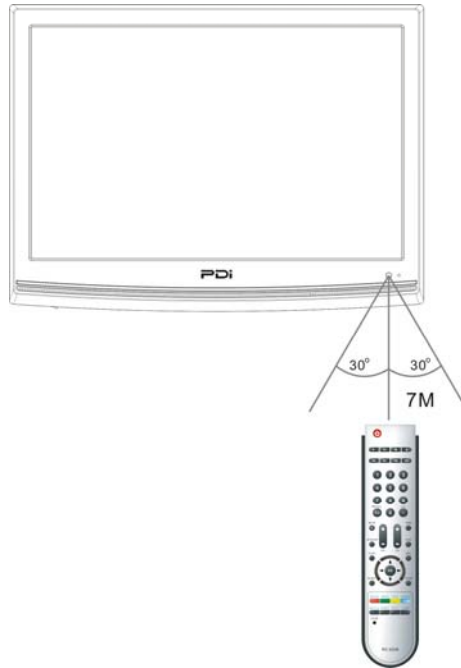
Note:

- ❑ Install two high-quality 1.5V "AAA" alkaline batteries. Don't mix old batteries with new batteries.
- ❑ Remove batteries when you won't use the remote controller for long time. Liquid leakage from old batteries may cause operation failure.

Optional Accessories

Using remote controller

Point the remote control unit from no more than about 7 meters (22 feet) from the television and within about 60 degrees of the front of the unit.



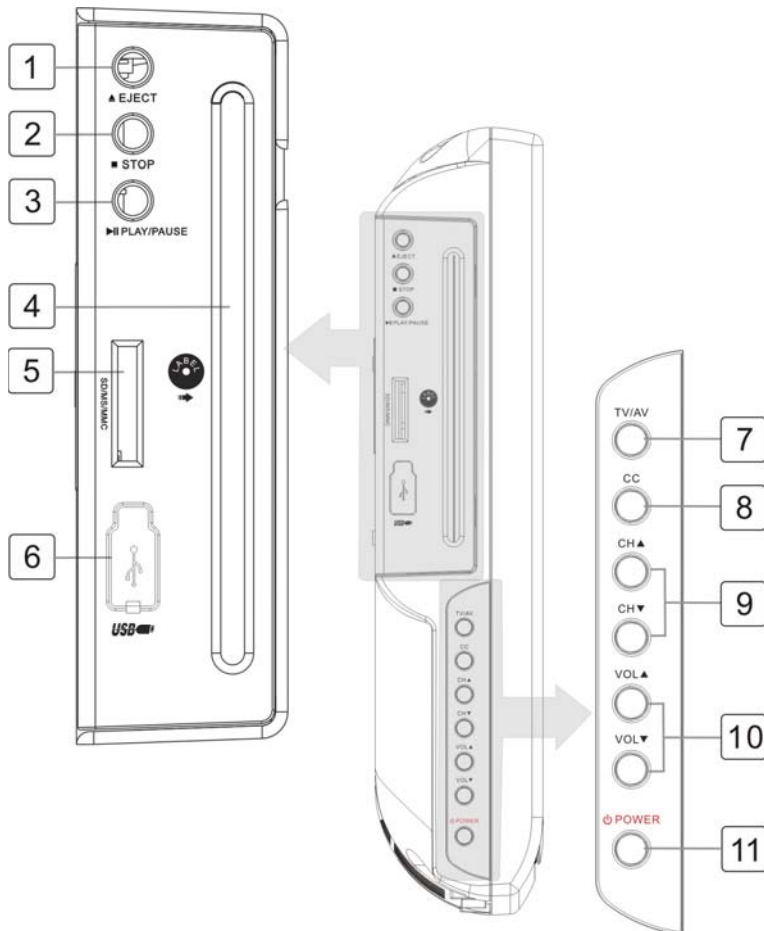
- ❑ The operating distance may vary depending on room illumination.

Notes for using remote controller

- ❑ Make sure there are no objects between the remote controller and its sensor.
- ❑ Don't place the remote control near a heater or in damp place. Strong impact to the remote control may cause operation failure.
- ❑ Signal from the remote control may be disturbed by sun light or other bright light. In this case, darken the room or move the TV.

Controls

Left Side Panel



1. ▲ EJECT button

Eject the disc in DVD mode.
Adjusts the volume. Adjusts menu settings.

2. ■ STOP button

Stop the disc playback in DVD mode.

3. ►|| PLAY/PAUSE button

Start to play the disc in DVD mode.

4. DISC Slot

Insert the disc.

5. SD/MS/MMC card slot

Insert the SD/MS/MMC card.

6. USB Port

Insert the USB device.

7. TV/AV button

Selects the video mode.

8. CC button

Set the caption function.

9. CH ▲/▼ buttons

Selects a program or a menu item.

Controls

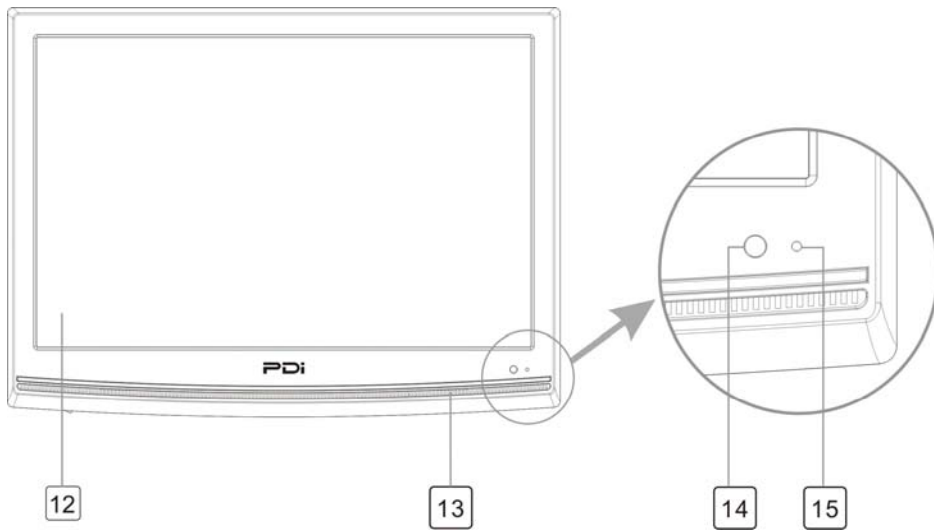
10. VOL ▲/▼ buttons

Adjusts the volume. Adjusts menu settings.

11. POWER button

Switches TV set on or off.

Front Panel



12. Color TFT screen

13. Speaker

14. Remote Sensor

Accepts the IR signal of remote controller.

15. Power Indicator

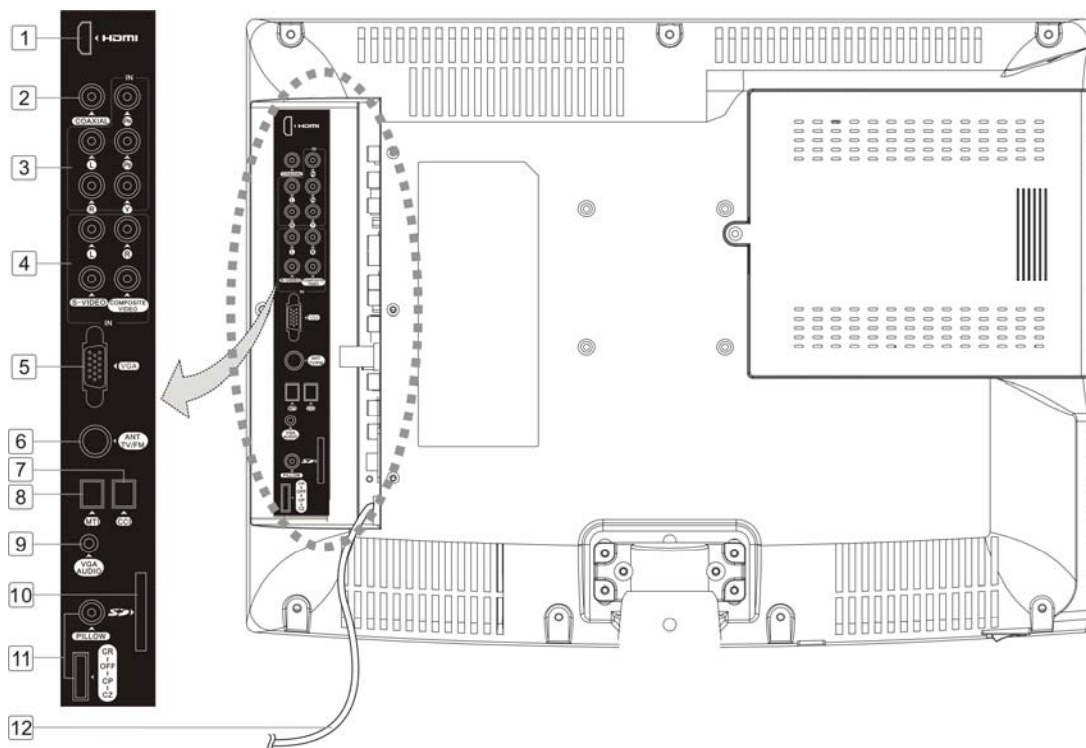
Illuminates in red when the TV is off.

Illuminates in green when the TV is switched on.

Controls

Rear Panel

Open the back cover on the left side of the unit's rear panel and all the jacks will appear, as shown on the figure below:



1. HDMI Jack

Connection for HDMI device.

2. COAXIAL OUT

Provides a digital audio output signal for connection to an external digital audio device.

3. COMPONENT IN

Connect the COMPONENT audio/video output sockets of the DVD to the COMPONENT audio/video input sockets of the set.

4. COMPOSITE/S-VIDEO IN

Connect the Video outputs of external equipment to this input.

Connect the output of an S-VIDEO VCR to the S-VIDEO input.

Connect the audio cable from the external equipment or S-VIDEO VCR to the L & R IN of the set.

5. VGA IN

Connection to the video output jack on your PC.

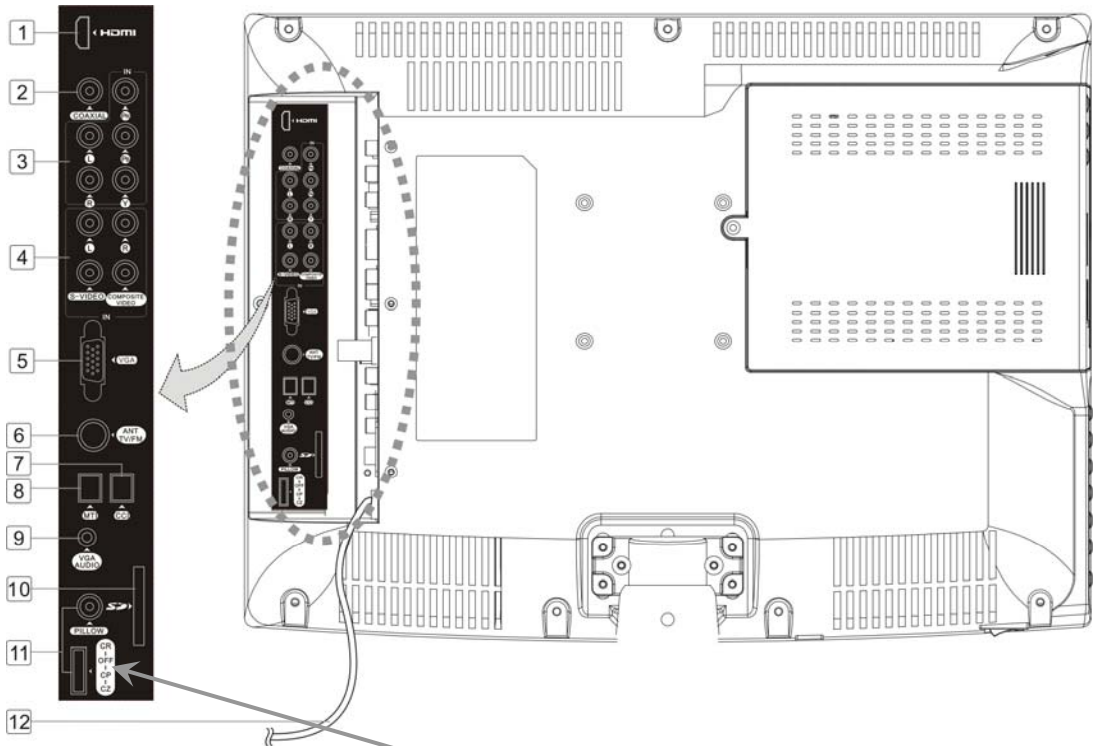
6. ANT TV/FM Jack

Connection to TV or FM antenna.

Controls

Rear Panel

Open the back cover on the left side of the unit's rear panel and all the jacks will appear, as shown on the figure below:



7. **CCI**
Communication port.
8. **MTI**
Connect to MTI device.
Note: CCI and MTI can not be connected to the external public network, and can be used by the technician only.
9. **VGA AUDIO IN**
Connect the audio cable from the PC to the
11. **PILLLOW**
Pillow speaker port.
Use the switch to select correct voltage.
CZ: Zenith Compatible (+14V)
CP: Philips Compatible (+5V)
CR: RCA Compatible (-5V)
Off: Pillow port disable (0V)
12. **Power Supply Cord**

! CAUTION !

Moving this switch changes the voltage supplied to the pillow speaker.

Make sure it is set correctly *BEFORE* plugging in the pillow speaker jumper cable.

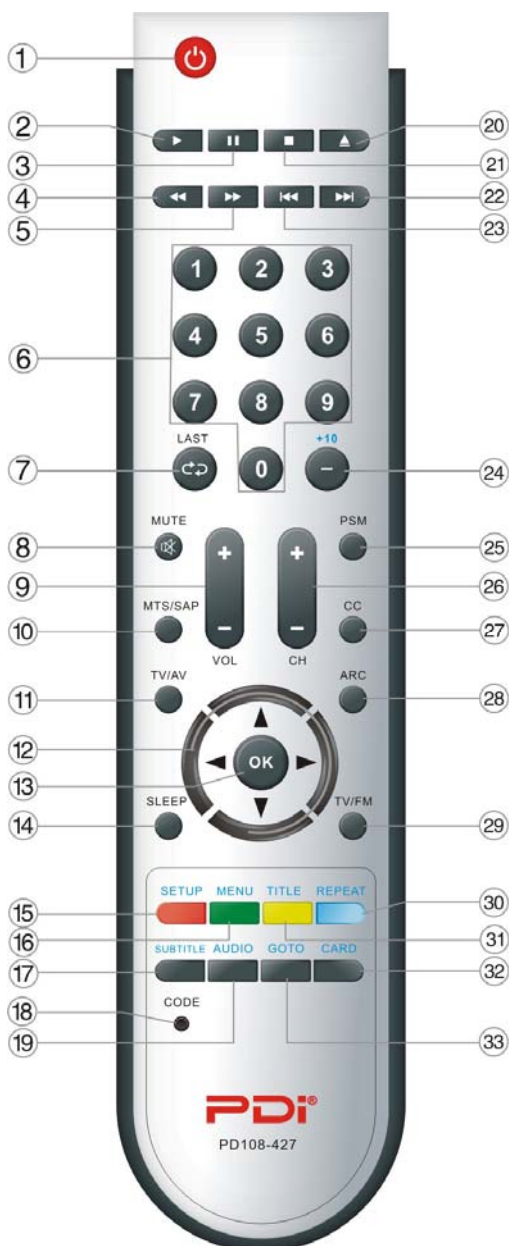
Failure to do so **WILL RESULT IN THE PILLLOW SPEAKER BEING OVERDRIVEN AND POSSIBLE DAMAGE TO THE PILLLOW SPEAKER.**

Controls

The remote control (PD108-427) is also performed all setup operations for the television and a password is needed to enter the setup menu. The remote is **NOT** included with the TV and must be ordered separately – one remote is capable of programming an entire hospital of televisions.

Remote Control

Before you use the remote controller, please install the batteries.



1. **POWER button**
Turns the TV on or off.
2. **▶ PLAY button**
Starts to play the disc in DVD mode.
3. **⏸ PAUSE button**
Pause the playback or start step by step playback in DVD mode.
4. **◀◀ button**
Activate fast backward playback during disk playback in DVD mode.
5. **▶▶ button**
Activate fast forward playback during disk playback in DVD mode.
6. **0~9 Number buttons**
Selects numbers.
7. **LAST button**
Returns to the previously viewed channel.
8. **MUTE button**
Turns the sound on or off.
9. **VOL +/- button**
Adjust the sound level or adjusts menu settings.
10. **MTS/SAP button**
Adjust the audio mode for either **SAP**, **Mono**, or **Stereo**.
11. **TV/AV button**
Selects programmed external inputs.
12. **Direction buttons (▲▼◀▶)**
Selects a menu item or adjusts menu settings.

Controls

- 13. OK button**
Confirms the current selection.
- 14. SLEEP button**
Sets the sleep timer.
- 15. SETUP button**
Displays the main menu.
Exit current OSD menu.
- 16. MENU button**
Displays the disc menu in DVD mode.
- 17. SUBTITLE button**
Selects a desired subtitle language if the disc contains multi-subtitle languages during disc playback in DVD mode.
- 18. CODE button**
The remote offers independent Bed A or Bed B selectable codes and independent control of a single television in a two television room.
Press this button for about 3 seconds to select Bed A or Bed B.
- 19. AUDIO button**
Selects a desired audio language if the disc contains multi-audio languages during disc playback in DVD mode.
- 20. EJECT button**
Ejects the disc in DVD mode.
- 21. ■ STOP button**
Stops the disc playback.
- 22. ►► button**
Press to go to the next chapter/track during disc playback.
- 23. ◀◀ button**
During disc playback, press once to go to the beginning of current chapter/track; press twice repeatedly to go to the previous chapter/track.
- 24. +10 button**
In TV mode, press to select DTV (Digital TV) channels.
For example, to select channel '54-3', press '54', then press this button and '3'.
In DVD mode, press to select numbers greater than 9.
- 25. PSM button**
Recalls your preferred picture setting.
- 26. CH +/- button**
Selects next channel or a menu item.
- 27. CC button**
Sets the caption function.
- 28. ARC button**
Changes the aspect ratio.
Repeatedly press the ARC button to select your desired picture format.
- 29. TV/FM button**
Selects either TV or FM mode directly.
- 30. REPEAT button**
Press to repeat a chapter or title in DVD mode.
- 31. TITLE button**
Press to enter or exit the title menu of the disc during disc playback in DVD mode.
- 32. CARD button**
In DVD mode, press to shift among disc playback, USB playback and CARD playback mode when an external USB device or card is connected.
- 33. GOTO button**
Press to access or exit the search menu in DVD mode.

Installation

LOCATION GUIDELINES

The model PDI-P19LCDC Hospital Grade LCD TV is a specialized LCD television. This TV is intended for entertainment and educational purposes for use in a hospital, a nursing home, a medical-care center, or a similar health-care facility in which installation is limited to a non-hazardous area in accordance with the National Electrical Code, ANSI/NFPA 70. The PDI-P19LCDC is designed for mounting to PDi manufactured mounts. Installation of the TV on any other mount is not recommended.



WARNING: The TV's VESA mounting holes are designed for M4 metric screws only. Use of a non-PDi approved mount or SAE hardware could result in a condition where the TV could unexpectedly fall and cause injury or death.

The PDI-P19LCDC mounts at the foot of a patient's bed with the supplied bracket. Select a location that is near an AC wall outlet and that does not expose the TV to bright room lights or sunlight if possible. The LCD TV also requires connection of both CATV cable signal and across-room wiring for the pillow speaker.

OSHPD (State of California Only)

The combined weight of the PDI-P19LCDC TV and PDI wall mount totals less than 20 pounds. At the time of this writing, the involvement of a written, submitted, reviewed, and approved plan by OSHPD is not required to install the PDI-P19LCDC TV in the state of California.

CABLE SYSTEM GROUNDING

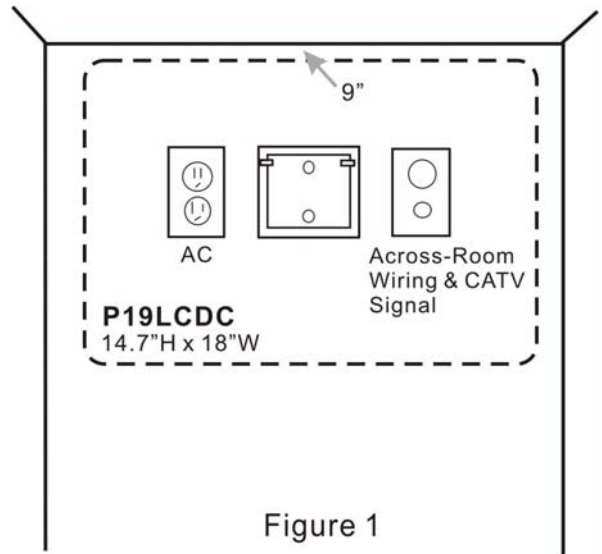
The coax cable system connected to the PDI-P19LCDC TV should be grounded in accordance with the National Electrical Code, ANSI/NFPA 70. The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

Wall Mounting on Bracket

1. Refer to Figure 1. Select a location on the wall approximately 9 inches below the ceiling.

NOTE: Do not locate AC, Across-Room Wiring, and CATV Signal outlets below the Wall Bracket's location as it will cause clearance issues and interfere with the TV's cabinet when mounted to the bracket.

Position the Wall Bracket and locate two mounting holes. Secure the bracket to the wall (mounting hardware is not included).



2. Refer to Figure 2. Position the Back Mount on the LCD TV cabinet. Attach with four M6 screws provided.
3. Mate the Back Mount to the Wall Bracket making sure the pivot pins are retained in the "U" shaped slot. Using the pilfer security driver packed with the hardware, secure with two 10x32 pilfer screws.
4. Connect the AC line cord, Pillow Speaker Jumper Cable, and CATV Coax Cable.
5. The TV's tilt can be adjusted by loosening both Pilfer Screws, adjusting tilt, and then tighten.

Wall Mounting on Bracket

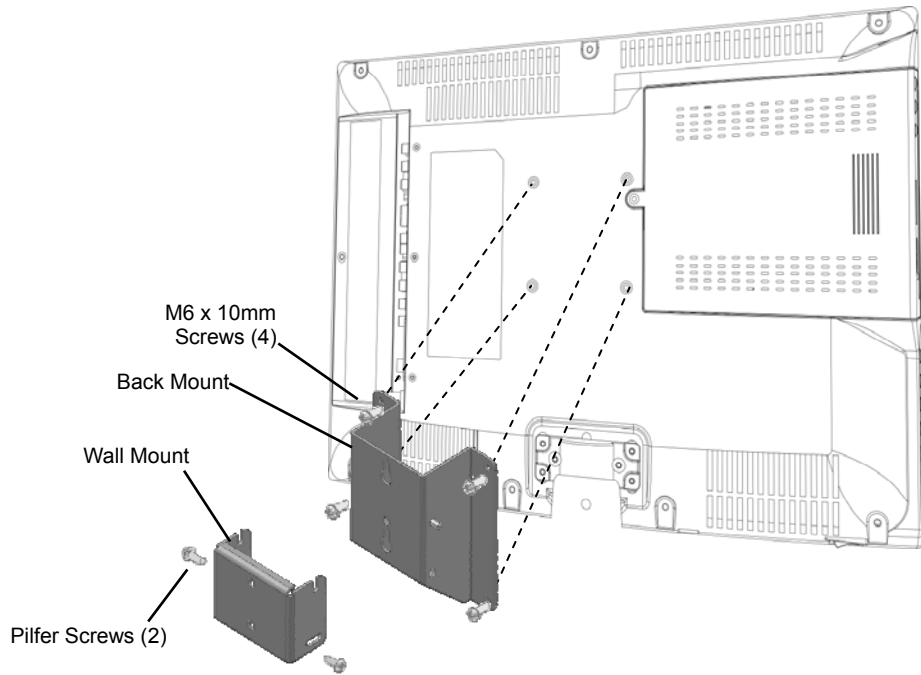


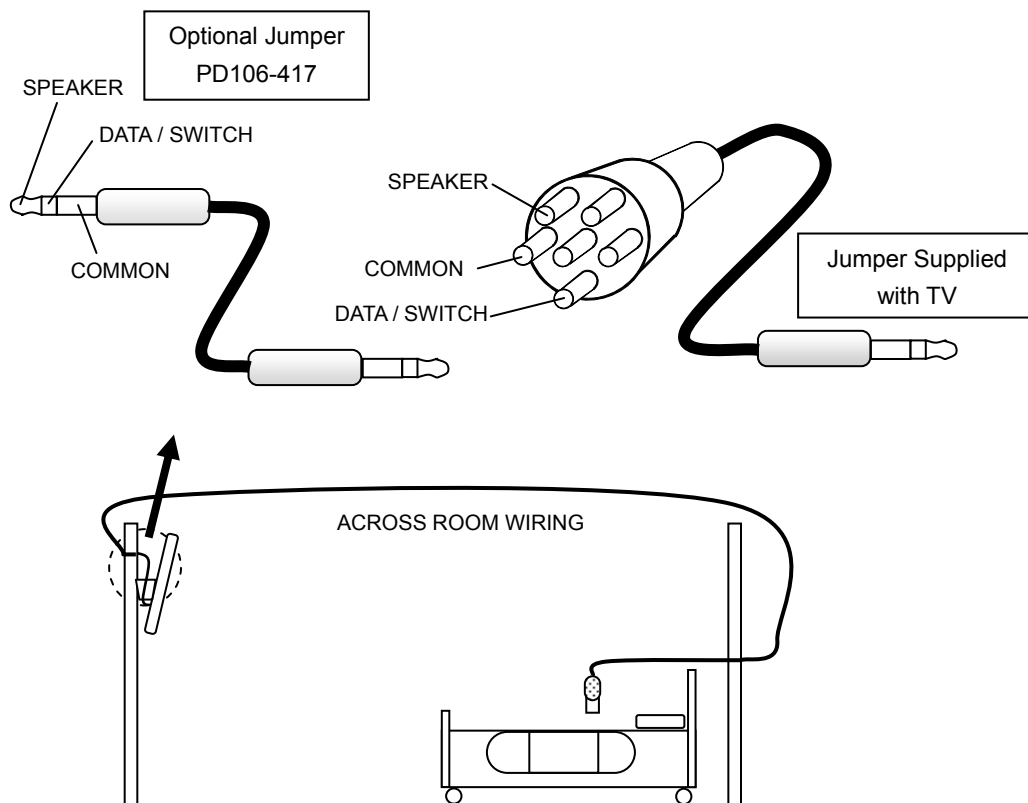
Figure 2

Across-Room Wiring

A ¼" stereo style pillow speaker (pendant control) jack is located on the TV's connector panel on the backside. This TV is designed to work with either a digital pillow speaker that generates digital style control codes or a single-button analog (switch-style) pillow speaker. A rear panel mounted switch allows use of different brands of pillow speakers and supports the major brands; Zenith, Philips, and RCA pillow speakers. Please refer to the "Pillow Speaker" section elsewhere in this manual for details.



WARNING: DO NOT connect the pillow speaker circuit Common to earth ground. Grounding of the Common will defeat the isolation circuitry of the television and possibly expose the patient to harmful shock currents should a wiring fault occur.



External Functional Module

This TV may have come equipped with an optional removable functional module. The television is designed to allow simultaneous use of two different modules; the functional modules can be installed in three different positions. Please follow the procedures below to remove or install the functional modules.

Notes:

Before removing or installing the functional module, ensure that the television is unplugged and turned off.

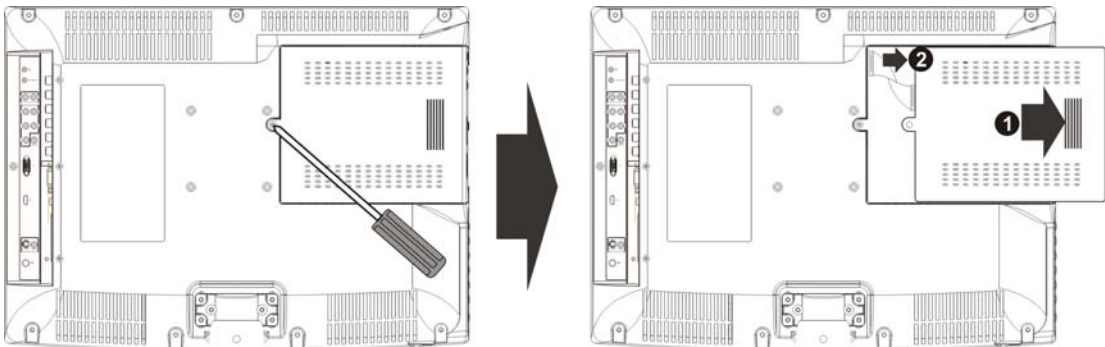
Functional Module removal:

Refer to the illustration below and follow the procedures below to remove the functional module from the TV.

Step 1: Loosen the screw on the functional module.

Step 2: Carefully slide the functional module along the rails and unplug the connecting cord from the LCD TV.

Step 3: Slide the functional module along the rails to fully remove the module.



Functional Module installation:

There are three different positions for installing the functional module and two slots for connecting the MGI connecting cord. Select one proper position for installing:

1. Plug the connecting cord into the functional module.
2. Carefully slide the module into the desired position and lock the module with one screw.

Connections

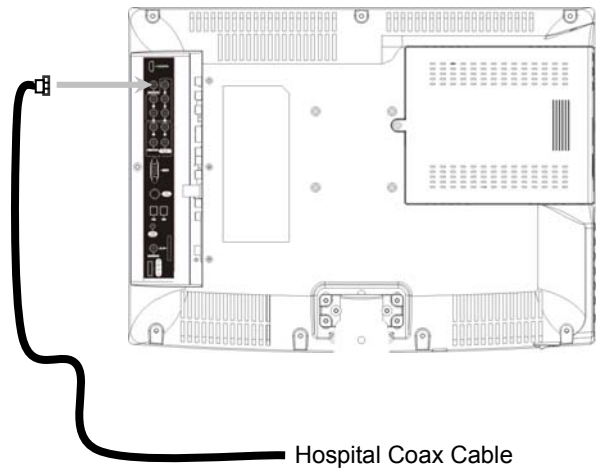
- Do not connect the power cord until all other connections have been made.
- Ensure that you observe and correctly connect colored cables when connecting audio and video cables.

Antenna “ANT” Connection

An “F” style jack is located on the TV’s connector panel



CAUTION: Some hospital cable systems provide power voltage on the coaxial cable. This TV is NOT designed to be powered via a coaxial cable. Do not connect to a powered coaxial cable. Damage will result to the TV.



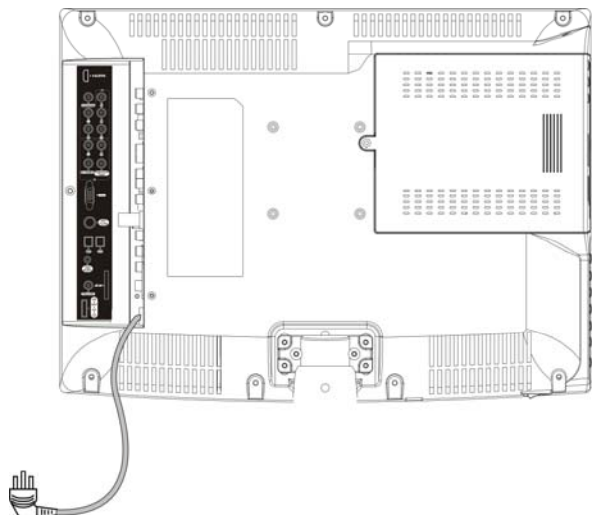
AC POWER

A right-angled AC power cord 1 meter in length is supplied with each TV.

Select a location that is near an AC wall outlet and that does not expose the TV to bright room lights or sunlight if possible. Connect the AC power cord to a powered outlet.

CABLE ROUTING

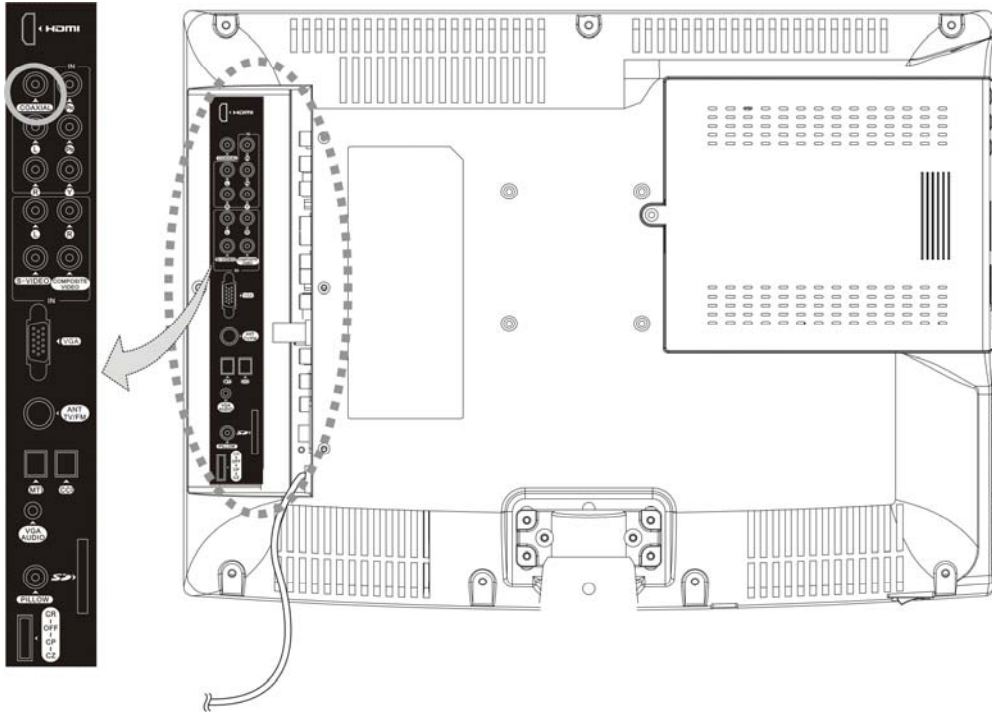
Route all cables through the opening located at the bottom of the cabinet.



Connections

COAXIAL OUT

Provides demodulate audio from the TV's tuner for recording to an external audio amplifier.

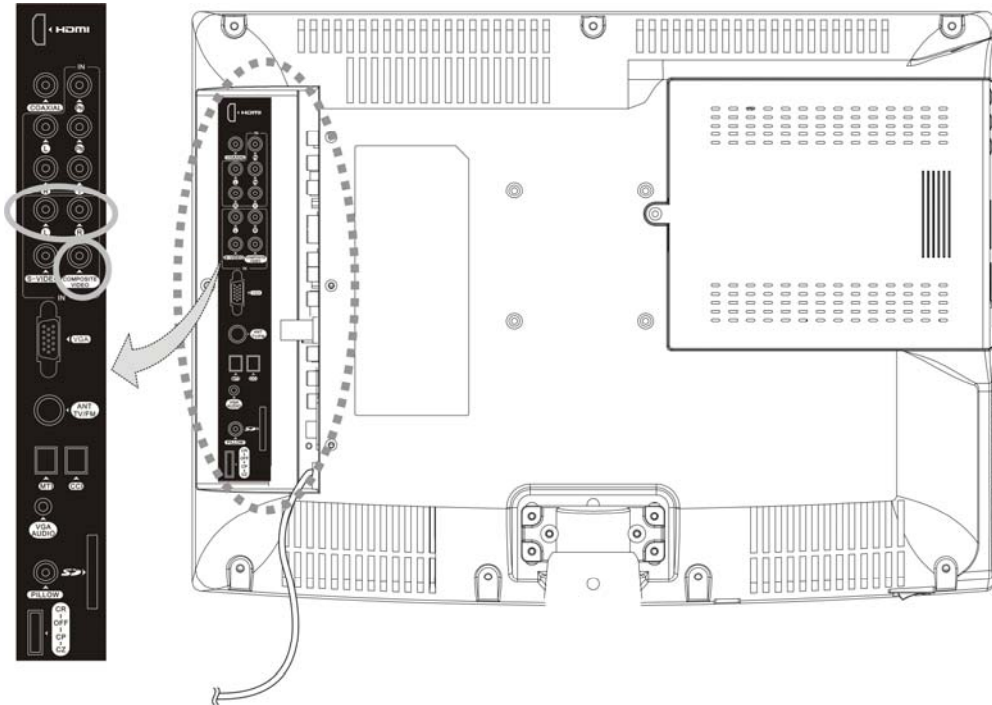


1. Connect only the COAXIAL output to the input of an Amplifier. TV sound should now play through the amplifier system.

Connections

A/V IN

Connects composite video, and stereo or mono audio from devices such as VCR's, DVD's, and Game Boxes.

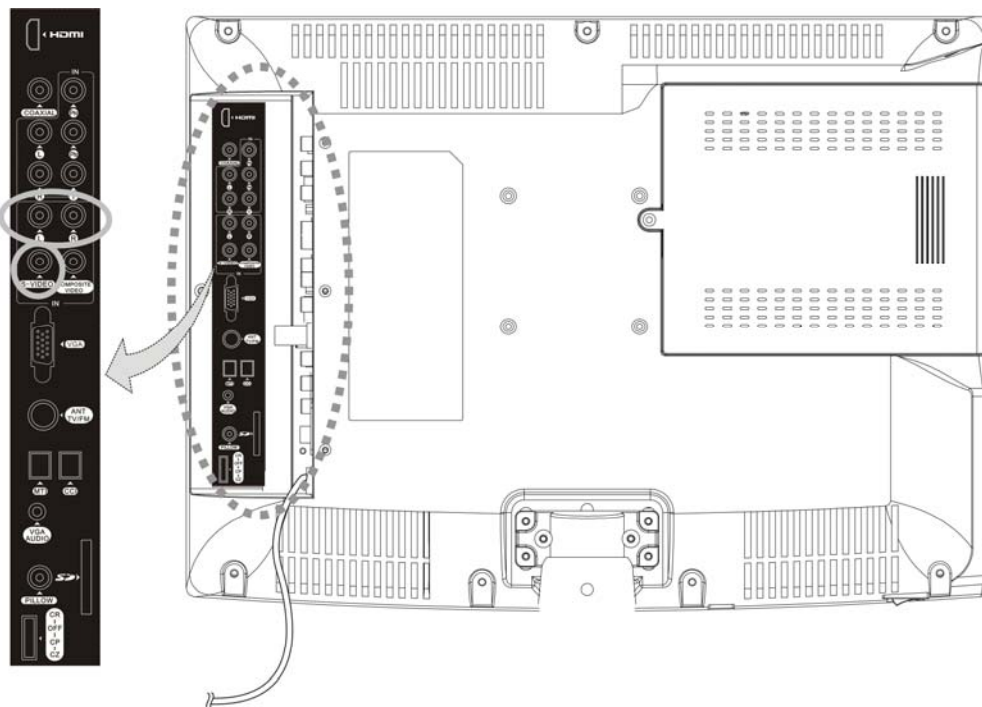


1. Connect the audio outputs from the device (L, R) to the COMPOSITE VIDEO IN L & R on the TV. Connections are color code.
2. Connect the video output from the device to the COMPOSITE VIDEO IN on the TV. Connection is color-coded.
3. Verify that the COMPOSITE VIDEO mode is enabled in the Source Setup menu. Please see "Source Setup" instructions elsewhere in this manual for details.
4. Press the TV/AV button repeatedly until COMPOSITE VIDEO appears in the lower right corner of the screen indicating selection of COMPOSITE VIDEO.
5. Activate the device.

Connections

S-VIDEO Connection

If the external equipment you connect has an S-VIDEO jack, you can use an S-VIDEO cable for improved picture quality (compared to an COMPOSITE VIDEO cable).



1. Connect the VCR's S-Video output directly to the TV's S-VIDEO connector.
2. Connect the VCR's L & R audio to the TV's L & R connector inputs.
3. Verify that the S-VIDEO mode is enabled in the Source Setup menu. Please see "Source Setup" instructions elsewhere in this manual for details.
4. Press the TV/AV button repeatedly until S-VIDEO appears in the lower right corner of the screen indicating selection of S-VIDEO.
5. Activate the VCR. The VCR playback picture appears on the screen.

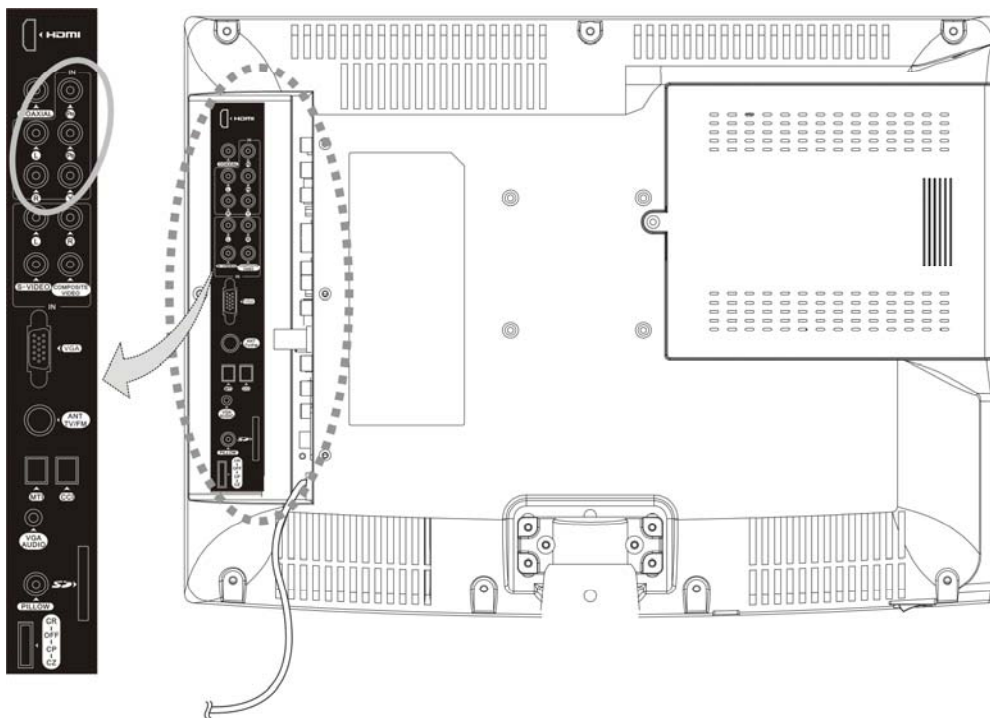
NOTE:

- COMPOSITE VIDEO and S-VIDEO share the L/R audio jacks and S-VIDEO is the priority.

Connections

Component IN

The TV supports one input for devices such as a DVD that offer Component type signals.

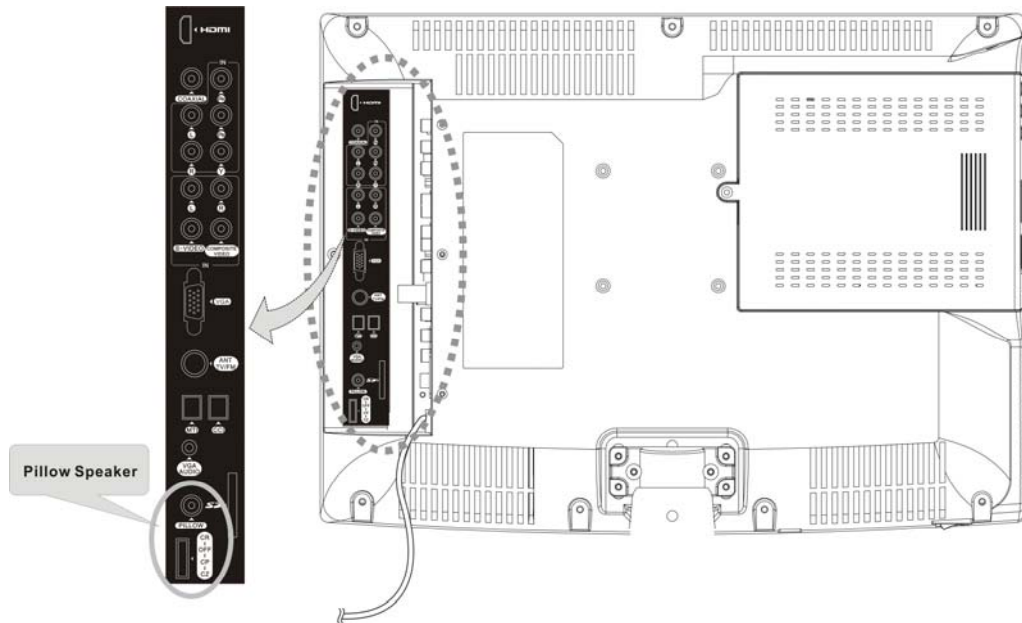


1. Use a component video cable to connect the DVD player's Y/PB/PR jacks to the TV's component Y/PB/PR jacks.
2. Use an audio cable to connect the DVD player's Audio OUT jacks to the TV's Audio In jacks. Be sure to use the appropriate audio input adjacent to the corresponding video input.
3. Verify that the appropriate component input is select is enabled in Source Setup menu. Please see Source Setup instructions elsewhere in this manual for details.
4. Press the TV/AV button repeatedly until Component appears in the lower right corner of the screen indicating selection of the component input.
5. Note: The Y/PB/PR jacks on your external signal source such as DVD player are sometimes labeled Y/Cb/Cr or Y/B-Y/R-Y. If so, connect the cables to like colors.
6. Activate the DVD. The DVD playback picture appears on the screen.

Connections

Pillow Speaker

The pillow speaker (pendant control) jack is located on the TV's connector panel. Control of the TV using an external wired pillow speaker is possible.



1. Select the appropriate brand of digital pillow speaker using the recess slide switch next to the PILLOW jack.
CZ for Zenith[®]
CP for Philips[®]
CR for RCA[®]
OFF to disable the pillow speaker.
For analog style pillow speakers set the switch to either CZ, CP or CR.
NOTE: The TV is shipped from the factory with the switch in the OFF position.



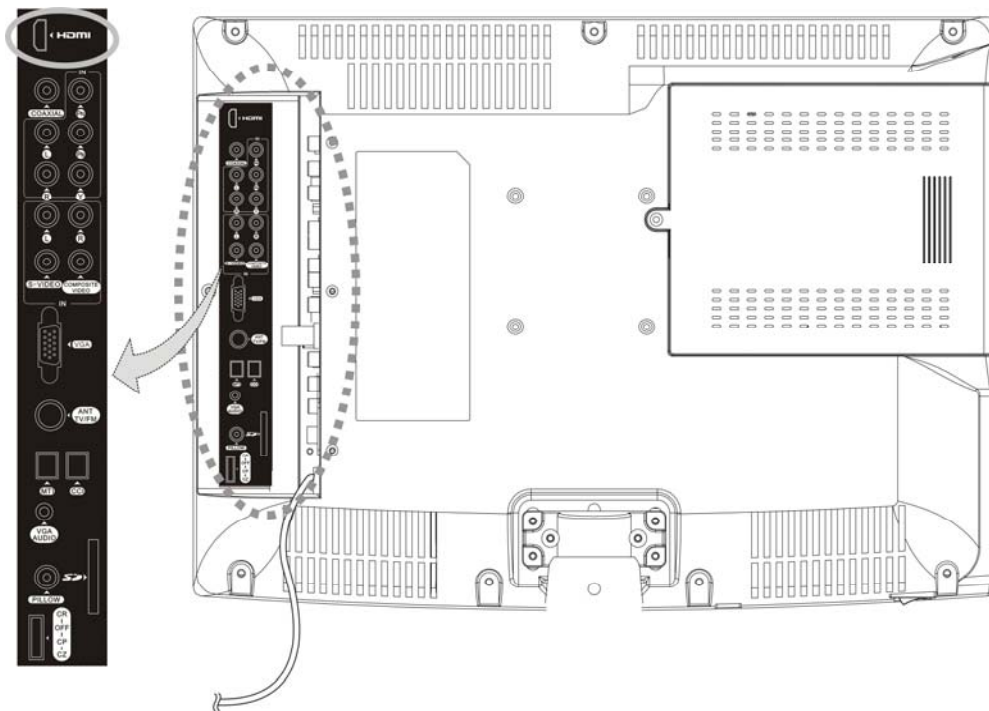
CAUTION: Confirm pillow speaker type and set the side switch appropriately BEFORE connecting the pillow speaker to the TV. Failure to follow this procedure could result in damage to the pillow speaker and/or TV.

2. Connect the pillow speaker to the PILLOW jack.
3. Operate the pillow speaker and verify correct control.

Connections

HDMI INPUT

Two separate inputs are available for High Definition Multimedia Interface (HDMI) style signals.

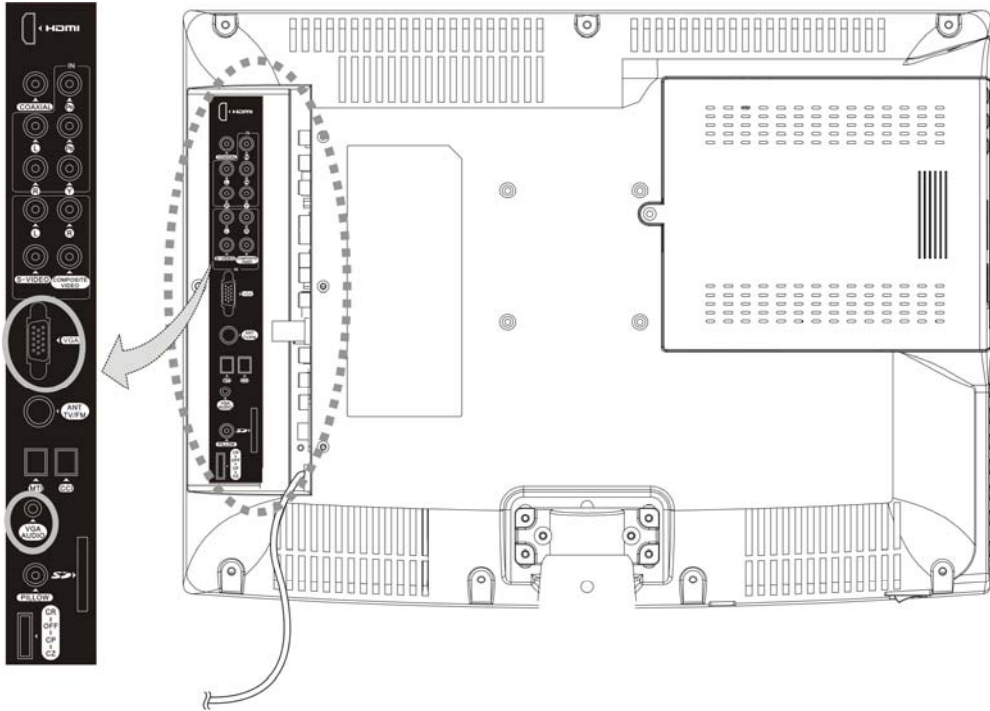


1. Connect the HDMI output from the external device to HDMI on the TV.
2. The external device's audio may be connected via the HDMI port, PC audio or Component audio inputs. The audio input must then be set accordingly in the Sound menu using the HDMI Audio Port source setting.
3. Verify that the HDMI source is enabled in the Source Setup menu. Please see "Source setup" instructions elsewhere in this manual for details.
4. Press the TV/AV button repeatedly until the appropriate input HDMI appears in the upper right corner of the screen indicating selection of the HDMI input.
5. Activate the external device.

Connections

PC IN

The TV can also be used as a computer monitor.



1. Connect the computer's video cable to the VGA IN socket on the set.
2. Connect the computer's audio cable to the AUDIO IN jack on the set.
3. Verify that PC-ANALOG is enabled in the "Source Setup" menu. Please see "Source Setup" instructions elsewhere in this manual for details.
4. Press the TV/AV button repeatedly until PC-ANALOG appears in the lower right corner of the screen indicating selection of PC-ANALOG input.
5. Switch on the computer. The computer's screen should appear on the set.

Connections

Supported Resolution

Model	Resolution	Horizontal frequency (KHz)	Vertical frequency (Hz)
VGA	640 x 480	31.5 KHz	60Hz
SVGA	800 x 600	37.9 KHz	60Hz
XGA	1024 x 768	48.4 KHz	60Hz

NOTE:

1. The TV automatically switches to support the resolutions shown. Selection of a non-supported resolution may result in either a poor or missing picture display.
2. If possible, use the VESA 1024 x 768, 60 Hz video mode to obtain the best image quality. If other resolutions are used, some scaled or processed pictures may appear on the screen.

Basic Operation

Turning the TV On and Off

1. Connect the AC power cord to wall AC Outlet. A front mounted indicator light will illuminate Red indicating the TV has power.
2. Press the POWER button on the remote control, or the TV's POWER button, or the pillow speaker's TV power button. The TV's indicator light will illuminate Green indicating the TV is turned ON. The TV's screen display requires approximately 3 seconds to warm up and display a picture.
3. Press the POWER button again to turn the TV off. A front mounted indicator light will illuminate Red indicating the TV is off.

Channel Selection

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

NOTE: Not all pillow speaker models support direct entry of channels.

Volume Adjustment

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

NOTE: Some pillow speakers contain only a volume wheel that may also require adjustment.

Last Channel

Press the LAST button on the remote control to view the last program you were watching.

NOTE: Some pillow speakers do not support last channel viewing.

Sound Mute Function

Press the MUTE button. The sound is switched off and the mute display  appears.

To cancel mute mode, press the MUTE button again, or press VOL+ or VOL-.

NOTE: Some pillow speakers do not support the mute feature.

Sleep Timer

The sleep timer turns the TV off after activation of a preset time limit.

Press the SLEEP button on the remote repeatedly to select the number of minutes. The time limit can range from 10 up to 120 minutes in value.

Basic Operation

Bed A/B Selection

The remote offers independent Bed A or Bed B selectable codes and independent control of a single television in a two television room.

Press the CODE button on the remote control to shift between Bed A and Bed B.

On Screen Menu Language Selection

You can adjust the language used in displaying the OSD on screen display.

1. Press the OK button on the remote control.
2. Press the CH+/- or ▲/▼ direction button to select the OSD language menu.
3. Press the VOL+/- or ◀/▶ direction button to select the desired language.



4. Press the SETUP button to exit the main menu.

Changing the Source Input

The TV can be switched to other display modes such as VCR, DVD, PC, or other externally connected devices.

1. Press the TV/AV button to change to another source input.

NOTE: The desired source input must be enabled in the Source Setup menu. Please see “Source Setup” instructions elsewhere in this manual for details.

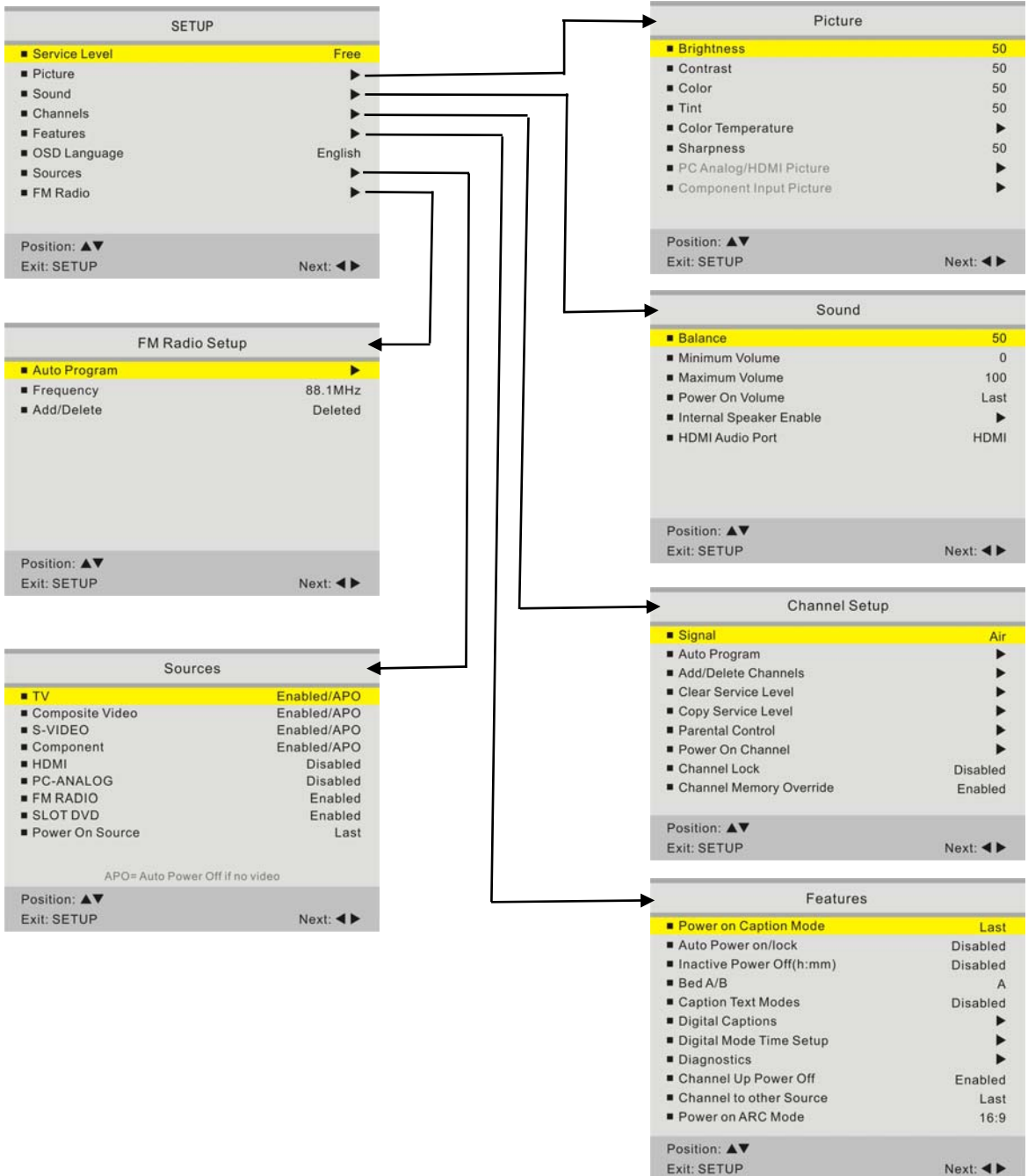
2. Alternatively, press ▲/▼ buttons until reaching the highest channel (or below to the lowest channel). All activated sources will appear in the channel table above the highest channel and is directly viewable.

NOTE: The “Channel to Other Sources” must be enabled in the FEATURES menu to allow top of channel display of activated sources.

On Screen Menus and Displays

The TV is programmed using the menus.

1. Press the **OK** button and then press 7-5-3-1 on the remote control to display the main SETUP menu.
2. Press the CH+/- or ▲/▼ direction button to select a menu item.
3. Adjust or enter the menu item using the VOL+/- or ◀/▶ direction buttons.
4. Press the SETUP button on the remote control to return to the previous menu.



Service Level

Service Level

The TV can be configured with 3 different banks of channels called Service Levels. Each Service Level can be programmed with any combination of channels. For example, a hospital usually elects to dedicate one of the service levels for Pediatrics and another for Maternity since additional or banned channels may be found in either location that would not be normally shown to the general patient population. A DISABLED service level is also available that does not display any channels but rather a disabled message on the TV's screen when the TV is turned on.

To change a Service Level.

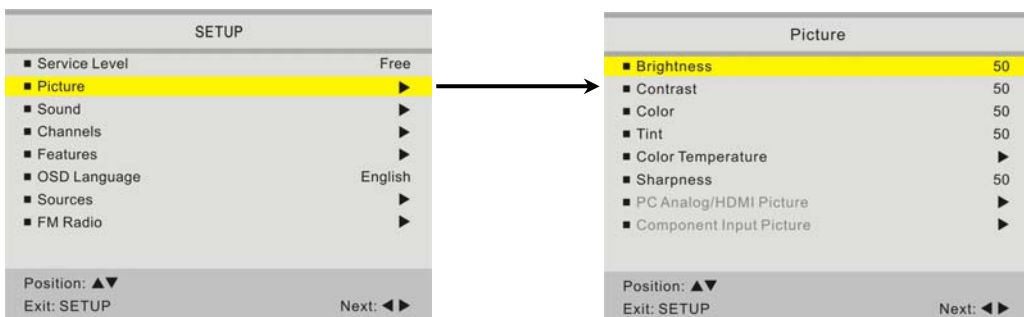
1. Press the OK button to display the SETUP menu.
2. Press the CH+/- or ▲/▼ direction button to highlight Service Level menu item.
3. Press the VOL+/- or ◀/▶ direction buttons to select the desired service level.
4. Press the SETUP button to exit.



NOTE: If a service level is selected that is empty, and has not been programmed with channels, a warning message will be displayed on the TV stating “No Channels Available, Please Contact a TV Representative.” To eliminate this message switch the TV to a Service Level that has been programmed with channels.

Picture

Adjustment of picture Brightness, Contrast, Color, Tint, Color Temperature, Sharpness is available to customize the levels you prefer using the on-screen menus.



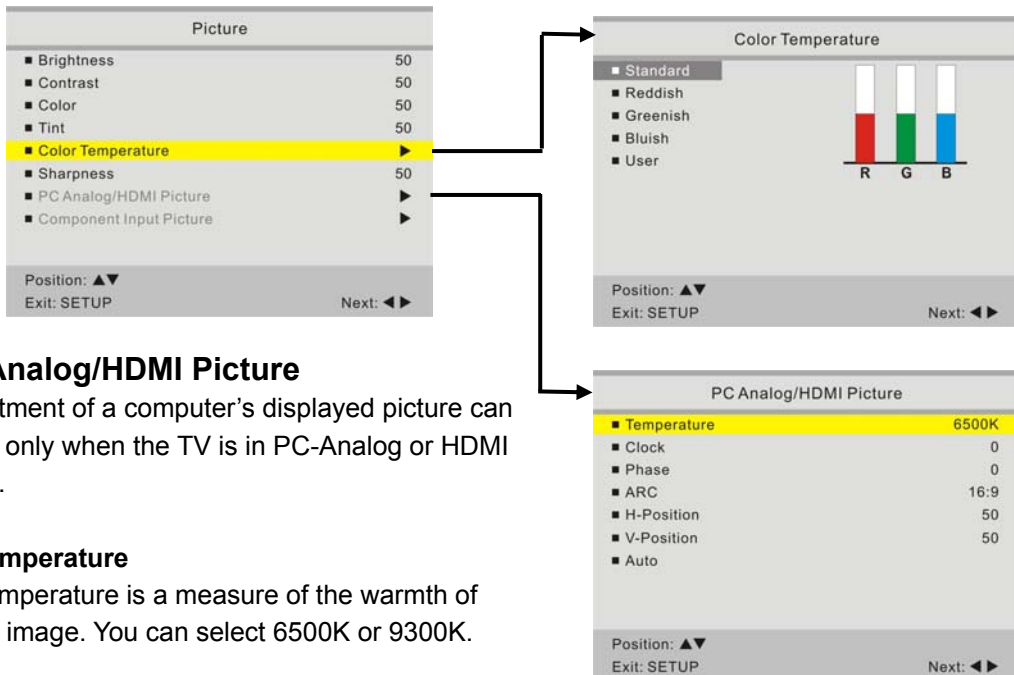
1. Press the OK button to display the SETUP menu.
2. Select the Picture menu item.
3. Press the CH+/- or ▲/▼ direction button to highlight the desired picture item.
4. Adjust the picture item using the VOL+/- or ◀/▶ direction buttons to the desired level.
5. Press the SETUP button to store the picture values.

NOTE: A separate set of picture parameters are available for computer (PC Analog/HDMI Picture) or external devices such as DVD's (Component Input Picture).

Picture Controls

Color Temperature

The color temperature menu appears only when the TV is in TV, Composite Video or S-Video modes. “Standard”, “Reddish”, “Greenish”, “Bluish” color temperatures are available for selection, however the individual colors are not adjustable. The “User” setting allows individual adjustment of each of the TV’s primary colors. The color temperature setting is best set using a calibrated signal source capable of generating a test signal containing both pure white and pure black picture components.



PC Analog/HDMI Picture

Adjustment of a computer’s displayed picture can be made only when the TV is in PC-Analog or HDMI mode.

1. Temperature

Temperature is a measure of the warmth of an image. You can select 6500K or 9300K.

2. Clock

Clock adjustment is used to minimize any vertical bars or stripes visible on the screen’s background. Adjustment of the clock setting also changes the horizontal screen size.

3. Phase

The phase adjustment removes any horizontal noise and is helpful in sharpening text characters.

4. ARC(Aspect Ratio Control)

Select the ratio of the screen size (Horizontal: Vertical): 4:3, 14:9 or 16:9.

5. H-Position (Horizontal Position)

The H-Position moves the picture left or right across the screen.

6. V-Position (Vertical Position)

The V-Position moves the picture up or down across the screen.

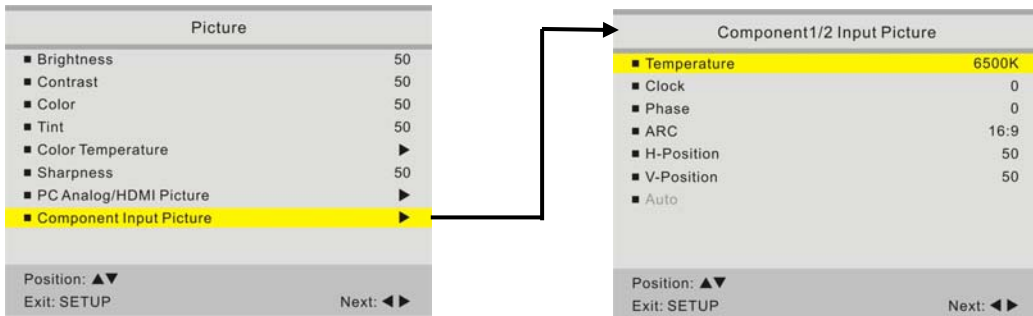
7. AUTO

Automatic adjustment of screen position, clock and phase.

Picture Controls

Component Input Picture

When the TV's source is set to Component Input additional picture adjustments are available.



1. Temperature

Temperature is a measure of the warmth of an image. Two temperatures are available 6500K and 9300K.

2. ARC(Aspect Ratio Control)

Select the ratio of the screen size (Horizontal: Vertical): 4:3,14:9 or 16:9.

3. H-Position (Horizontal Position)

The H-Position moves the picture left or right across the screen.

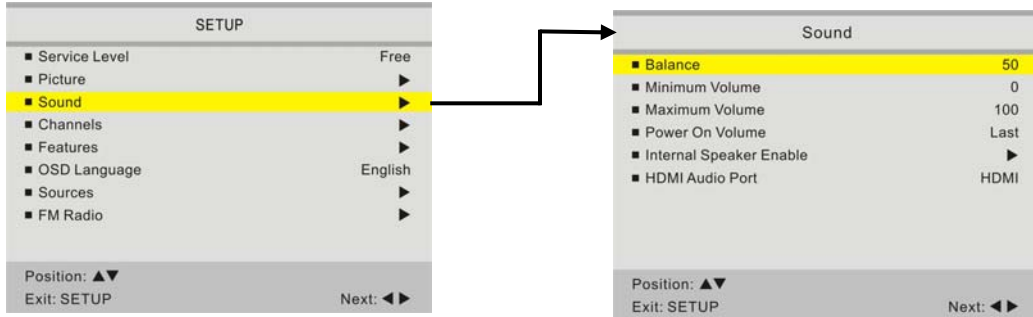
4. V-Position (Vertical Position)

The V-Position moves the picture up or down across the screen.

Sound Control

Sound

The sound menu allows very precise adjustment of several sound parameters.



Balance

Adjusts the sound balance from the left and right speakers mounted in the TV.

1. In sound menu, press the CH+/- or ▲/▼ direction buttons to select Balance.
2. Press the VOL+/- or ◀/▶ direction buttons to adjust the sound balance from the TV.
3. Press the SETUP button to return to the preceding menu.

Minimum Volume

Sets the minimum volume level the TV can reach. Setting this to any value other than 0 guarantees that some level of sound will always be heard when the TV is operating.

1. In sound menu, press the CH+/- or ▲/▼ direction buttons to select Minimum Volume.
2. Press the VOL+/- or ◀/▶ direction buttons to select your preferred minimum volume with the TV turns on.
3. Press the SETUP button to return to the preceding menu.

Maximum Volume

Set the Maximum volume level the TV can reach. This setting is useful for the hard-of-hearing patient who causes disturbance.

1. In sound menu, press the CH+/- or ▲/▼ direction buttons to select Maximum Volume.
2. Press the VOL+/- or ◀/▶ direction buttons to determine your preferred maximum volume allowed.
3. Press the SETUP button to return to the preceding menu.

Power On Volume

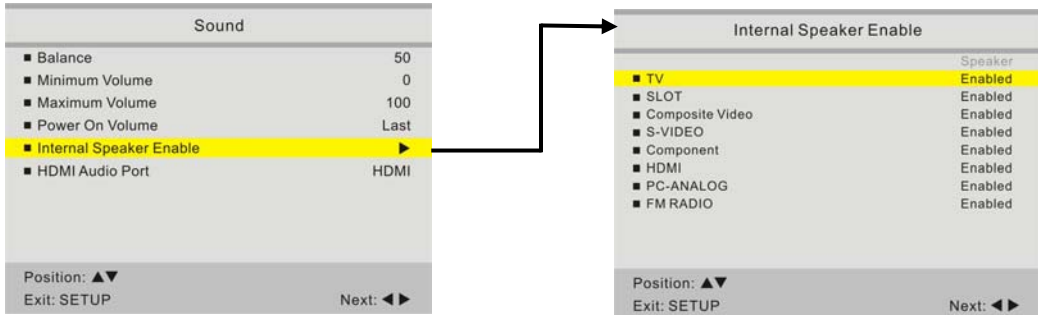
Sets the initial volume the TV starts at upon powering on. Once the TV is on, the volume can be set to any allowable level.

1. In sound menu, press the CH+/- or ▲/▼ direction buttons to select Power On Volume.
2. Press the VOL+/- or ◀/▶ direction buttons to determine your preferred volume when the TV turns on. Setting the level to LAST causes the TV to remember the last volume level used by the TV prior to turning off.
3. Press the SETUP button to return to the preceding menu.

Sound Control

Internal Speaker Enable

The speaker's inside the TV's cabinet can be turned on or off for either different TV Service Level or Source modes. Note: Sound to an attached pillow speaker remains on at all times.



1. In the Sound menu, press CH+/- or ▲/▼ direction button to select the Internal Speaker Enable menu item.
2. Press the CH+/- or ▲/▼ direction button to select the desired Sources.
3. Press the VOL+/- or ◀/▶ direction to select Disable or Enabled.
4. Press the SETUP button to return to the preceding menu.

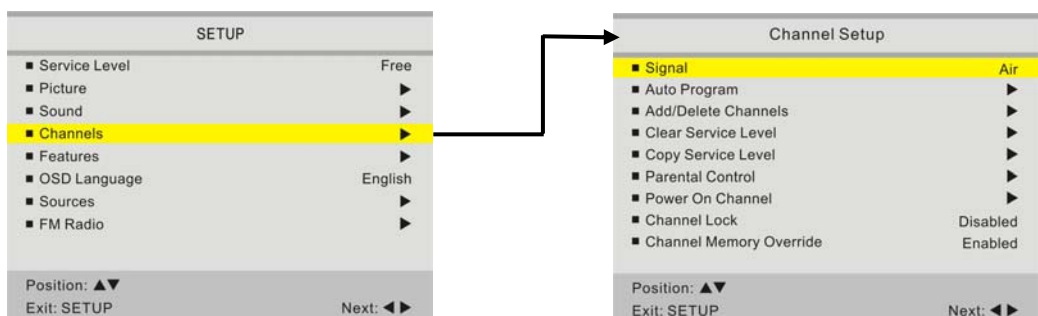
HDMI Audio Port

Sound can be inputted to one of several other inputs when the TV is set to HDMI video.

1. In the Sound menu, press CH+/- or ▲/▼ direction button to select HDMI Audio Port.
2. Press the VOL+/- or ◀/▶ direction to select either HDMI, PC or Component inputs for audio while using HDMI video.
3. Press the SETUP button to return to the preceding menu.

Channels

The TV offers three different programmable channel banks or Service Levels. Programming is only accomplished using the handheld remote control.



Channel Setup

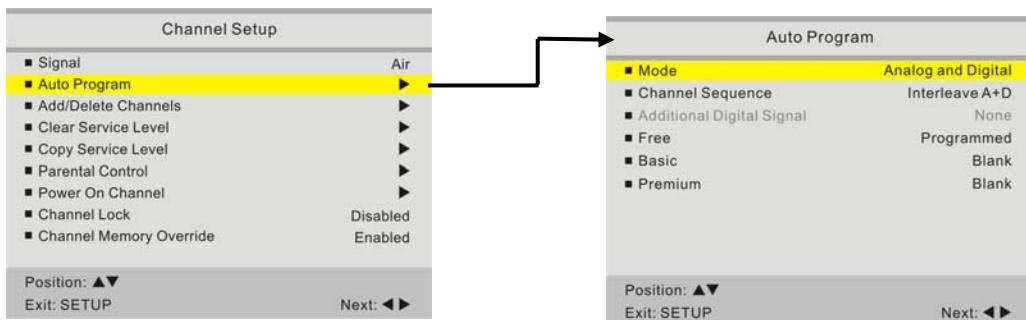
Signal

Four different tuning types are available depending upon the healthcare facility's signal style. Selection of the correct signal type is required for the TV to recognize all possible channels and before any channel programming can begin.

1. Press the OK button to display the SETUP menu.
2. Press the CH+/- or ▲/▼ direction buttons to select Channels item and press the VOL+/- or ◀/▶ direction buttons to enter the Channels menu.
3. Press the CH+/- or ▲/▼ direction button to select Signal.
4. Press VOL+/- or ◀/▶ direction to select Air, Cable STD, Cable IRC or Cable HRC. NOTE: Most hospitals use the Cable STD signal style.

Auto Program

The TV automatically scans each available channel for activity. Channels that display activity are memorized into the selected Service Level.



1. Press the OK button to display the SETUP menu.
2. Press the CH+/- or ▲/▼ direction buttons to select Channels item and press the VOL+/- or ◀/▶ direction buttons to enter the Channels menu.
3. Press the CH+/- or ▲/▼ direction buttons to select Auto Program item and press the ▶ direction button to enter the Auto Program menu.
4. Press the CH+/- or ▲/▼ direction buttons to select Mode.
5. Press the VOL+/- or ◀/▶ direction buttons to set the scope of channel scanning.
Analog Only: TV searches for analog channels only.
Digital Only: TV searches for digital channels only.
Analog and Digital: TV searches for both analog and digital channels.
6. Press the CH+/- or ▲/▼ direction buttons to select Channel Sequence menu item.

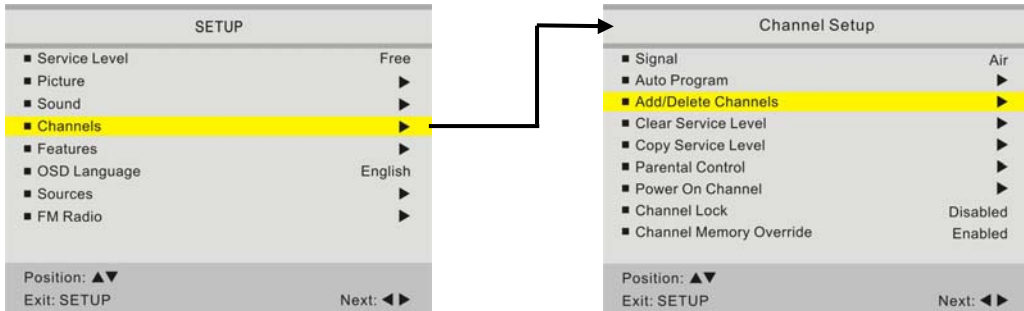
Channel Setup

7. Press the VOL+/- or ◀/▶ direction buttons to set the Channel Sequence in which the channels are displayed after searching.
Internal A+D: In the order of channel number regardless of the system.
All A then D: Digital channels are displayed after all analog channels.
8. Press the CH+/- or ▲/▼ direction buttons to select the Service Level you wish to program. The menu displays the current programming status of each level as either Programmed or Blank.
Note: A Programmed service level can also be re-programmed if desired.
9. Press the ▶ direction button to start auto programming.
10. A confirmation menu will appear before proceeding. Press either the CH+ or ▲ direction button to start auto programming. Press the CH - or ▼ direction button to cancel the operation. The TV will now search all available channels. Auto programming may require service minutes to complete.
11. Press the SETUP button to return to normal TV viewing.

Channel Setup

Add/Delete Channels

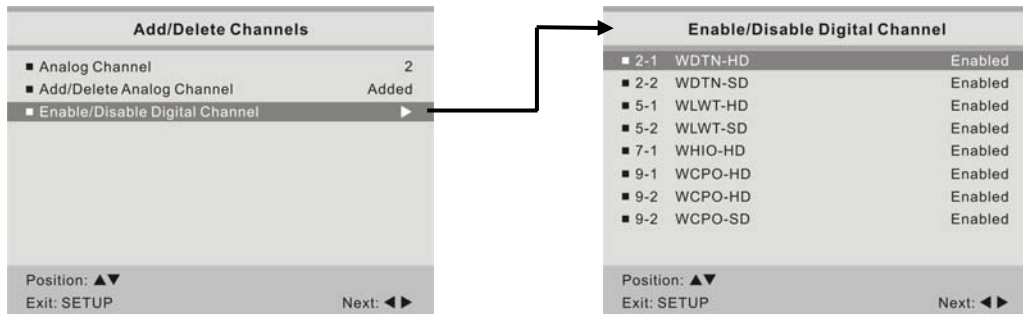
Individual analog TV channels that are missing can be added to a Service Level. Or, analog TV channels that require deletion can be removed from a Service Level. Currently registered Digital channels can be enabled or disabled in each service level.



1. Press the OK button to display the SETUP menu.
2. Press the CH+/- or ▲/▼ direction buttons to select Channels item and press the VOL+/- or ◀/▶ direction buttons to enter the Channels menu.
3. Press the CH+/- or ▲/▼ direction buttons to select Add/Delete Channels and press the VOL+/- or ◀/▶ direction buttons to enter the Add/Delete Channel Service Level menu.
4. Press the CH+/- or ▲/▼ direction buttons to select the Service Level you wish to add or delete channels.
5. Press the VOL+/- or ◀/▶ direction buttons to enter the Add/Delete Channels menu for that Service Level.



Channel Setup



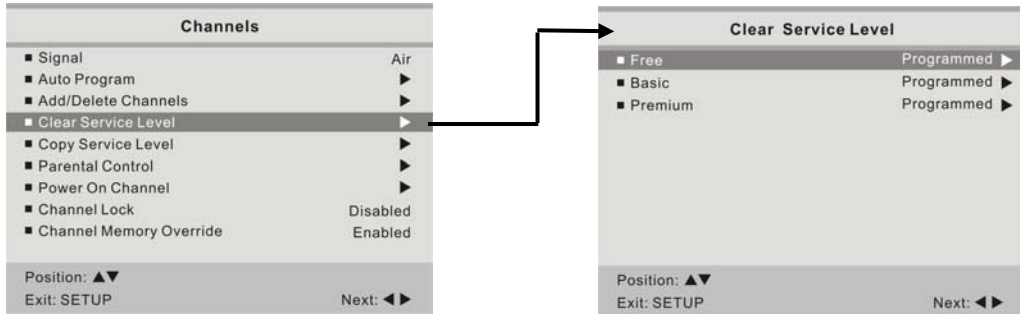
The Add/Delete Channels menu provides access to both Analog and Digital Channels.

6. Press the VOL+/- or ◀/▶ direction buttons to select the Analog channel number. Then press the CH+/- or ▲/▼ direction buttons to select Add/Delete Analog Channel. Use the VOL+/- or ◀/▶ direction buttons to select Added or Deleted.
7. Press the CH+/- or ▲/▼ direction buttons to select Enabled/Disabled Digital Channels menu. Then press the VOL+/- or ◀/▶ direction buttons to enter. A status listing of the current memorized channels is shown.
8. Select the channel to be changed using the CH+/- or ▲/▼ direction buttons. Use the VOL+/- or ◀/▶ direction buttons to change the status to Enabled or Disabled.
9. Press the SETUP button to return to the preceding menu.

Channel Setup

Clear Service Level

Empties a service level of all programmed channels leaving it blank.



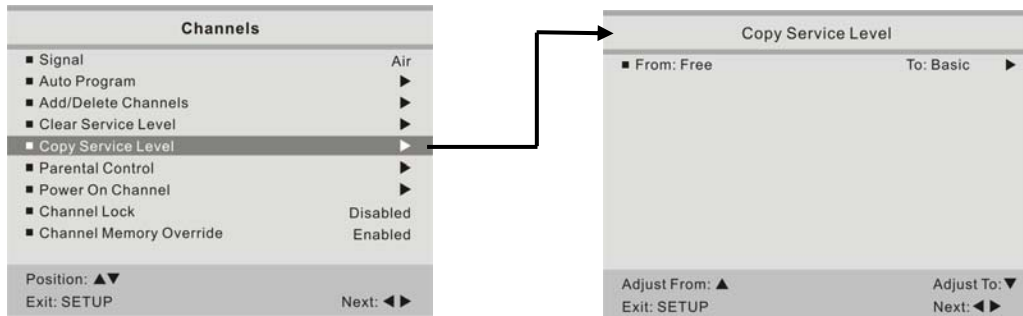
1. From the Channels menu, press the CH+/- or ▲/▼ direction buttons to select Clear Service Level.
2. A listing of service levels are shown with the current programmed status.
3. Press the CH+/- or ▲/▼ direction buttons to select the desired Service level.
4. Press the VOL+/- or ◀/▶ direction buttons once. A Confirm Clear menu appears.
5. Press the CH + or ▲ direction button to confirm clearing of the selected Service Level.
6. Press the CH - or ▼ direction button to exit without making any changes to the selected Service Level.
7. Press the SETUP button to return to the preceding menu.



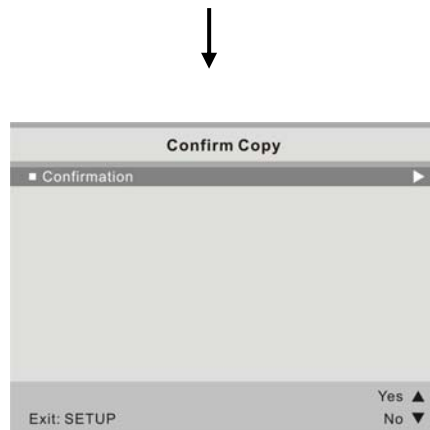
Channel Setup

Copy Service Level

Copies one service level of another.



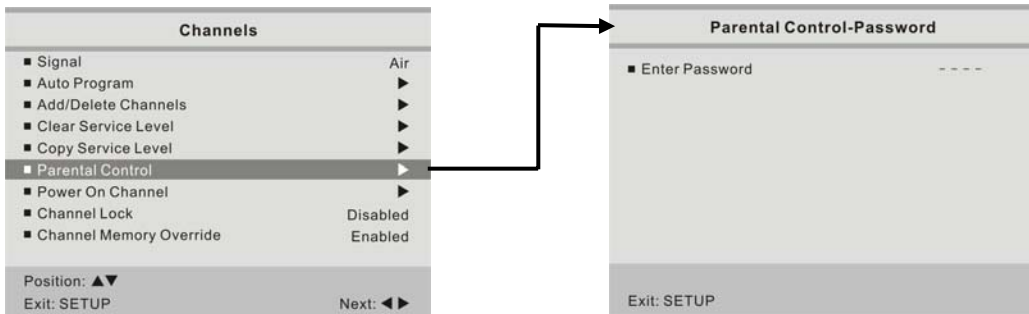
1. From the Channels menu, press the CH+/- or ▲/▼ direction buttons to select Copy Service Level and press the ► direction button. A Copy Service Level menu appears and shows a source (From) and destination (To) Service Level.
2. Press the CH+ or ▲ direction button to adjust the From Service Level.
3. Press the CH - or ▼ direction button to adjust the To Service Level.
4. Press the VOL+/- or ◀/▶ direction buttons once. A Confirm Copy menu appears.
5. Press the CH+ or ▲ direction button to confirm copy of the selected Service Level.
6. Press the CH- or ▼ direction button to exit without making any changes to the selected Service Level.
7. Press the SETUP button to return to the previous menu.



Channel Setup

Parental Control

A parental control feature is available to restrict and block undesirable programs from appearing on the TV. This feature is of particular importance for televisions installed in pediatric wards.



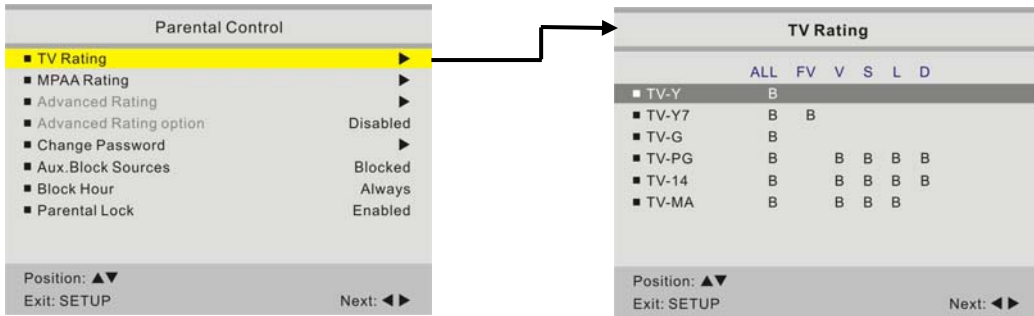
If the Parental Lock is Enabled in Parental Control menu, an Enter Password screen will appear. The default setting is Disabled.

1. In Channels menu, press the CH+/- or ▲/▼ direction buttons to select Parental Control menu.
2. Using an IR remote control, enter the four digit password. An "X" will be echoed as each number is entered. The default input password for a new TV set is "0000". If the wrong password is entered, return to the Channel Setup menu and try again.
3. You may exit at any time by pressing the SETUP button to return to the preceding menu.

Channel Setup

TV Rating

Most television programming is now rated. TV Rating allows the TV to selectively present only programming content that is unblocked per its preset level. A program that is blocked, displays a black screen only.



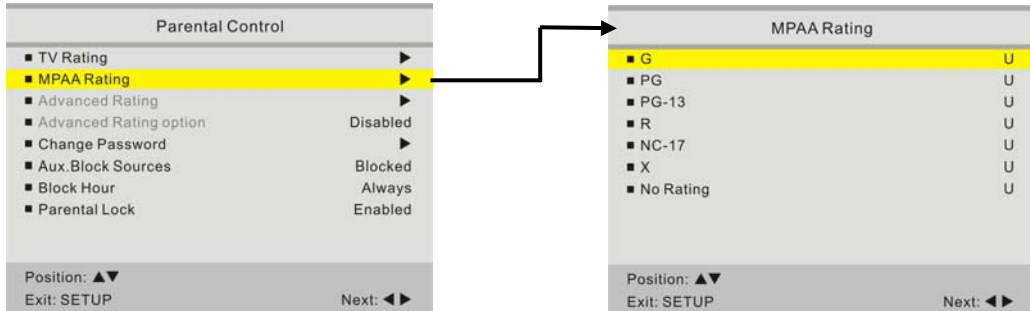
1. In the Parental Control menu, press the CH+/- or ▲/▼ direction buttons to select the TV Rating item. Then press the VOL+ or ► direction buttons to enter the TV Rating menu.
2. Press the CH+/- or ▲/▼ direction buttons to move to one of the six age-based categories. At this point, one of the TV-Ratings is selected. Depending on your existing setup, a letter “U” or “B” will be highlighted. (U=Unblocked, B=Blocked).
3. While the “U” or “B” is highlighted, press the CH+/- or ▲/▼ direction buttons to block or unblock the category.
4. Select one of these TV-Ratings: TV, TV-Y, TV-Y7, TV-G, TV-PG, TV-14 or TV-MA. Then while the TV-Rating is selected, repeatedly press the VOL+/- or ◀/▶ direction buttons. This will cycle through the available sub-ratings (ALL, FV, V, S, L or D). A HIGHLIGHTED LETTER (“U” or “B”) will be displayed for each sub-rating. While the “U” or “B” is highlighted, press the CH+/- or ▲/▼ direction buttons to change the sub-rating. To select a different TV-Rating, press the CH+/- or ▲/▼ direction buttons with cursor in the first column.
5. Press the SETUP button to return to the previous menu.

NOTE: The V-Chip will automatically block certain categories that are “most restrictive”. If you block TV-Y category, then TV-Y7 will be blocked automatically. Similarly, if you block TV-G category, then all the categories in the “young adult” will be blocked; (TV-G, TV-PG, TV-14 and TV-MA).

Channel Setup

MPAA Rating

Most televised movies are now rated. MPAA Rating selectively allows the TV to only present movie content that is unblocked per its preset level.



1. In the Parental Control menu, press the CH+/- or ▲/▼ direction buttons to select the MPAA Rating item. Then press the VOL+/- or ◀/▶ direction buttons to enter the MPAA Rating menu.
2. Press the CH+/- or ▲/▼ direction buttons to select a particular MPAA Rating.
3. While a particular category is selected, press the VOL+/- or ◀/▶ direction buttons to change the “U” or “B”. The TV displays a black screen for a blocked movie.
4. Press the SETUP button to return to the previous menu.

Note:

Parental Control will automatically block any category that is “more restrictive”. For example, if you block the “PG-13” category, then “R”, “NC-17” and “X” will automatically be blocked also.

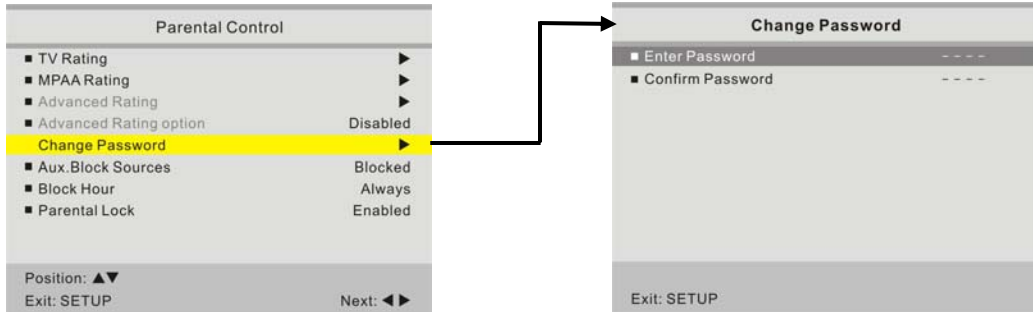
Advanced Rating

Advanced Rating option

Channel Setup

Change Password

The Parental Control access password can be changed using this menu.



1. From the Parental Control menu, press the CH+/- or ▲/▼ direction buttons to select Change Password item. Then press the VOL+/- or ◀/▶ direction buttons to enter the Change Password menu.
2. Enter a new password. Confirm the password a second time by entering the same digits.
3. Press the SETUP button to return to the previous menu.

Aux. Block Source

In addition to blocking the TV's programming, the auxiliary sources can be blocked. When the TV encounters an external signal source that is not appropriate per its settings, a black screen appears with muted sound.

1. From the Parental Control menu, press the CH+/- or ▲/▼ direction button to select AUX. Block source. Then press the VOL+/- or ◀/▶ direction button to enter.
2. Press the buttons to change the "Unblocked" or "Blocked" status.
3. Press the SETUP button to return to the previous menu.

Block Hour

Block Hours sets the amount of time in hours you want Parental Control Active.

Parental Lock

With Parental Lock On, the Parental Function is active. Turn off to disable Parental Control.

Movie & TV Rating Systems

Motion Picture Association of USA (MPAA) Rating System

Grade		Meaning
G	General Audiences	Content not offensive to most viewers
PG	Parental Guidance Suggested	Content is such that parents may not want their children to view the program.
PG-13	Parental Strongly Cautioned	Program is inappropriate for preteens, with a greater degree of offensive material Suggested than a PG rated program
R	Restricted viewing	Not for children under age 17. Strong elements of sex and/or violence.
NC-17	No Children under age 17	Not for children under age 17 under any circumstances. Strong sexual content.
X	Hard Core Films	Same as NC-17 rating.
No Rating	No Rating	MPAA Not Rated

TV Parental Guideline Rating System

Grade		Meaning
TV-Y	Young Children	Content not offensive to most viewers
TV-Y7	Children 7 and over	Considered suitable for children over 7, may contain Fantasy Violence Scenes.
TV-G	Parental Audience	Considered suitable for all audiences; children may watch unattended.
TV-PG	Parental Guidance	Suggested Unsuitable for younger children, may contain: Suggestive Dialog, Bad Language, Sex, and Violence Scenes
TV-14	Parents Strongly Cautioned	Unsuitable for children under 14, may contain: Strong Dialog, Bad Language, Sex, and Violence Scenes.
TV-MA	Mature Audience Only	Adults only, may contain: Strong Dialog, Bad Language, Sex, and Violence Scenes.

NOTE

The V-Chip will automatically block certain categories that are 'more restrictive'. If you block TV-Y category, then TV-Y7 will be automatically blocked. Similarly, if you block TV-G category, then all the categories in the 'young adult' will be blocked; (TV-G, TV-PG, TV-14 and TV-MA).

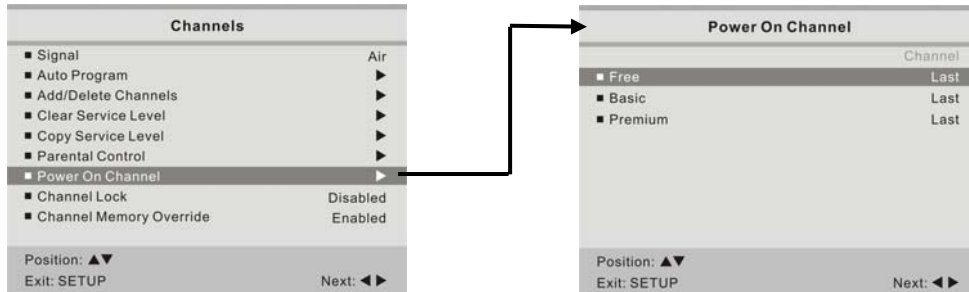
The sub-rating of TV rating

Grade	Meaning
FV	Fantasy Violence
V	Violence
S	Sexual Situation
L	Adult Language
D	Sexual Suggestive Dialog

Channel Setup

Power On Channel

Displays a fixed channel each time the TV is turned on. This feature is useful for hospitals that have a Welcome Channel and wish to have it displayed upon initial use of the TV. The patient can then tune to any other available channel.



1. From the Channels menu, press the CH+/- or ▲/▼ direction button to select the Power On Channel. Then press the VOL+/- or ◀/▶ direction button to enter.
2. Press the CH+/- or ▲/▼ direction button to select the desired service level.
3. Press the VOL+/- or ◀/▶ direction buttons to scroll through the channels currently available in the Service Level. Select either a dedicated channel or "Last" for the last channel viewed by the patient.
4. Press the SETUP button to return to the previous menu.

Channel Lock

Locks the currently viewed channel and prevents patients from tuning to any other channel. This feature is useful when the TV is used for information display purposes.

1. From the Channels menu, press the CH+/- or ▲/▼ direction button to select the Channel Lock.
2. Press the VOL+/- or ◀/▶ direction button to Enable or Disable the Channel Lock feature.
3. Press the SETUP button to return to the previous menu.



Channel Memory Override

Prevents patients from tuning to a channel that is not memorized in the current Service Level memory.

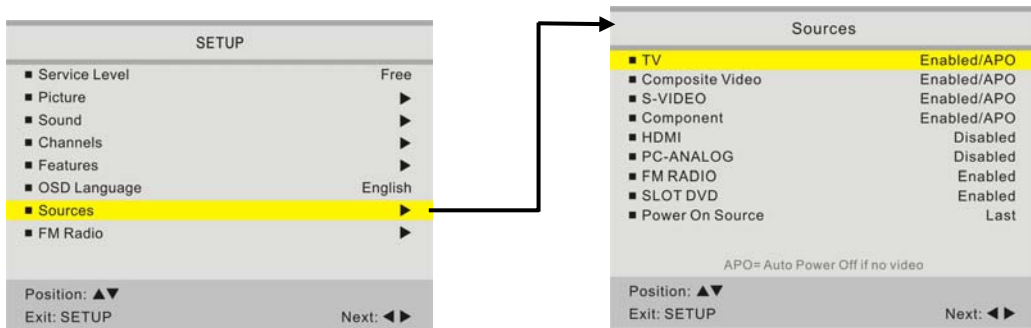
1. From the Channels menu, press the CH+/- or ▲/▼ direction button to select the Channel Memory Override.
2. Press the VOL+/- or ◀/▶ direction button to Enable or Disable the Channel Memory Override feature. DISABLED = Service Level Channels only. ENABLED = All possible channels.
3. Press the SETUP button to return to the previous menu.



Source Setup

Enabling / Disabling Sources

The TV's signal sources can be individually Enabled or Disabled. A TV that is switched to a non-connected source generates nuisance hospital maintenance calls of "TV Not Working", when in fact the TV does work, but has been set to an inactive source. Please Disable all of the TV's sources that are not to be used.



1. From the SETUP menu, press the CH+/- or ▲/▼ direction buttons select Sources. Then press the VOL+/- or ◀/▶ direction buttons to enter.
2. Press the CH+/- or ▲/▼ direction buttons to select a source.
3. Press the VOL+/- or ◀/▶ direction buttons to change the source status to either Disabled or Enabled as desired. NOTE: Sources that are grayed out are not installed in the TV.
4. Press the SETUP button to exit.

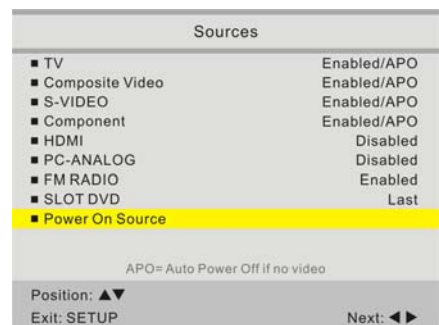
Power On Source

The TV can be preset to power on to a selected source.

1. From the SETUP menu, press the CH+/- or ▲/▼ direction buttons select Sources. Then press the VOL+/- or ◀/▶ direction buttons to enter.
2. Press the CH+/- or ▲/▼ direction buttons to select Power On Source.
3. Press the VOL+/- or ◀/▶ direction buttons to change the source.

NOTE: The source must be enabled before it can be chosen as a power on source. The "LAST" entry causes the TV to power on from the "LAST" source selected.

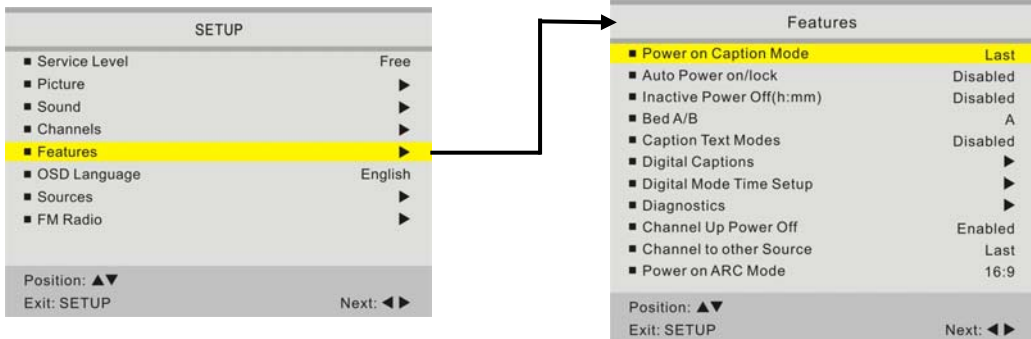
4. Press the SETUP button to exit.



Features

Features

The Features menu provides adjustable settings that customize the TV to your hospital.



Power On Caption Mode

Power On Caption Mode memorizes the caption setting upon powering the TV off. With this feature set Off, the TV will always power on with captions disabled.

With this feature set to Last, the TV powers on with the last caption's setting.

1. Press the OK button.
2. Press the CH+/- or ▲/▼ direction buttons to select the Features item and press the VOL+/- or ◀/▶ direction buttons to enter the Features menu.
3. Press the CH+/- or ▲/▼ direction buttons to select Power On Caption Mode and press the VOL+/- or ◀/▶ direction buttons to select Last or Off.
4. Press the SETUP button to return to the previous menu.

Auto Power On

The TV will turn on and stay on whenever electrical power is applied to the set. The feature is useful for controlling the TV from a wall switch or preventing the TV from being turned off via the front the TV power button or the remote control.

1. In the Features menu, press the CH+/- or ▲/▼ direction buttons to select Auto Power On.
2. Press the VOL+/- or ◀/▶ direction buttons to select Disabled or Enabled.
3. Press the SETUP button to return to the previous menu.



Features

Inactive Power Off

The TV will automatically power off after a specific period of viewer inactivity providing energy savings.

1. In the Features menu, press the CH+/- or ▲/▼ direction buttons to select Inactive Power Off(h:mm).
2. Press the VOL+/- or ◀/▶ direction buttons to determine active time. Set to Disabled to disable this feature.

3. Press the SETUP button to return to the previous menu.

NOTE: Auto Power On must be set to Disabled for this function to operate.

Features	
■ Power on Caption Mode	Last
■ Auto Power on/lock	Disabled
■ Inactive Power Off(h:mm)	Disabled
■ Bed A/B	A
■ Caption Text Modes	Disabled
■ Digital Captions	▶
■ Digital Mode Time Setup	▶
■ Diagnostics	▶
■ Channel Up Power Off	Enabled
■ Channel to other Source	Last
■ Power on ARC Mode	16:9
Position: ▲▼	
Exit: SETUP	Next: ◀▶

Bed A/B

The remote offers independent Bed A or Bed B selectable codes and independent control of a single television in a two television room.

1. In Features menu, press the CH+/- or ▲/▼ direction button to select Bed A/B.
2. Press the VOL+/- or ◀/▶ direction button to select remote control **A** or **B**.

3. Press the SETUP button to return to the preceding menu.

NOTE: The remote's bed codes are set by press a paper clip or pencil tip end into the code hole located above the "CODE" label on the remote.

Features	
■ Power on Caption Mode	Last
■ Auto Power on/lock	Disabled
■ Inactive Power Off(h:mm)	Disabled
■ Bed A/B	A
■ Caption Text Modes	Disabled
■ Digital Captions	▶
■ Digital Mode Time Setup	▶
■ Diagnostics	▶
■ Channel Up Power Off	Enabled
■ Channel to other Source	Last
■ Power on ARC Mode	16:9
Position: ▲▼	
Exit: SETUP	Next: ◀▶

Caption Text Modes

Teletext can be displayed in addition to Captions. Teletext is not normally broadcast in the USA. Caption Text Modes should be set to Disabled for televisions operated in the USA.

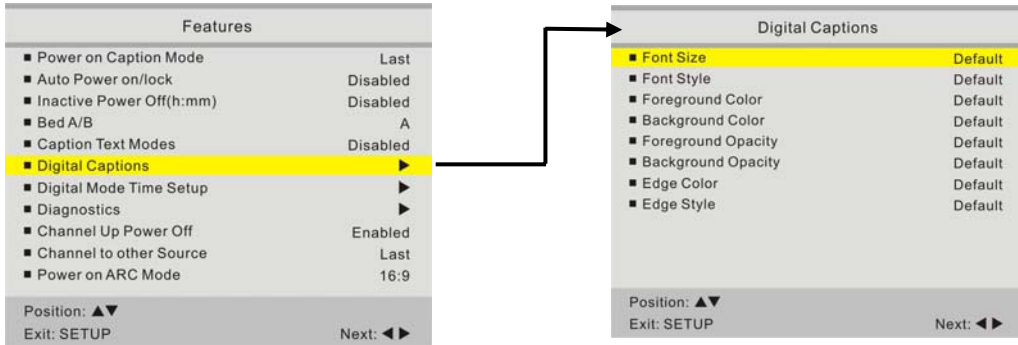
1. In Features menu, press the CH+/- or ▲/▼ direction button to select Caption Text Modes.
2. Press the VOL+/- or ◀/▶ direction button to select Disabled or Enabled.
3. Press the SETUP button to return to the preceding menu.

Features	
■ Power on Caption Mode	Last
■ Auto Power on/lock	Disabled
■ Inactive Power Off(h:mm)	Disabled
■ Bed A/B	A
■ Caption Text Modes	Disabled
■ Digital Captions	▶
■ Digital Mode Time Setup	▶
■ Diagnostics	▶
■ Channel Up Power Off	Enabled
■ Channel to other Source	Last
■ Power on ARC Mode	16:9
Position: ▲▼	
Exit: SETUP	Next: ◀▶

Features

Digital Mode Time Setup

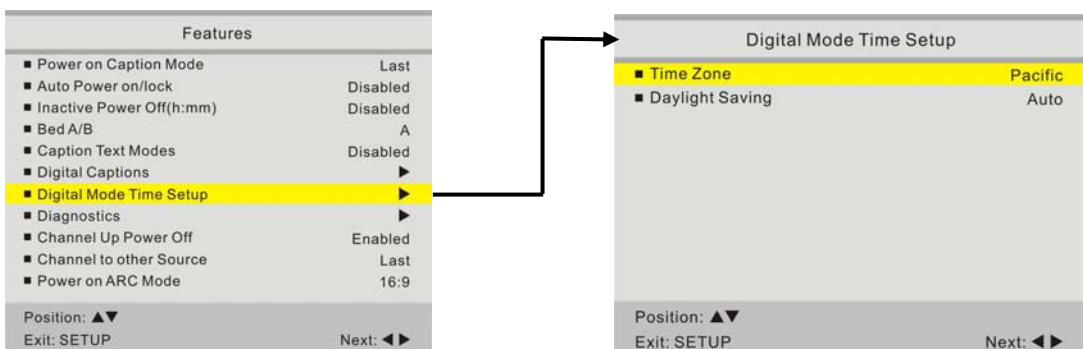
You can change the setting about the Caption Text.



1. In the Features menu, press the CH+/- or ▲/▼ direction buttons to select Digital Captions and press the VOL+/- or ◀/▶ direction to enter.
2. Press the CH+/- or ▲/▼ direction buttons to select Font Size, Font Style, Foreground Color, Background Color, Foreground Opacity, Background Opacity, Edge Color or Edge Style.
3. Press the VOL+/- or ◀/▶ direction buttons to select desired setting.
4. Press the SETUP button to return to the previous menu.

Digital Mode Time Setup

The current time will be set automatically from a digital channel signal provided by a broadcasting TV station.



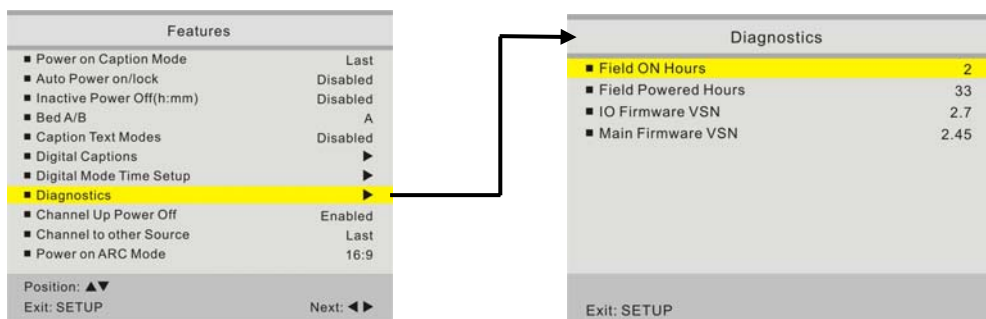
1. In the Features menu, press the CH+/- or ▲/▼ direction buttons to select Digital Mode Time Setup and press the VOL+/- or ◀/▶ direction to enter.
2. Press the VOL+/- or ◀/▶ direction buttons to select your viewing area time zone: Pacific, Alaska, Hawaii, Newfoundland, Atlantic, Eastern, Central or Mountain.

Features

3. Press the CH+/- or ▲/▼ direction buttons to select Daylight Saving.
4. Press the VOL+/- or ◀/▶ direction buttons to select Auto, On or Off depending on whether or not your viewing area observes Daylight Saving time.
5. Press the SETUP button to return to the previous menu.

Diagnostics

This menu provides readouts of the TV's internal operation. The Diagnostics menu items are read-only and can not be changed.

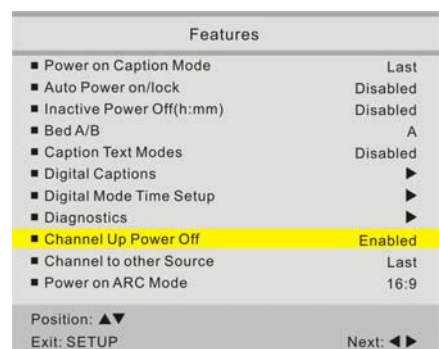


- Field ON Hours:** Cumulative time TV is actually on.
- Field Powered Hours:** Cumulative time TV is powered.
- IO Firmware VSN:** IO Firmware Version.
- Main Firmware VSN:** Main Firmware Version.

Channel Up Power Off

This feature causes the TV to turn off once it reaches the highest numbered (last) channel and is usually used with single button style pillow speakers. When the feature is disabled, the TV will continue on to the lowest channel and not turn off.

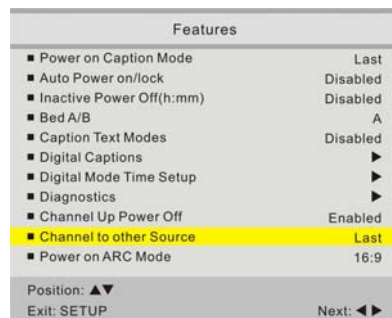
1. In Features menu, press the CH+/- or ▲/▼ direction button to select Channel Up Power Off.
2. Press the VOL+/- or ◀/▶ direction button to select Enabled or Disabled.
3. Press the SETUP button to return to the preceding menu.



OSD Language

Channel to Other Source

External signal sources connected to the TV such as DVD players or Game Boys are shown in the current channel lineup after the highest channel and then shown on the TV. Set this feature to Disabled to require the activation of the external sources via a key press of the TV's front "TV/AV" button. Set this feature to Enabled to allow channel access to external devices.

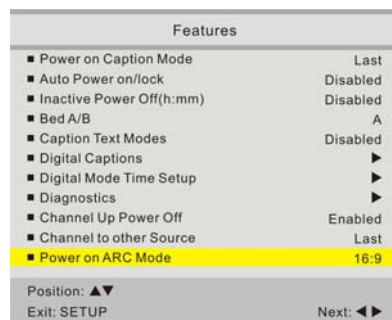


1. In Features menu, press the CH+/- or ▲/▼ direction button to select Channel To Other Source.
2. Press the VOL+/- or ◀/▶ direction button to select Enabled or Disabled.
3. Press the SETUP button to return to the preceding menu.

Power On ARC Mode

The TV powers on with a set screen sized aspect ratio of 4:3, 14:9, 16:9, 16:9 Panorama, or Last select ARC.

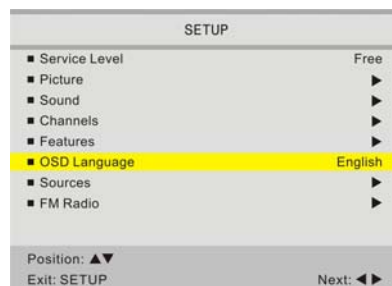
1. In Features menu, press the CH+/- or ▲/▼ direction button to select Power On ARC Mode.
2. Press the VOL+/- or ◀/▶ direction button to select 4:3, 14:9, 16:9, 16:9 Panorama, or Last select ARC.
3. Press the SETUP button to return to the preceding menu.



On Screen Menu Language Selection

You can adjust the language used in displaying the (OSD) on screen display.

1. Press the OK button on the remote control.
2. Press the CH+/- or ▲/▼ direction button to select the OSD Language menu.
3. Press the VOL+/- or ◀/▶ direction button to select your desired language.



4. Press the SETUP button to exit the main menu.

FM Radio

FM Radio

You can listen to FM radio stations that are combined with the cable TV signals using this TV.

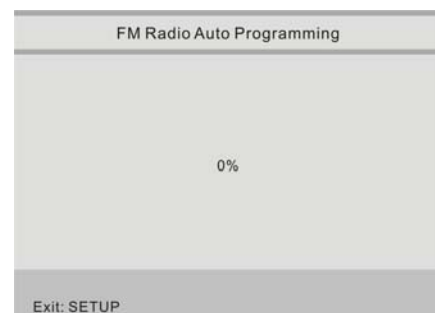


IMPORTANT: The FM radio source must be enabled in the SOURCE SETUP menu before using the FM Radio menu.



Auto Program

1. Press the OK button.
2. Press the CH+/- or ▲/▼ direction buttons to select the FM Radio item. Then press the VOL+/- or ◀/▶ direction buttons to enter the FM Radio menu.
3. Press the VOL- or ▶ direction button and a Copy Service Level menu appears.
4. Press the CH+/- or ▲/▼ direction buttons to Confirm FM Radio Auto Program. (CH+/▲=Yes, CH-/▼=No). The TV will now search all available radio channels looking for signals and memorizing those radio channels that are active.
5. Press the SETUP button to return to FM Radio menu.



Add/Delete Stations

1. In the FM Radio menu, press the CH+/- or ▲/▼ direction buttons to select Frequency and press the VOL+/- or ◀/▶ direction buttons to select the frequency you wish to Add or Delete.
2. To delete a frequency from memory, press

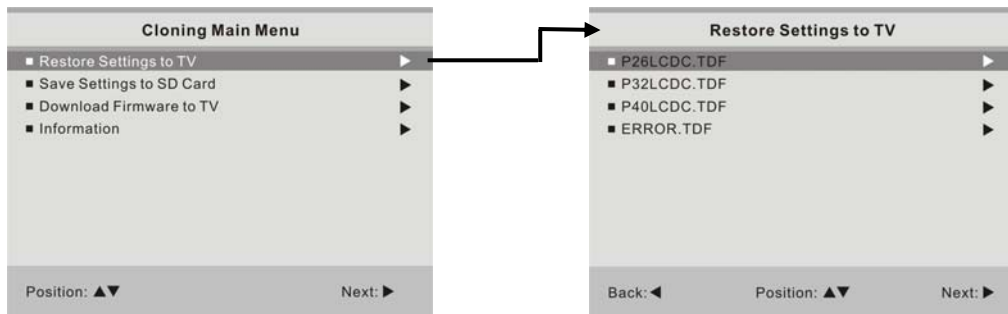
the CH+/- or ▲/▼ direction buttons to select Add/Delete.

3. Select off with the VOL+/- or ◀/▶ direction button to Add or Delete the frequency.
4. Press the SETUP button to return to the FM Radio menu.

Cloning Menu

The TV set has the clone function. An SD Card is essential. The SD card is blank except for an \UPGRADE folder; configuration setting files and firmware upgrade files are stored in this folder. The configuration setting file are in size of 20K and in format of TDF. The firmware upgrade files are in format of bin, ecc and txt.

Insert the SD card into the SD card slot on the TV and turn on the TV. The Cloning Main Menu will display on the screen.

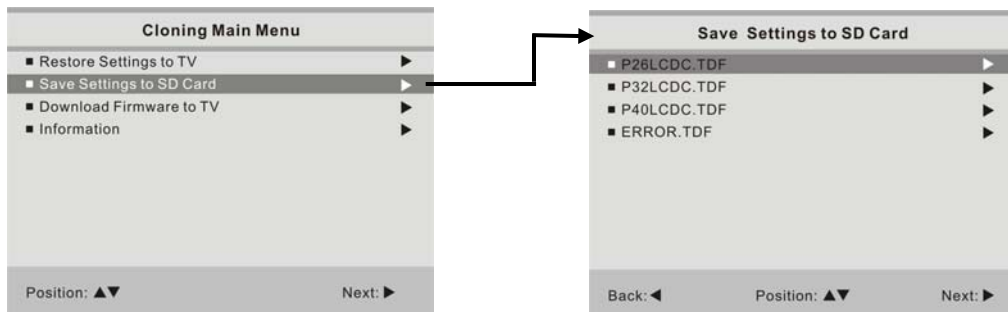


Restore Settings to TV

1. In the Cloning Main Menu, press the CH+/- or ▲/▼ direction buttons to select Restore Settings to TV item. Then press the VOL- or ► direction button to enter the sub-menu.
2. Press the CH+/- or ▲/▼ direction buttons to select desired file you want to restore. Press the VOL- or ► direction button and a confirm menu will appear.
3. Press the CH+ or ▲ direction button to confirm and start to restore the selected file.
4. Press the ◀ direction button to return to the previous menu.

Save Settings to SD Card

1. In the Cloning Main Menu, press the CH+/- or ▲/▼ direction buttons to select Save Settings to SD Card item. Then press the VOL- or ► direction button to enter the sub-menu.

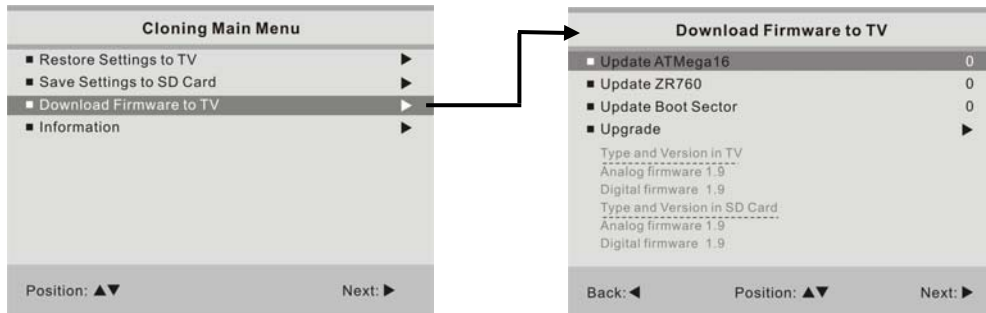


2. Press the CH+/- or ▲/▼ direction buttons to select desired file you want to save to SD card. Press the VOL- or ► direction button and a confirm menu will appear.
3. Press the CH+ or ▲ direction button to confirm and start to save the selected file.
4. Press the ◀ direction button to return to the previous menu.

Cloning Menu

Download Firmware to TV

1. In the Cloning Main Menu, press the CH+/- or ▲/▼ direction buttons to select Download Firmware to TV item. Then press the VOL- or ► direction button to enter the sub-menu.



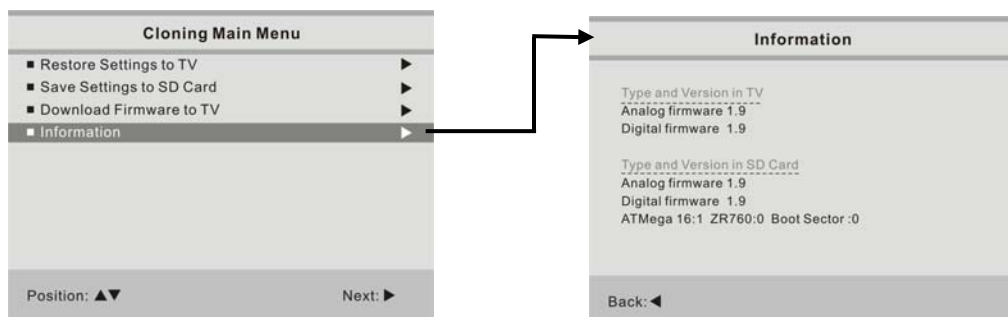
2. Press the CH+/- or ▲/▼ direction buttons to select "Update ATmega16", "Update ZR760" or "Update Boot Sector". Press the VOL- or ► direction button to select "0" for not upgrade and "1" for upgrade.
3. After you select the desired item you want to upgrade, press the CH+/- or ▲/▼ direction buttons to select "Upgrade" item and press the VOL- or ► direction button and a confirm menu will appear.
4. Press the CH+ or ▲ direction button to confirm and start to upgrade the selected item.
5. Press the ◀ direction button to return to the previous menu.

Notes:

- ✧ If you want to activate the item "Update Boot Sector", the item "Update ZR760" must be set to "1".
- ✧ During upgrading, the power indicator will blink. When the upgrade is over, the power indicator will be red. If the upgrade is fail, the power indicator will be OFF.
- ✧ After "Update ZR760" is over, it is necessary to unplug and re-plug the TV to AC power.
- ✧ During the process of "Update Boot Sector", the power cannot be cut off.

Information

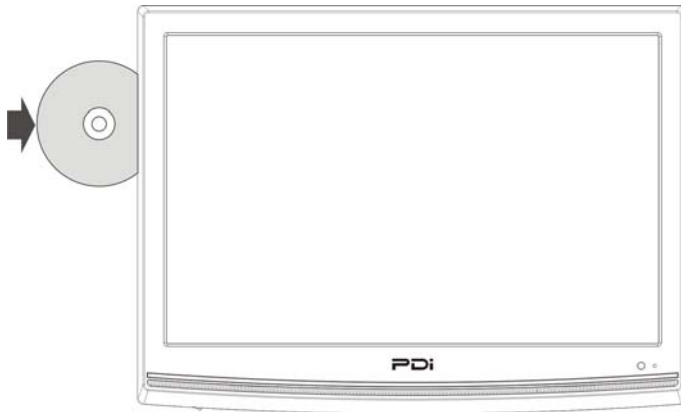
1. In the Cloning Main Menu, press the CH+/- or ▲/▼ direction buttons to select Information item. Then press the VOL- or ► direction button to check the type and version in TV and SD Card.



2. Press the ◀ direction button to return to the previous menu.

Preparation

1. Install the DVD module into the TV as detailed in Page 19.
2. Connect the module to the power supply and press the POWER button to turn on the unit.
3. Use the **TV/AV** button on the TV or remote to select DVD mode.
4. Gently insert the disc, with the label side toward the front of the television, into the disc tray slot.
5. The disc will be drawn into the unit and loaded automatically.



Warning: Use of poor quality discs could result in damage to the DVD module or television.

DVD Playback

Region Code

DVD players and discs are coded by region. These regional codes must match the played discs. If the codes don't match, the disc cannot be played. This player's default code is region 1.

Play

After loading a DVD disc, disc menu will appear on the screen if the disc includes the menu. Press the **▶ Play** button to start playback.

Stop

During playback, press the **■ Stop** button once to stop playback and then press **▶ Play** button to resume. Press this button twice to stop playback completely.

Pause

During playback, press the **⏸ Pause** button once to pause the playback; press it repeatedly to start step-by-step playback and press the **▶ Play** button to resume normal playback.

DVD Playback Operations

Previous and Next

During playback, press the ►► button to go to the next chapter. Press the ◀◀ button once to return to the beginning of the current chapter; press it twice to go to the previous chapter.

Fast Playback

During playback, press the ►► button to activate fast forward playback; press the ◀◀ button to activate fast backward playback. During fast playback, press the ► **Play** button to resume normal playback.

Repeat

Press the **Repeat** button repeatedly to repeat a chapter, title or entire disc.

Menu

Most discs have a menu, accessed on this DVD player via the **DVD Menu** button. Within the menu, use the direction buttons to highlight an item and press the OK button to confirm.

Title & Chapter

Normally there are several titles in a DVD disc and several chapters (sections) in a title. You can select any title or chapter by entering the relevant number.

Audio Language

There are up to 8 audio languages on a DVD disc. Press the **Audio** button to select audio language if the disc includes multi-audio languages.

Subtitle Language

The unit supports multi-subtitle languages function. Press the **Subtitle** button to select subtitle language if the disc includes multi-subtitle languages.

CD Playback

Play

After loading a CD disc, the unit will play all tracks on the disc by default. You can use the ◀◀►► button, or number buttons to select a track.

Stop

During playback, press the ■**Stop** button once to stop playback and then press ► **Play** button to resume. Press this button twice to stop playback completely.

DVD Playback Operations

Pause

During playback, press the **II Pause** button once to pause the playback and press the **▶ Play** button to resume normal playback.

Previous and Next

During playback, press the **▶▶** button to go to the next track. Press the **◀◀** button once to return to the beginning of the current track; press it twice to go to the previous track.

Fast Playback

During playback, press the **▶▶** button to activate fast forward playback; press the **◀◀** button to activate fast backward playback. During fast playback, press the **▶ Play** button to resume normal playback.

Repeat

Press the **Repeat** button repeatedly to repeat a single track, all tracks, or to exit repeat mode. Some discs do not support the repeat function.

Audio

During playback, press the **Audio** button to toggle audio output between Mono Left, Mono Right, Mix-Mono or Stereo.

JPEG Playback

JPEG is a common format for pictures and digital photographs. The DVD module is capable of displaying JPEG images stored on a DVD or CD disc.

Play

After loading a JPEG disc, a root menu appears on the screen. Use the **OK** button and the direction button to select a submenu, and then use the **▲▼** button to select the contents.

Note that some discs have JPEG and other content.

Stop

Press the **■ Stop** button to stop playback and return to the preview menu and press the **▶ Play** button to resume normal playback.

Pause

During playback, press the **II Pause** button to pause playback and press the **▶ Play** button to resume normal playback.

DVD Playback Operations

Repeat

During playback, press the **Repeat** button repeatedly and the repeat mode shift among Shuffle, Random, Single, Repeat One, Repeat All and Repeat Off.

Previous and Next

During playback, press the **⏮ ⏭** button to select picture.

Menu

During playback, press the **DVD Menu** button to return to the root menu.

Picture Rotation

During playback, press the **◀ ▶** button to rotate the currently displayed picture. This function only activates for the current picture; once another picture is displayed, rotation will be cancelled automatically.

- **Note: Some JPEG discs may not support the rotation function.**

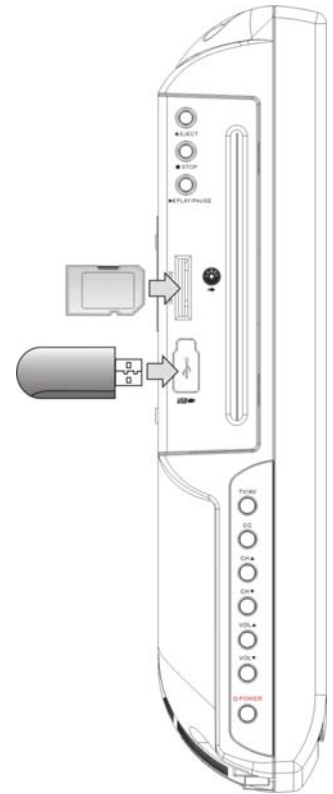
USB and SD/MS/MMC Card

Preparation

In DVD mode, connect an external USB device to the USB port or insert a SD/MS/MMC card into the SD/MS/MMC card slot on the right side of the optional DVD module.

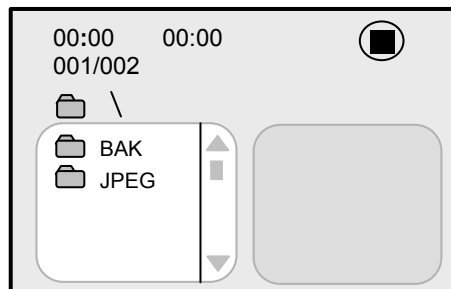
Note

- Make sure that files are stored on the USB device or the SD/MS/MMC card before connection.
- The rating of the USB port is 500MA.



File Playback

1. Press the **CARD** button to shift to desired mode and the screen will display the menu, as shown:



2. Press the **▲ ▼** button to select a folder and press the **OK** button to enter.
3. Press the **▲ ▼** button to select a file and press the **▶ PLAY** button to play.
4. During playback, press the **■ STOP** button to stop playback; press the **◀** button to return to the folder menu.

Note

- Screen display and contents can vary significantly from disc to disc.
- After the external USB device or SD/MS/MMC card is disconnected or removed from the unit, the unit will revert to normal disc playback mode.

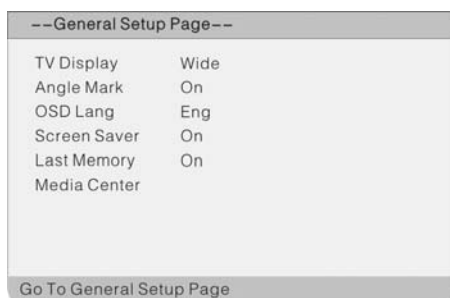
DVD System Setup

Preparation

1. In DVD mode, press the **SETUP** button to open DVD setup menu.
2. Press the ◀ ▶ button to select the Setup menu
3. Press the **SETUP** button again to exit the DVD setup menu.

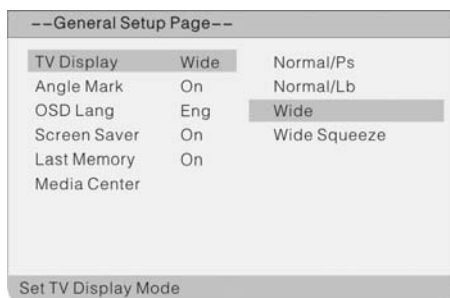
General Setup Page

Press the **SETUP** button to enter the General Setup Page, as shown:



1. Within this menu, press the ▲ ▼ button to select an item.
2. Press the **OK** button to enter.
3. Press the ◀ button to return.

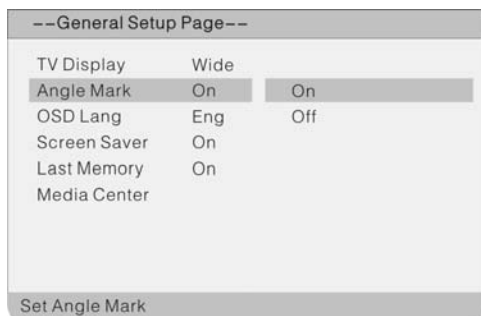
TV Display



1. Press the ▲ ▼ button to select **TV Display**.
2. Press the **OK** button to enter the setup.
3. Press the ▲ ▼ button to select the desired item.
4. Press the **OK** button again to confirm selection and return to the previous menu.

Note: “Normal/Ps” and “Normal/Lb” are available only when “HD Mode” is set to “Off”.

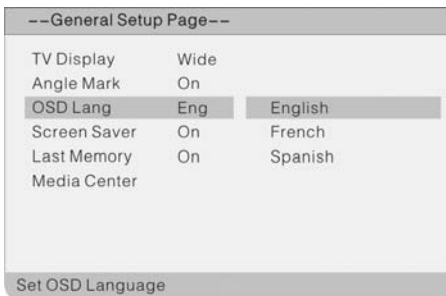
Angle Mark



1. Press the ▲ ▼ button to select **Angle Mark**.
2. Press the **OK** button to enter the setup.
3. Press the ▲ ▼ button to select On or Off.
4. Press the **OK** button again to confirm selection and return to the previous menu.

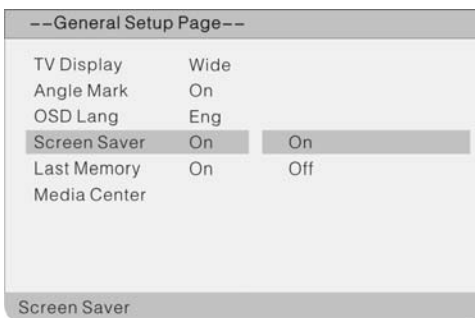
DVD System Setup

OSD Lang



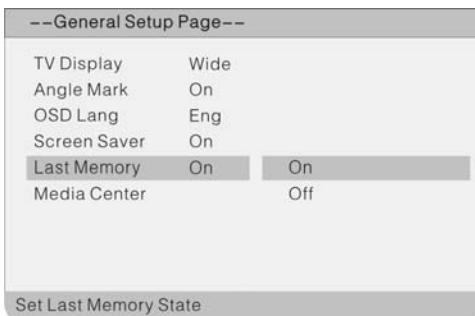
1. Press the **▲ ▼** button to select **OSD Language**.
2. Press the **OK** button to enter the setup.
3. Use the **▲ ▼** button to select the desired language.
4. Press the **OK** button again to confirm selection and return to the previous menu.

Screen Saver



1. Press the **▲ ▼** button to select Screen Saver.
2. Press the **OK** button to enter the setup.
3. Press the **▲ ▼** button to select On or Off.
4. Press the **OK** button again to confirm selection and return to the previous menu.

Last Memory



1. Press the **▲ ▼** button to select **Last Memory**.
2. Press the **OK** button to enter the setup.
3. Press the **▲ ▼** button to select On or Off.
4. Press the **OK** button again to confirm selection and return to the previous menu.

Media Center

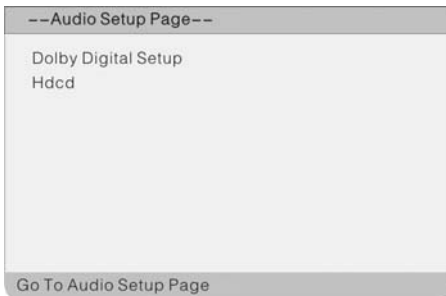


1. Press the **▲ ▼** button to select **Media Center**.
2. Press the **OK** button to enter the setup.
3. Press the **▲ ▼** button to select the desired item.
4. Press the **OK** button again to confirm selection and return to the previous menu.

DVD System Setup

Audio Setup Page

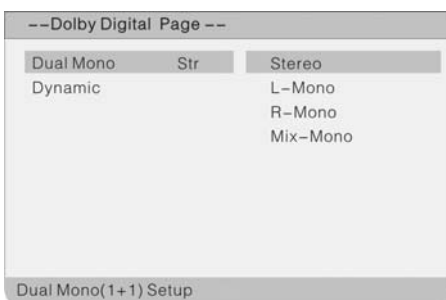
Press the **Setup** button to enter the General Setup Page and then press the ◀ ▶ button to select Audio Setup Page, as shown below:



1. Within this menu, press the ▲ ▼ button to select the item.
2. Press the **OK** button to enter.
3. Press the ◀ button to return.

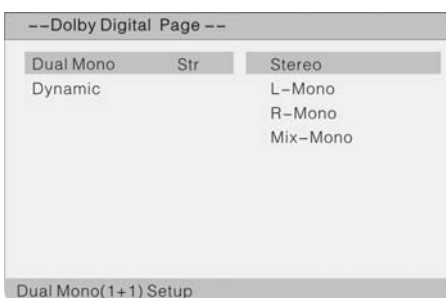
Dolby Digital Setup

On Audio Setup Page, press the ▲ ▼ button to select **Dolby Digital Setup** and press the **OK** button to enter the setup, as shown:



1. On this menu, press the ▲ ▼ button to select the item.
2. Press the **OK** button to enter.
3. Press the ◀ button to return.

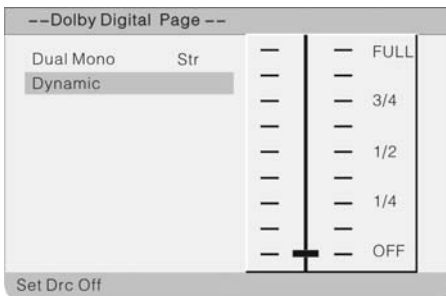
Dual Mono



1. Press the ▲ ▼ button to select **Dual Mono**.
2. Press the **OK** button to enter the setup.
3. Press the ▲ ▼ button to select the desired item.
4. Press the **OK** button again to confirm selection and return to the previous menu.

DVD System Setup

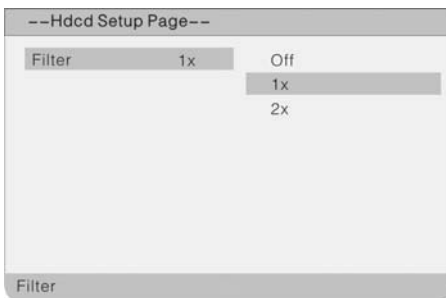
Dynamic



1. Press the **▲ ▼** button to select **Dynamic**.
2. Press the **OK** button to enter the setup.
3. Press the **▲ ▼** button to setup.
4. Press the **OK** button again to confirm setup and return to the previous menu.

HDCD Setup

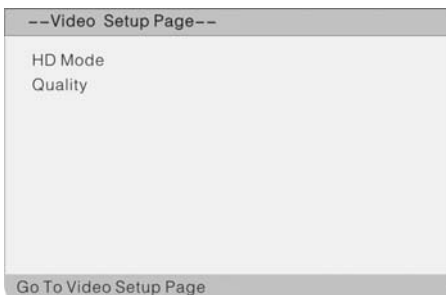
On Audio Setup Page, press the **▲ ▼** button to select **HDCD Setup** and press the **OK** button to enter the setup, as shown below:



1. Within this menu, press the **OK** button to enter the setup.
2. Press the **▲ ▼** button to select the desired item.
3. Press the **OK** button again to confirm selection and return to the previous menu.

Video Setup

Press the **Setup** button to enter the General Setup Page and then press the **◀ ▶** button to select Video Setup Page, as shown:

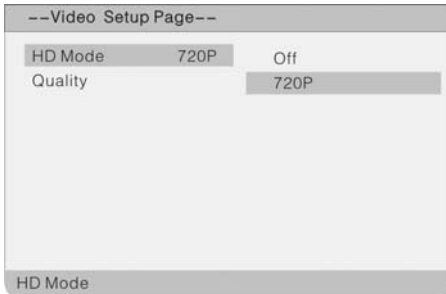


1. Within this menu, press the **▲ ▼** button to select the item.
2. Press the **OK** button to enter.
3. Press the **◀** button to return.

DVD System Setup

HD Mode

On Video Setup Page, press the **▲ ▼** button to select **HD Mode** and press the **OK** button to enter the setup, as shown:



1. Within this menu, press the **OK** button to enter the setup.
2. Press the **▲ ▼** button to select the desired item.
3. Press the **OK** button again to confirm selection and return to the previous menu.

Video Quality Setup

On Video Setup Page, press the **▲ ▼** button to select **Quality** and press the **OK** button to enter the setup, as shown:



1. Within this menu, press the **▲ ▼** button to select the item.
2. Press the **OK** button to enter.
3. Press the **◀** button to return.

Sharpness



1. Press the **▲ ▼** button to select **Sharpness**.
2. Press the **OK** button to enter the setup.
3. Press the **▲ ▼** button to select the desired item.
4. Press the **OK** button again to confirm selection and return to the previous menu.

DVD System Setup

Brightness



1. Press the **▲ ▼** button to select **Brightness**.
2. Press the **OK** button to enter the setup.
3. Press the **◀ ▶** button to adjust the level.
4. Press the **OK** button again to confirm selection and return to the previous menu.

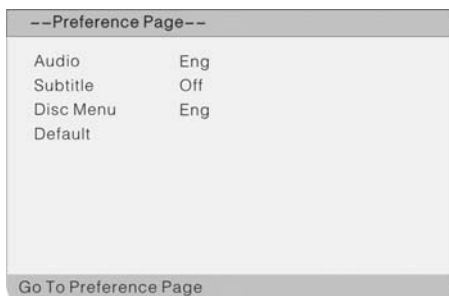
Contrast



1. Press the **▲ ▼** button to select **Contrast**.
2. Press the **OK** button to enter the setup.
3. Press the **◀ ▶** button to adjust the level.
4. Press the **OK** button again to confirm selection and return to the previous menu.

Preference Setup

Press the **Setup** button to enter the General Setup Page and then press the **◀ ▶** button to select the Preference Page, as shown:



1. Within this menu, press the **▲ ▼** button to select the item.
2. Press the **OK** button to enter.
3. Press the **◀** button to return.

Audio



1. Press the **▲ ▼** button to select **Audio**.
2. Press the **OK** button to enter the setup.
3. Press the **▲ ▼** button to select audio language.
4. Press the **OK** button again to confirm selection and return to the previous menu.

DVD System Setup

Subtitle



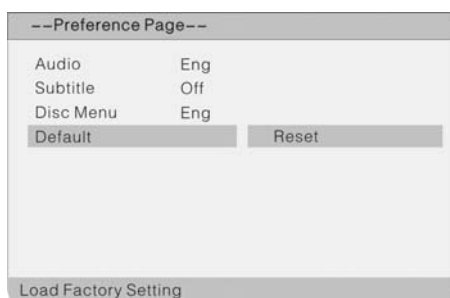
1. Press the **▲ ▼** button to select **Subtitle**.
2. Press the **OK** button to enter the setup.
3. Press the **▲ ▼** button to select subtitle language.
4. Press the **OK** button again to confirm selection and return to the previous menu.

Disc Menu



1. Press the **▲ ▼** button to select **Disc Menu**.
2. Press the **OK** button to enter the setup.
3. Press the **▲ ▼** button to select menu language.
4. Press the **OK** button again to confirm selection and return to the previous menu.

Default



1. Press the **▲ ▼** button to select **Default**.
2. Press the **OK** button to select **Reset**.
3. Press the **OK** button again to reset all DVD setup items to default status.

Specifications

Model	PDI- P19LCDC
Television system	DTV-ATSC (VSB, Clear QAM)/TV-NTSC
Television program	Air: 2~69 Cable HRC/IRC 1~125(NTSC) Air: 2~69 Cable Std 2~134 Cable HRC/IRC 1~134(ATSC/QAM)
LCD Panel	19" Diagonal TFT LCD
Panel Resolution	1440 x 900
External antenna impedance	75Ω
Audio output	2 @ 3-watt RMS
External IN/OUT ports	RF IN, COMPONENT, HDMI, PILLOW SPEAKER, S-VIDEO, PC RGB, CCI, MTI, COMPOSITE VIDEO
AC Power	100-240 V~50/60 Hz, 60 W
Dimension	458 × 184 × 373 mm (W x D x H)
Weight	About 8 Kg

* All rights reserved for technical modifications.

Troubleshooting

PROBLEM	CHECK
No Picture on Screen, No Sound from Speakers.	<ul style="list-style-type: none"> • Make sure the TV set is powered – Power indicator is Red. • Turn on the TV using the “POWER” button.
No Picture, Sound OK.	<ul style="list-style-type: none"> • Check the Brightness setting of the TV. • Internal LCD panel lamps may have failed. • If a secondary source is selected, verify the Video input signal is connected.
Picture OK, No Sound.	<ul style="list-style-type: none"> • Check the Volume settings. • Verify the Sound has not been muted. • Verify the pillow speaker is connected with the pillow speaker volume wheel adjusted for proper sound. • If a secondary source is selected, verify the audio input signal is connected.
No Sound from Internal TV Speakers.	<ul style="list-style-type: none"> • Verify TV speaker has not been disabled in the “Internal Speaker Disable” setup menu. • Verify the Sound has not been muted.
Picture is too Light.	<ul style="list-style-type: none"> • Verify correct color and contrast settings.
Picture is too Dark.	<ul style="list-style-type: none"> • Verify Brightness setting correct and not too low. • Internal LCD Panel lamps may have failed.
Remote Control does not work.	<ul style="list-style-type: none"> • Change the remote’s batteries. • Verify the TV’s IR window is not flooded with strong lights such as from fluorescent lamps. • For a Patient Remote, verify correct Bed Code settings.
Picture is not sharp. Picture moves or jitters.	<ul style="list-style-type: none"> • The cable TV signal may be weak. • Verify the coax cable is connected.
Picture has ghost images.	<ul style="list-style-type: none"> • The cable TV signal may be weak. • The coax cable connection may be loose.
Stripes or Dots move through picture.	<ul style="list-style-type: none"> • Possible interference from nearby hospital equipment. • The cable TV signal may be weak.

Limited Warranty

NOTE: Opening the TV set, or attempting a repair by non-PDI personnel will void the Warranty!

PDI Communication Systems Inc., ("PDI") warrants, to the original purchaser only, that this television will be free from defects in materials and workmanship, under normal use, for 2 years from the date of original purchase. This warranty does not cover any other equipment that may have been included with PDI's shipment of this product.

After receipt of written notice of a defect or malfunction occurring during the warranty period, PDI will repair or replace goods returned to its Springboro, Ohio location, at its discretion, free of charge to the original purchaser, the whole or any component part of any product manufactured by PDI and found by PDI to be defective.

As a condition to obtaining warranty service, written notification must be received by PDI within at least ten (10) days after defect is first observed. Repair of said product requires it to be shipped to the PDI factory in Springboro, Ohio. All shipments shall be F.O.B. Springboro, Ohio, and all shipping and freight charges to PDI's factory shall be paid by the customer.

This warranty shall not apply to any PDI products subjected to improper use, negligence or accident; nor to tampering, alterations, or repairs by others, without PDI's specific prior written authorization. For information regarding authorized servicing and all other information pertaining to this warranty, please contact PDI COMMUNICATION SYSTEMS at 40 Greenwood Lane, Springboro, Ohio 45066 or phone 937-743-6010.

This warranty gives specific legal rights and you may also have other rights which vary from state to state.

PDI's liability under this warranty is limited to repair or replacement of defective products and parts as provided above. PDI shall not be liable for incidental or consequential damages.*

The warranty contained herein is in lieu of all other expressed or implied warranties, including any implied warranty of merchantability or fitness for any particular purpose. PDI neither assumes nor authorizes any person to assume, on its behalf, any other obligation or liability.

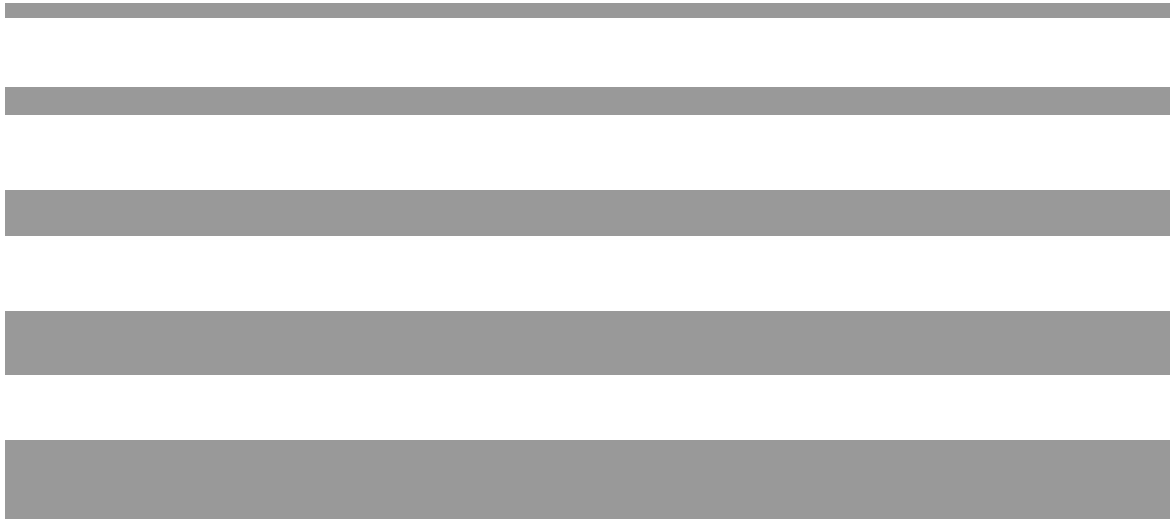
*Some states do not allow the exclusion of limitation of incidental or consequential damages or a disclaimer of warranties implied by law, so the above limitation or exclusion may not apply.



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