

Installation Operating Instructions

Hospital-Grade LCD Television Receiver



MODEL PDI-P15X

*Your Source for Healthcare and
Wellness Infotainment™*

PDi

Communication
Systems, Inc.
40 Greenwood Lane
Springboro, Ohio 45066

PH: 937-743-6010
FX: 937-743-5664

<http://www.pdiarm.com>

Graphical Symbols



This lightning flash with arrowhead symbol, within an equilateral is intended to alert the user of the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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

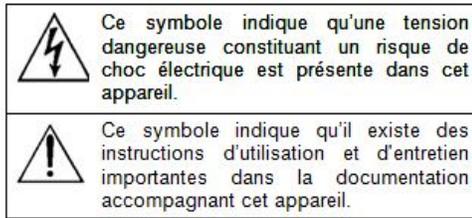
Important Safety Instructions

PLEASE READ AND KEEP THESE INSTRUCTIONS. OBSERVE ALL WARNINGS AND FOLLOW ALL INSTRUCTIONS CONTAINED IN THESE SAFETY INSTRUCTIONS AND THOSE ON YOUR TV. RETAIN THESE INSTRUCTIONS FOR FUTURE USE.

Electrical energy can perform many useful functions. This unit has been engineered and manufactured to assure your safety. However, improper use can result in potential electrical shock or fire hazards. In order not to defeat the safe-guards incorporated on this TV, observe the following basic rules for its installation, use and servicing. Your TV is fully transistorized and does not contain any user serviceable components. Removal of the cabinet cover may expose you to dangerous voltages. Refer all servicing to qualified service personnel.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. DO NOT use this TV near water. TV SHALL NOT be exposed to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the TV.
6. Clean only with dry cloth. For further cleaning, use a soft cloth or paper towel dampened with water.
7. To avoid damage from disinfectants to the surface of the TV, test a small portion of the TV's cabinet with any new disinfectant to verify that the disinfectant will not discolor or soften the enclosure.
8. DO NOT block any ventilation openings. Install in accordance with the manufacturer's instructions.
9. DO NOT install near any heat source such as radiators, heat registers, stoves, or other apparatus that produce heat.
10. DO NOT defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
11. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where it exits from the apparatus.
12. DO NOT use in an oxygen tent or oxygen chamber. Such use may cause a fire hazard
13. Only use attachments/accessories specified by the manufacturer.
14. 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.
15. Unplug this apparatus during lightning storms or when unused for long period of time.
16. 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.





Danger chute d'objets



AVERTISSEMENT: Afin d'éviter toute blessure, cet appareil doit être solidement fixé au sol/mur conformément aux instructions d'installation. Les télévisions peuvent présenter un risque de heurt lorsqu'elles sont montées en position élevée. Utiliser uniquement des supports de montage, des bras de support et le matériel approprié de PDi afin d'assurer que la télévision ne tombe pas de sa position de montage. Le non-respect de ces instructions peut causer des blessures ou la mort.

Pluie et humidité



AVERTISSEMENT: Afin d'éviter les risques d'incendie ou de choc électrique, NE PAS exposer cette télévision à la pluie ou à l'humidité ou l'utiliser dans un endroit humide.

Environnement d'oxygène



AVERTISSEMENT: Ne pas utiliser dans une tente à oxygène ou chambre à oxygène. Une telle utilisation peut causer un risque d'incendie.

Copyright, Disclaimer, and Trademarks

COPYRIGHT

PDi Communication Systems, Inc. claims proprietary right to the material disclosed in this user manual. This manual is issued for user information only and may not be used to manufacture anything shown herein. Copyright 2014 by PDi Communication Systems, Inc. All rights reserved.

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

DISCLAIMER

The author and publisher have used their best efforts in preparing this manual. PDi Communication Systems, Inc. makes no representation or warranties with respect to the accuracy or completeness of the contents of this manual and specifically disclaims any implied warranties or merchantability or fitness for any particular purpose and shall in no event be liable for any loss of profit or any other damages. The information contained herein is believed accurate, but is not warranted, and is subject to change without notice or obligation.

TRADEMARKS

All brand names and product names used in this manual are trademarks, registered trademarks, or trade names of their respective holder. PDi is a registered trademark of PDi Communication Systems, Inc., Springboro, Ohio.

Regulatory Information

FCC

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Underwriters Laboratories



The model PDI-P15X Hospital Grade LCD TV is a specialized LCD TV and should be installed to National Electrical Code specifications.

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.

Installation Precautions

1. Any changes or modifications in construction of this television, which are not expressly approved by the party responsible for compliance, could void the user's authority to operate the equipment.
2. Use only a power source from a CSA Certified / UL Approved Class 2 Power Supply suitable for use in a Health Care Facility. This TV will operate on either DC or AC voltage, range 18 to 32 volts.
3. THIS INSTALLATION SHOULD BE MADE BY A QUALIFIED SERVICE PERSON AND SHOULD CONFORM TO ALL LOCAL CODES. READ AND FOLLOW THE SAFETY INSTRUCTIONS BEFORE ATTEMPTING THIS INSTALLATION.
4. NOTE TO CATV INSTALLER: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that 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 cable entry as practical.
5. COAX CABLE SPECIFICATION: Coax cable selection is critical when the TV is powered from a central power supply. Due to long coax cable runs encountered in hospital installations, coax cable employing a solid copper center conductor and copper shield is required. Cable run lengths MUST NOT exceed 150 feet. Required coaxial cable numbers include Alpha 9804C (non-plenum), Belden 9248 (non-Plenum), West Penn 806 (non-Plenum), or West Penn 25806 (Plenum), which have been tested with coax-powered televisions.
6. CLEANING: Clean the exterior of this television by removing dust with a lint-free cloth. For further cleaning, use a soft cloth or paper towel dampened with water. CAUTION: To avoid damage to the surface of the television, do not use abrasive or chemical cleaning agents.
7. DISINFECTING: Do not immerse this TV, rather clean with a soft damp cloth. To avoid damage to the surface of the television, test a small portion of the TV's cabinet with any new disinfectant to verify that the disinfectant will not discolor or soften the enclosure.
8. **WARNING:** To avoid the hazards of fire or electrical shock, DO NOT expose this television to rain or moisture.
9. **WARNING OXYGEN ENVIRONMENT:** Do not use in any oxygen tent or oxygen chamber. Such use may cause a fire hazard.



USE RECOMMENDED
COAX. USE OF ANY
OTHER CABLE
NUMBER IS NOT
RECOMMENDED.



Contents

About the P15X	2
Graphical Symbols	3
Important Safety Instructions	3
Copyright, Disclaimer, Trademarks	4
Regulatory Information	4
Installation Precautions.....	5
Installing TV on PDI-405C or 508C suspension arm	8
Earphone Operation	9
Remote Control	9
Control Panel.....	10
Menus	11
Service Levels	12
Picture	13
Brightness, Contrast, Color, Tint, and Sharpness.....	13
Color Temperature.....	14
PC Analog/HDMI and Component Input.....	14
Noise Reduction	14
Sound.....	15
Minimum Volume	15
Maximum Volume	15
Power on Volume	15
Internal Speaker Enabled	16
HDMI Audio Port.....	16
Composite/S-Video Sound Mode.....	16
Headphone Sound Mode	16
Channels	17
Signal	17
Auto Program	18
Add/Delete Channels.....	19
Clear Service Level.....	20
Copy Service Level.....	21
Parental Control.....	21
TV Rating.....	22
TV Parental Guideline Rating System	22
The sub-rating of TV rating.....	22
MPAA Rating	23
Motion Picture Association	23
Digital Rating and Digital/ Download New	23
Change Password	24
Aux. Block Source	24
Parental Lock Duration	24
Parental Lock.....	24
Power on Channel	25
Channel Memory Override.....	25
Channel Lock.....	25
Features	26
Power on Caption Mode	26
Auto Power On/Lock.....	26
Inactive Power Off (h:mm)	26
Caption Text Modes.....	26
Digital Captions	27
Digital Mode Time Setup.....	28
Diagnostics	29
Channel up Power Off	29
Channel to Other Source	29
Power on ARC Mode.....	30
On Screen Menu Language Selection	30
Sources.....	30
Power on Source	31
FM Radio.....	31
Auto Program	31
Add/Delete Stations.....	31
Connections	32
Accessing the connectors	32
Component, Composite In, HDMI, and S-Video connectors.....	32
Pillow speakers.....	32
VGA Connection	32
CCI and MTI connection	32
Cloning	33
Save Settings to USB	33

Restore Setting to TV	34
Information	35
Firmware	35
Appendix	38
Limited Warranty	39

Installing TV on arms

Installation for 405C or 508C Support Arm

The PDI-P15X TV is designed to attach to a wall mounted suspension arm capable of supporting a TV weighing 15 pounds. The single coaxial cable on top of the TV is used to supply low voltage AC or DC power (18 to 32 Volts) and the RF signal.



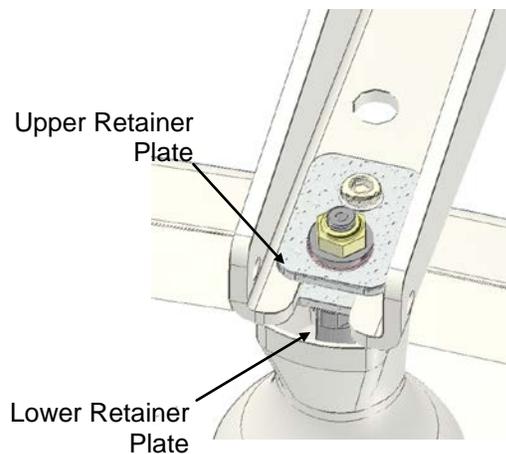
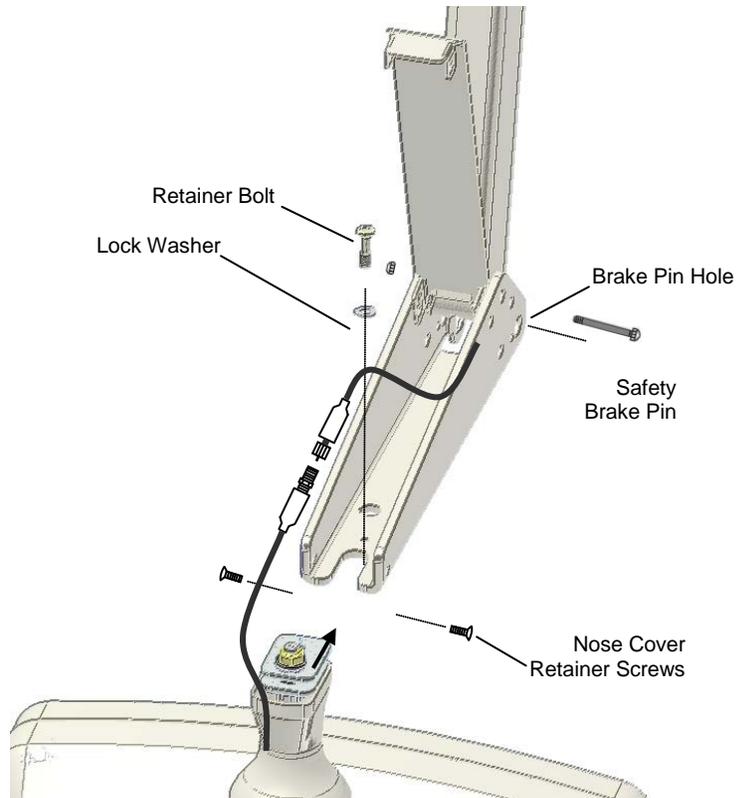
DANGER: ARM RECOIL HAZARD

The safety brake pin must remain in the SAFETY BRAKE PIN HOLE whenever the TV is removed from the arm or when the arm is removed from the wall bracket to prevent the arm from springing open.

1. Remove and save the Retainer Bolt and Lock Washer from the TV's swivel.
2. Remove the two Nose Cover Retainer Screws and raise the metal nose cover.
3. Slide the TV's swivel completely into the arm's clevis (slot) such that the Upper and Lower Swivel Plates sandwich the arm's nose. The nose of the support arm should rest between each plate.
4. Align the Retainer Plate's mounting hole over the arm mounting hole. Thread the Retainer Bolt with Lock Washer through the Top Retainer Plate, the arm's nose and then into the Lower Retainer Plate. Tighten.
5. The coax cable in the nose of the arm should be joined with the coax cable from the TV. Tighten the connection with a wrench and cover it by sliding the plastic boot sections into mating position.

IMPORTANT: Tightening this cable connection only with your fingers will result in reliability problems weeks or months later. Because the TV draws its power current through this connection, eventually the finger-tightened connection will loosen due to thermal cycling, develop resistance and prompt a service call. Tighten all "F" fitting connections with a wrench!

6. For **PDI-500** series arms remove the Safety Brake Pin from the Safety Brake Pin Hole, reattach the acorn nut to the pin, and store the assembly inside the nose of the arm by attaching it to the coax cable using the attached plastic clip. For **PDI-405** series arms remove the Safety Brake Pin from the Safety Brake Pin Hole and install thru rear mounting holes of the nose cover. Securely tighten. **DO NOT** store the pin inside the nose of PDI-405 series arms.
7. Close the metal nose cover onto the nose. Reinstall the two Nose Cover Retainer Screws.



Earphone Operation

Inserting an earphone in the earphone jack, located just below the left side of the control panel, will allow silent operation of the TV. The speaker will be shut OFF and all program audio will be available through the earphone. Remove the earphone to enable the internal TV speaker.

Change the Headphone Sound Mode to Mono or Stereo, depending on what type of headphones you are using. (See the Headphone Sound Mode instructions on page 16.)

Remote Control

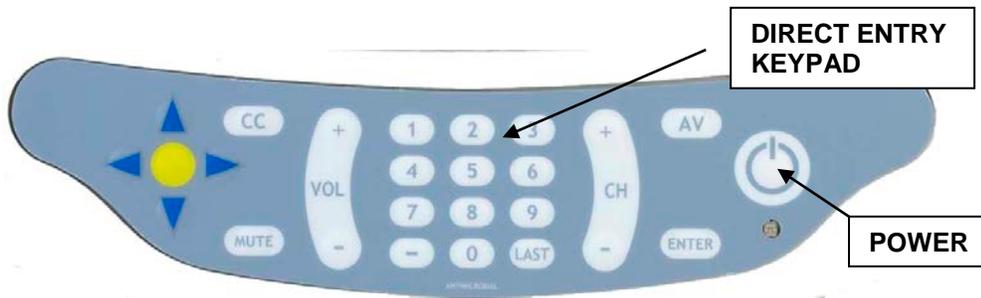
The P15X requires a programming remote control, part number PD108-420, to program it. You will NOT find a remote control packed with the TV. The remote control is an option and is sold separately.

The remote control has a limited range to prevent dual programming of an adjacent room TV. Stand within 3 feet from the front of the TV to use the remote control.

NOTE: There is not a Patient remote for the P15X.



Control Panel



The easy to clean membrane control panel located on the lower front of the TV contains large easy to read buttons.

BUTTON FUNCTION SUMMARY

POWER	Turns the TV ON or OFF.
VOLUME	Increase or decrease the TV volume.
CHANNEL	Changes the viewed channel up or down.
ENTER	Works like the OK button on programming remote, PD108-420. Press it after inputting a channel with the keypad.
MUTE	Mutes TV audio.
CC	Activates or deactivates closed captions.
AV	Switches through all enabled sources.
NUMBERS	Direct channel entry.
LAST	Returns to previous channel.

Menus

The P15X is programmed by a series of menus that can be accessed with a programming remote, part number PD108-420. These menus allow you to add TV channels, adjust the picture and sound, setup external components, and change other settings.



The SETUP menu is the first menu that appears when the SETUP button on the programming remote is pressed. All the other menus and all the settings can be accessed through it. This section explains and shows how to set up the different features of the P15X.

Service Levels

The P15X contains four separate Service Levels, allowing the hospital to offer either basic or enhanced viewing. The current service level can be quickly determined by accessing the Setup menu using the programming remote control. The service level can be changed to any of the 4 levels at any time by entering the Setup menu and changing the Service Level menu items.



DISABLED is like a mechanical key lock – when in *Disabled* service level, the TV can be turned OFF and ON, but cannot be used for viewing. A standard message appears on a black screen.

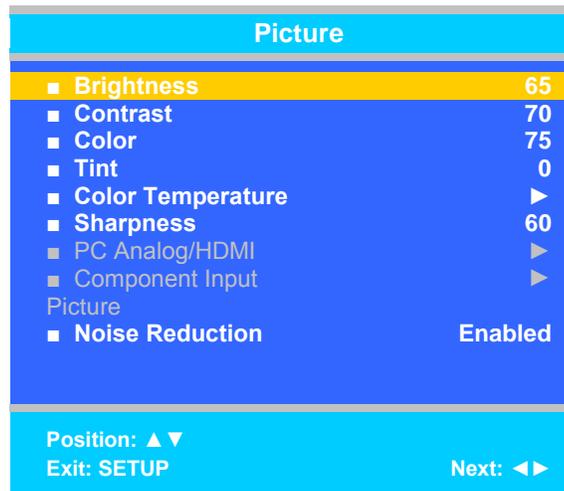
FREE lets patients watch hospital education and information channels without renting the TV. The channels containing programming for no charge are typically programmed into this level of service. This is the factory default setting for service level.

BASIC service typically allows additional channels beyond those offered in the FREE level.

PREMIUM is the highest Service Level with typically the most channels available for viewing.

Picture

This menu allows you to make changes to how the P15X's picture is displayed. You may also make changes to some devices that have been connected to the TV.



1. Press the SETUP button on the remote control.
2. Press ▲ or ▼ to highlight Picture.
3. Press ► to enter the Picture sub-menu.

Brightness, Contrast, Color, Tint, and Sharpness

These settings have a range of 1-100. To change one of them, simply change the number by following this process.

1. Enter the Picture menu
2. Press ▲ or ▼ to highlight the setting you want to change.
3. Press ◀ or ▶ to the desired number.
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Color Temperature

The color temperature adjusts the color balance of the picture. Standard, Reddish, Greenish, and Bluish are preset adjustments. You can customize the color temperature with the User setting.



1. Enter the Picture menu
2. Press ▲ or ▼ to highlight Color Temperature.
3. Press ► to enter it.
4. Press ▲ or ▼ to highlight and select one of the five settings.
5. On User, press ◀ or ▶ to highlight R,G, or B or to get out of the customized adjustments.
6. Press ▲ or ▼ to adjust R,G, or B
NOTE: When you select one of the three colors to adjust, the other two will turn grey.
7. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

PC Analog/ HDMI and Component Input Picture

PC Analog/HDMI and Component Input Picture are not active menu items until devices are connected to the HDMI, VGA, or component ports on the back of the TV and enabled with the programming menus. The two menu items allow you to make adjustments to the images generated by the devices connected to these ports. See the Appendix on page 38 if you want to make adjustments to the picture of one of the devices you have connected.

Noise Reduction

Additional picture improvement may be reached by enabling Noise Reduction.



1. Enter the Picture menu
2. Press ▲ or ▼ to highlight Noise Reduction.
3. Press ◀ or ▶ to select Enabled or Disabled.
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Sound

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



1. Press the SETUP button on the remote control.
2. Press ▲ or ▼ to highlight Sound.
3. Press ▶ to enter the Sound sub-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. Enter the Sound menu
2. Press ▲ or ▼ to highlight Minimum Volume.
3. Press ◀ or ▶ to select the desired number (0-100).
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Maximum Volume

Sets the maximum volume level the TV is allowed to reach.

1. Enter the Sound menu
2. Press ▲ or ▼ to highlight Maximum Volume.

3. Press ◀ or ▶ to select the desired number (0-100).
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Power on Volume

Sets the initial volume for when the TV is turned on.

NOTE: If Power on Volume is set to Last and the physical power is removed, the TV will power on with a volume of zero.

1. Enter the Sound menu
2. Press ▲ or ▼ to highlight Power on Volume.
3. Press ◀ or ▶ to select the desired number (0-100) or Last.
NOTE: Last will cause the TV to be at the last setting before it was turned off.
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Internal Speaker Enabled

The speaker's inside the TV's cabinet can be turned on or off for each TV Service Level.

NOTE: Sound to the earphone jack remains on at all times.

Sound	Internal Speaker Enable
■ Minimum Volume 25	■ TV Free Service Level Speaker Enabled
■ Maximum Volume 100	■ TV Basic Service Level Enabled
■ Power on Volume Last	■ TV Premium Service Level Enabled
■ Internal Speaker Enable ▶	■ Composite Video Enabled
■ HDMI Audio Port HDMI	■ S-Video Enabled
■ Composite/S-Video L+R	■ Component Enabled
Sound Mode	■ HDMI Enabled
■ Headphone Sound Mode Mono	■ PC-ANALOG Enabled
	■ FM RADIO Enabled
Position: ▲ ▼	Position: ▲ ▼
Exit: SETUP	Exit: SETUP
Next: ◀ ▶	Next: ◀ ▶

1. Enter the Sound menu
2. Press ▲ or ▼ to highlight the component or Service Level (Free, Basic, or Premium) you want to change.
3. Press ◀ or ▶ to select Enabled or Disabled.
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

HDMI Audio Port

The HDMI Audio Port has three settings: HDMI, PC, and Component. A device connected to the HDMI port can receive audio from one of these three sources

1. Enter the Sound menu
2. Press ▲ or ▼ to highlight HDMI Audio Port.
3. Press ◀ or ▶ to select HDMI, PC, or Component.
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Composite/S-Video Sound Mode

The settings are L+R, L+L, or R+R.

1. Enter the Sound menu
2. Press ▲ or ▼ to highlight Composite/S-Video Sound Mode.
3. Press ◀ or ▶ to select L + R, L+L, or R+R.
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Headphone Sound Mode

The earphone jack sound can be used with either a mono (single ear) or stereo (dual ear) style.

1. Enter the Sound menu
2. Press ▲ or ▼ to highlight Headphone Sound Mode.
3. Press ◀ or ▶ to select Mono or Stereo.
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Channels

The Channels menu allows you to program different signal sources into three of the Service Levels (Free, Basic, and Premium) and to add or delete individual channels. It also allows you to block certain channels, TV programs, movies, and auxiliary sources that can be input into the TV.

Setup	Channels
■ Service Level Free	■ Signal Cable STD
■ Picture ▶	■ Auto Program ▶
■ Sound ▶	■ Add/Delete Channels ▶
■ Channels ▶	■ Clear Service Level ▶
■ Features ▶	■ Copy Service Level ▶
■ OSD Language English	■ Parental Control ▶
■ Sources ▶	■ Power on Channel ▶
■ FM RADIO ▶	■ Channel Lock Disabled
	■ Channel Memory Override Enabled
Position: ▲ ▼	Position: ▲ ▼
Exit: SETUP	Exit: SETUP
Next: ◀▶	Next: ◀▶

1. Press the SETUP button on the remote control.
2. Press ▲ or ▼ to highlight Channels.
3. Press ▶ to enter the Channels sub-menu.

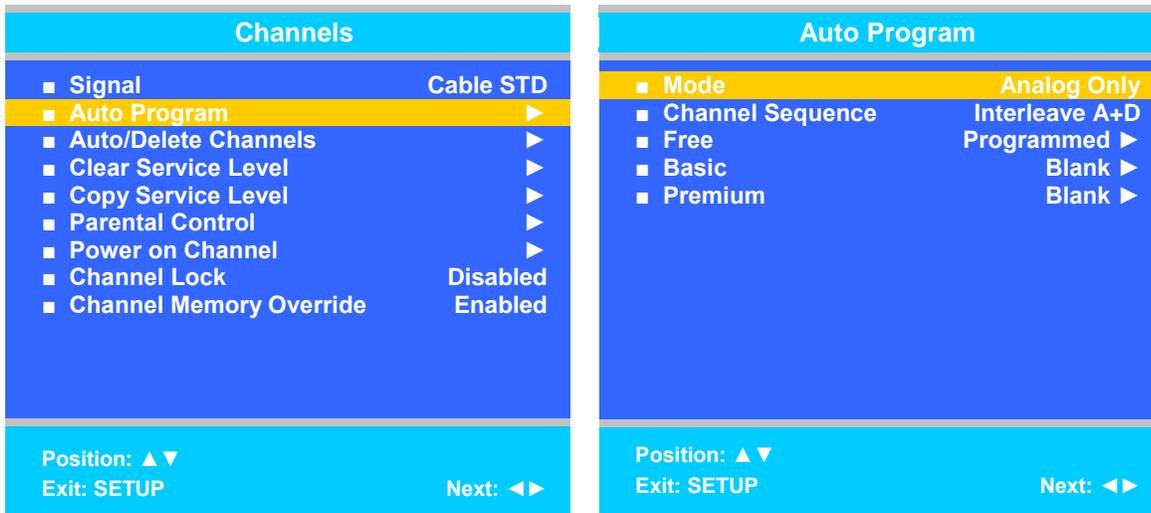
Signal

Four different tuning types are available depending upon the healthcare facilities signal type (Air, Cable STD, Cable IRC, or Cable HRC). Selection of the correct signal type is required for the TV to recognize all possible channels and before any channel programming can begin.

1. Enter the Channels menu
2. Press ▲ or ▼ to highlight Signal.
3. Press ◀ or ▶ to select Air, Cable STD, Cable IRC, or Cable HRC.
NOTE: Most hospitals use the Cable STD signal type.
4. Now perform Auto Program or Add/Delete Channels to adjust the channels.

Auto Program

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



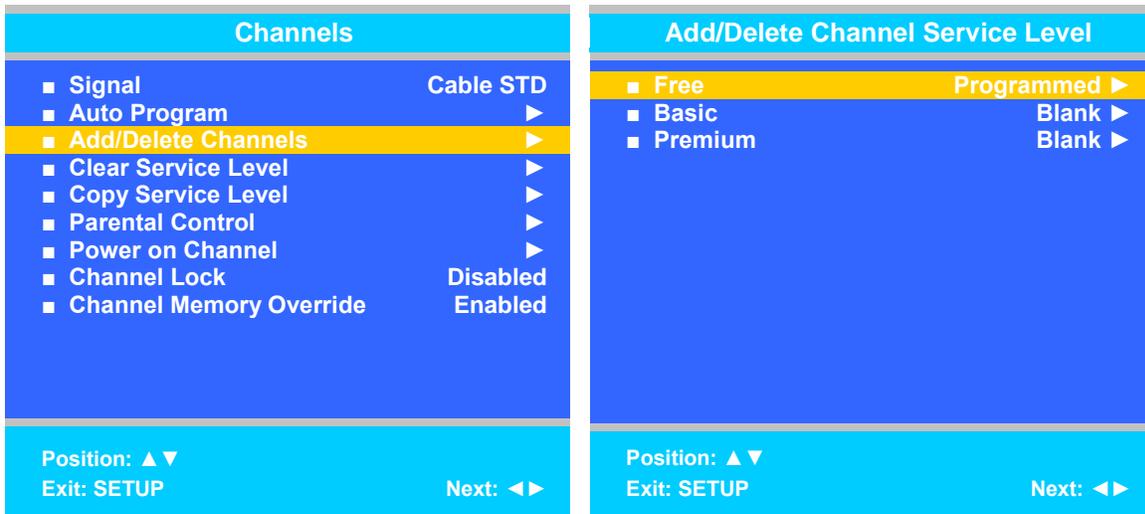
1. Enter the Channels menu
2. Press ▲ or ▼ to highlight Auto Program.
3. Press ▶ to select Auto Program
4. On Mode, press ◀ or ▶ to set the scope of channel scanning.
 - Analog Only: TV searches for analog channels only.
 - Digital Only: TV searched for digital channels only.
 - Analog and Digital: TV searches for both analog and digital channels.
5. Press ▲ or ▼ to highlight Channel Sequence.
6. Press ◀ or ▶ to set the Channel Sequence in which the channels are displayed.
 - Interleave A+D: In the order of channel number regardless of the system.
 - All A then D: Digital channels are displayed after all analog channels.
7. Press ▲ or ▼ to highlight the Service Level (Free, Basic, or Premium) you wish to program. The menu displays the current programming status of each level as either Programmed or Blank.

NOTE: A programmed service level also can be reprogrammed if desired.
8. Press ▶ to start auto programming.
9. A confirmation menu will appear before proceeding. Press ▲ to start auto programming. Press ▼ to cancel the operation. The TV now will search all available channels. Auto programming requires several minutes to complete.

NOTE: Digital channel auto programming may take longer than 10 minutes to complete.
10. Press SETUP to return to normal TV viewing.

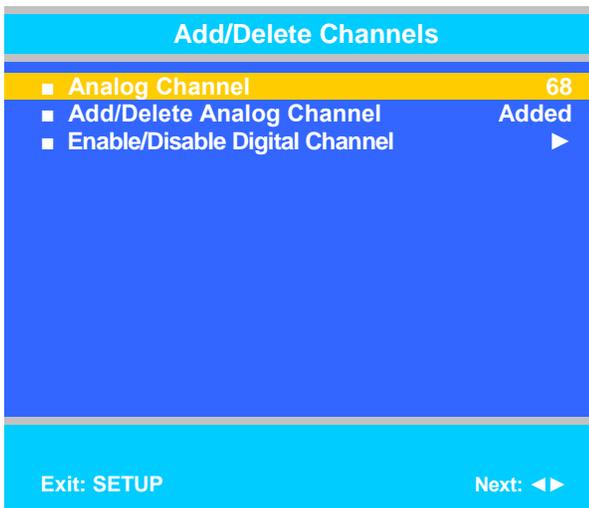
Add/Delete Channels

Individual analog TV channels that are missing can be manually added to a Service Level. Or, analog TV channels that require deletion can be manually removed from a Service Level. Digital channels found during auto programming can be enabled or disabled in each Service



Level.

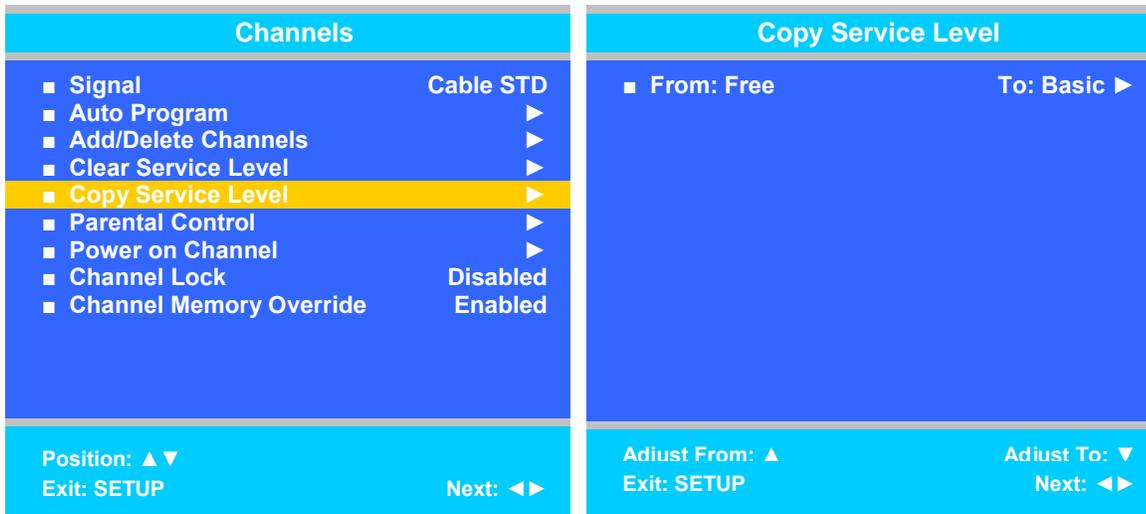
1. Enter the Channels menu
2. Press ▲ or ▼ to highlight Auto Add/Delete Channels.
3. Press ► to select it.
4. Press ▲ or ▼ to highlight the Service Level (Free, Basic, or Premium).
5. Press ► to select the highlighted Service Level.
6. If you want to add or delete an analog channel, press ◀ or ▶ to select Analog Channel. If you want to enable or disable digital channels, go to step 10.



7. After you have selected the desired analog channel, press ▲ or ▼ to highlight Add/Delete Analog Channel.
8. Press ◀ or ▶ to Added or Deleted to add or delete the analog channel
9. If you are done, p
10. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear. If there are more analog channels to be added or deleted, repeat steps 6 through 8. For enabling or disabling digital channels, go to the next step.
11. Press ▲ or ▼ buttons to highlight Enable/Disable Digital Channel.
12. Press ► to select Enable/Disable Digital Channel.
13. Press ▲ or ▼ to highlight the digital channel that needs to be enabled or disabled.

Copy Service Level

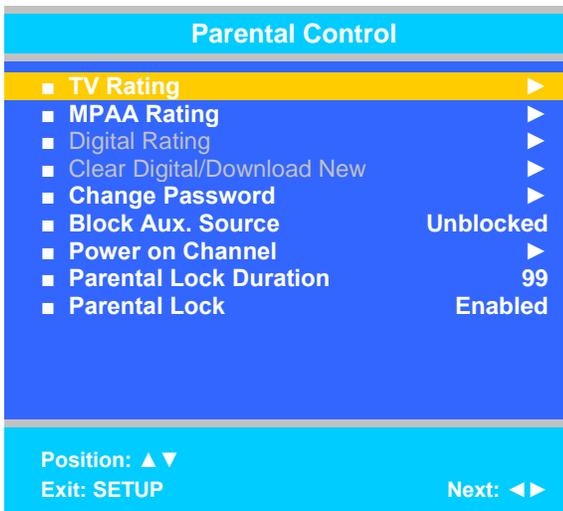
Copies one Service Level to another.



1. Enter the Channels menu
2. Press ▲ or ▼ to highlight Copy Service Level.
3. Press ► to select it.
4. Press ▲ to set the From Service Level. Press ▼ to set the To Service Level.
5. Press ► to copy the Service Level.
6. A confirmation page will appear. Press ▲ to proceed. Press ▼ or SETUP to cancel.
NOTE: After a Service Level is copied, the TV returns to the Copy Service Level menu.
7. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Parental Control

Parental Control allows you to block certain channels, TV shows, movies, and devices that are connected to the P15X.



1. Enter the Channels menu
2. Press ▲ or ▼ to highlight Parental Control.
3. Press ► to select it.

TV Rating

Most TV programs are 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.

NOTE: Categories that are rated for older audiences will be automatically blocked. If you block TV-Y category, then TV-Y7 will be blocked automatically. Similarly, if you block TV-G category, then TV-PG, TV-14 and TV-MA also will be blocked.

TV Rating	
	ALL FV V S L D
■ TV-Y	U
■ TV-Y7	U U
■ TV-G	U
■ TV-PG	U U U U
■ TV-14	U U U U
■ TV-MA	U U U

Position: ▲ ▼
Exit: SETUP
Next: ◀ ▶

1. From the Parental Control menu, enter the TV Rating menu.
2. Press ▲ or ▼ to move to one of the six age-based categories.
3. Press ◀ or ▶ to cycle through the sub-ratings (ALL, FV, V, S, L or D) or exit out of the sub-categories in that category.
NOTE: The U or B (unblocked or blocked) will turn red when it is highlighted
4. Press ▲ or ▼ to change the sub-rating.
5. Press the SETUP button to return to the previous menu. Or press ◀ to get out of the sub-category.

TV Parental Guideline Rating System

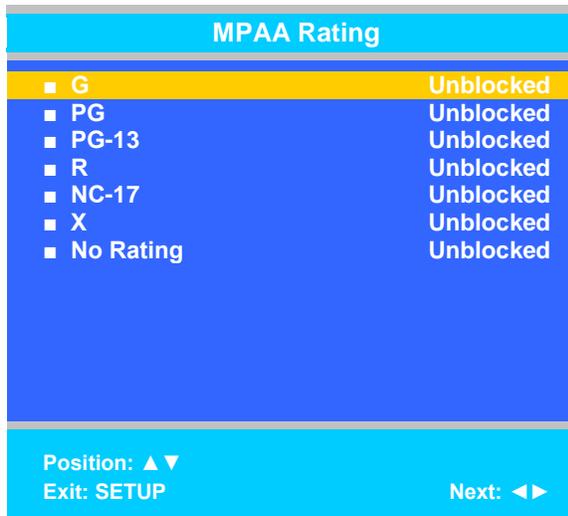
Grade	Meaning
TV-Y	Young Children Content not offensive to most viewers
TV-Y7	Children 7 and over Considered suitable for children over 7, may contain Fantasy Violence Scenes.
TV-G	Parental Audience Considered suitable for all audiences; children may watch unattended.
TV-PG	Parental Guidance Suggested 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.

The sub-rating of TV rating

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

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. From the Parental Control menu, enter the MPAA Rating menu.
2. Press ▲ or ▼ to highlight a particular MPAA Rating.
3. Press ◀ or ▶ to select Blocked or Unblocked.
 - Note:** Parental Control will automatically block any category that is rated for older audiences. For example, if you block the PG-13 category, then R, NC-17 and X will be blocked automatically also.
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Motion Picture Association of USA (MPAA) Rating System

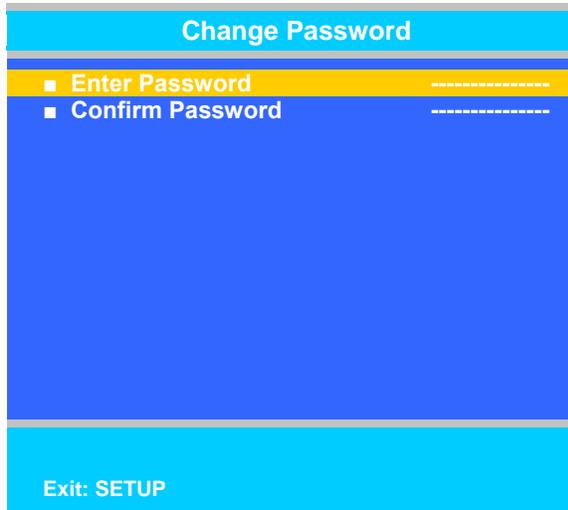
Grade		Meaning
G	General Audiences	Content not offensive to most viewers
PG	Parental Guidance Suggested	Content is such that parents may not want their children to view the program.
PG-13	Parental Strongly Cautioned	Program is inappropriate for preteens, with a greater degree of offensive material Suggested 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

Digital Rating and Clear Digital/Download New

This is part of the V-Chip system for controlling TV shows and movies.

Change Password

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



1. From the Parental Control menu, enter the Change Password menu.
2. Enter a new password by using the number buttons on the remote.
3. Confirm the password by entering the same digits.
NOTE: After confirming the password, the TV will return to the Parental Control menu.

Aux. Block Source

Like TV programs and channels, the auxiliary sources can be blocked too. When the TV encounters an external signal source that is not appropriate per its settings, a black screen appears with muted sound.

NOTE: Parental Lock must be enabled for the sources to be blocked.

1. In the Parental Control menu, press ▲ or ▼ to highlight Aux. Block Source.
2. Press ◀ or ▶ to select Unblocked or Blocked.
3. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Parental Lock Duration

This sets how long an enabled Parental Lock will be active.

1. In the Parental Control menu, press ▲ or ▼ to highlight Parental Lock Duration.
2. Press ◀ or ▶ to select the desired number of hours (1-99) or Always.
3. Press the SETUP button to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Parental Lock

This enables or disables the settings in the Parental Control menu. Enabling it will require the password to be entered to access the Parental Control menu in the future.

1. In the Parental Control menu, press ▲ or ▼ to highlight Parental Lock.
2. Press ◀ or ▶ to select Enable or Disable.
3. Press the SETUP button to return to the previous menu. To exit, press SETUP until the programming menus disappear.

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 Channel menu, press ▲ or ▼ to select the Power on Channel.
2. Press ► to enter it.
3. Press ▲ or ▼ to select the desired Service Level (Free, Basic, or Premium).
4. Press ◀ or ▶ to scroll through the channels currently available in the Service Level.
5. Select either a dedicated channel or Last for the last channel viewed by the patient.
6. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

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. In the Channels menu, press ▲ or ▼ to select the Channel Lock.
2. Press ◀ or ▶ to Enable or Disable the Parental Lock feature.
3. Press the SETUP button to return to the previous menu. To exit, press SETUP until the programming menus disappear.

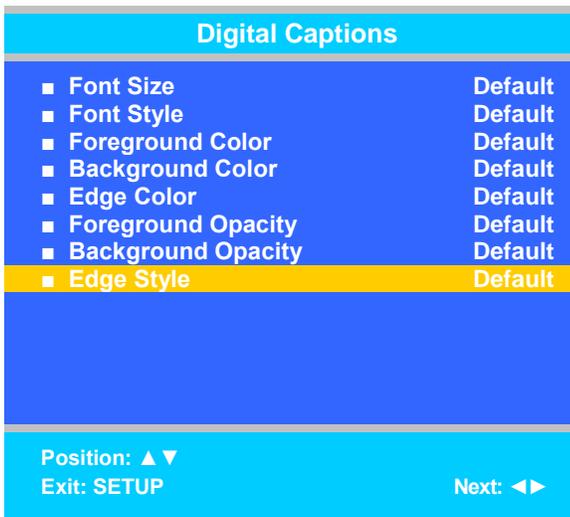
Channel Memory Override

Allows a channel to be entered with the control panel's number buttons that is not memorized in the current Service Level.

1. Enter the Channels menu
2. Press ▲ or ▼ to highlight Channel Memory Override.
3. Press ◀ or ▶ to select Enabled or Disabled.
 - DISABLED = Service Level Channels only.
 - ENABLED = All possible channels.
4. Press the SETUP button to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Digital Captions

Customization of Closed Captions on ATSC/QAM channels.

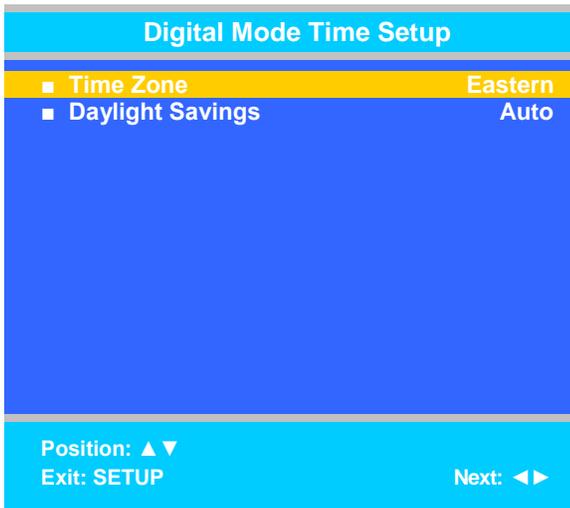


1. Press ▲ or ▼ to highlight Digital Captions.
2. Press ► to select it.
3. Press ▲ or ▼ to highlight the attribute you wish to change.
4. Press ► to change it. (See the chart below for the settings of each attribute.)
5. Press the SETUP button to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Attribute	Settings
Font Size	default, small, standard, large
Font Style	default, sizes 0 through 7
Foreground Color	default, white, black, red, green, blue, yellow, magenta, cyan
Background Color	default, white, black, red, green, blue, yellow, magenta, cyan
Edge Color	default, white, black, red, green, blue, yellow, magenta, cyan
Foreground Opacity	default, translucent, transparent, flashing, solid
Background Opacity	default, translucent, transparent, flashing, solid
Edge Style	Default, none, raised, depressed, uniform, left drop shadow, right drop shadow

Digital Mode Time Setup

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



1. Press ▲ or ▼ to select Digital Mode Time Setup
2. Press ► to enter it.
3. Press ◀ or ▶ to select your viewing area time zone: Pacific, Alaska, Hawaii, Newfoundland, Atlantic, Eastern, Central or Mountain.
4. Press ▲ or ▼ to select Daylight Saving.
5. Press ◀ or ▶ to select Auto, On or Off depending on whether or not your viewing area observes Daylight Saving time.
6. Press the SETUP button to return to the previous menu. To exit, press SETUP until the programming menus disappear.

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:** Firmware version of the input and output communication within the TV.
- Main Firmware VSN:** Main firmware version

1. Press ▲ or ▼ to select Diagnostics.
2. Press ► to enter.

3. Press the SETUP button to return to the previous menu. To exit, press SETUP until the programming menus disappear.

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. Press ▲ or ▼ to select Channel Up Power Off.
2. Press ◀ or ▶ to select Enabled or Disabled.
3. Press the SETUP button to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Channel to Other Source

External signal sources connected to the TV, such as DVD players or video-game systems, 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 "AV" button. Set this feature to Enabled to allow channel access to external devices.

1. Press ▲ or ▼ to select Channel To Other Source.
2. Press ◀ or ▶ to select Enabled or Disabled.
3. Press the SETUP button to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Power on ARC Mode

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

1. Press ▲ or ▼ to select Power on ARC Mode.
2. Press ◀ or ▶ to select 16:9, 4:3, Zoom, or Last.
3. Press the SETUP button to return to the previous menu. To exit, press SETUP until the programming menus disappear.

On Screen Menu Language Selection

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

1. Press the SETUP button on the remote control.
2. Press ▲ or ▼ to select the OSD Language menu.
3. Press ◀ or ▶ to select your desired language.



4. Press the SETUP button to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Sources

The TV's signal sources can be individually enabled or disabled. The available sources in this menu correspond with the components you have connected to the TV's connections. (See page 32 for a picture of connections.)

NOTE: Please disable all of the TV's sources that are not to be used. 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.



1. From the SETUP menu, press ▲ or ▼ select Sources.
2. Press ◀ or ▶ to enter.
3. Press ▲ or ▼ to select a source.
4. Press ◀ or ▶ to change the source status to Disabled, Enabled/APO, or Enabled/No APO as desired.
NOTE: Sources that are grayed out are not installed in the TV. For the TV source, Enable/APO (Auto Power Off) means the TV will turn off if there is no video.
5. Press the SETUP button to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Power On Source

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

1. Enter the Sources menu
2. Press ▲ or ▼ highlight Power On Source.
3. Press ◀ or ▶ to select to the source that you want the TV to power on to.
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 to the Last source selected.
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

FM Radio

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



Auto Program

This will search for active radio stations to program into the P15X's FM tuner.

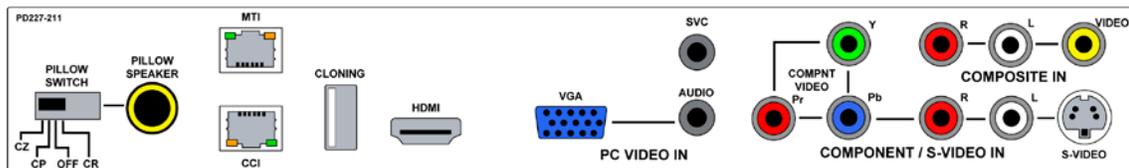
1. Press ▲ or ▼ to highlight FM Radio.
2. Press ► to enter it.
3. Press ▲ or ▼ to highlight Auto Program
4. Press ► to select it.
5. A confirmation page will appear. Press ▲ to proceed. Press ▼ or SETUP to return to the previous menu.

Add/Delete Stations

1. Press ▲ or ▼ to highlight Frequency.
2. Press ◀ or ▶ to select the frequency you wish to add or delete.
3. Press ▲ or ▼ to highlight Add/Delete.
4. Press ◀ or ▶ to select Added or Deleted.
NOTE: When you return to the normal viewing screen, a station you deleted will be playing. Press ▲ or ▼ to tune to another station. Now the station is deleted. You cannot go back to it.
5. Press the SETUP button to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Connections

You can connect several components to the P15X, including DVD players, video game systems, and MP3 players. The P15X also can be used as a computer monitor.



Accessing the connections

To access the connections remove the back panel by removing the three screws and lifting the cover off.



Component, Composite In, HDMI, and S-Video connectors

These connectors are easy to distinguish, making them simple to attach compatible cables to them. Before a connected device can be used, the source it is connected to must be enabled. See page 30 for instructions on enabling sources.

VGA Connection

The P15X can be a monitor for a computer. Enable PC-Analog in the Source menu. See page 30 for instructions on enabling sources.

CCI and MTI connections

CCI stands for Computer Controlled Interface. MTI works with LodgeNet.

Pillow speakers

The P15X can be operated with pillow speakers.



CAUTION: Confirm pillow speaker type and set the PILLOW 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.

1. Select the appropriate brand of digital pillow speaker using the recess slide switch next to the Pillow Speaker 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 CZ, CP or CR.

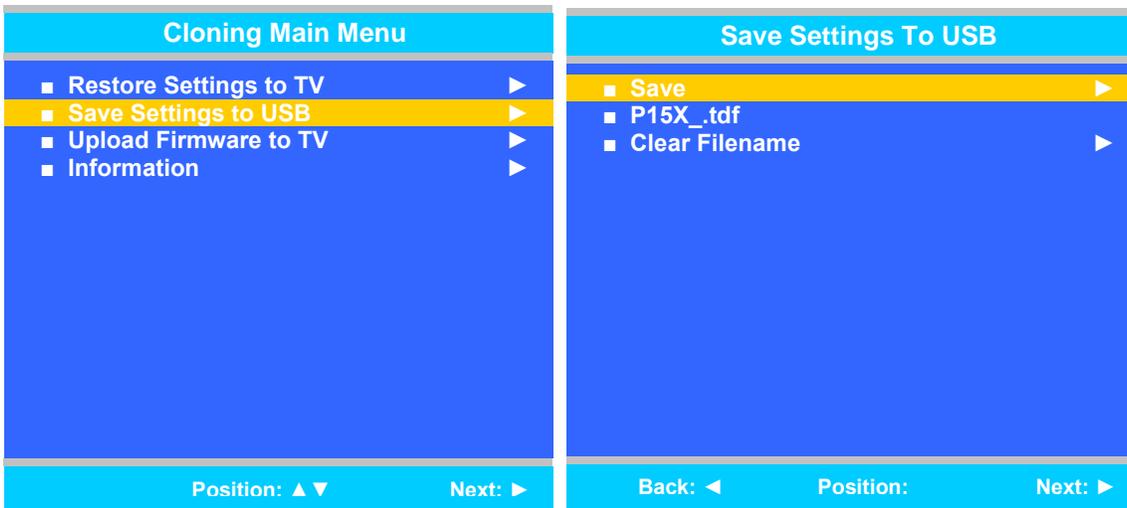
NOTE: The TV is shipped from the factory with the switch in the OFF position.
2. Connect the pillow speaker to the Pillow Speaker jack.
3. Operate the pillow speaker and verify correct control.

Cloning

Cloning allows quick programming of a TV from a USB thumb drive. Clone operation involves first downloading setup information from a programmed host TV to a USB thumb drive and then uploading the setup information to another TV. Cloning also can be used to re-program a programmed TV.

Save Settings to USB

1. Using a computer, create a directory titled "PDITDF" on a USB thumb drive.
2. Turn on the TV.
3. Insert the USB thumb drive into the cloning port in the back of the TV. (See connector diagram on page 32.) A Cloning Main Menu will appear.
4. Press **▲** or **▼** to highlight Save Settings to USB.
5. Press **▶** to display the Save Settings to USB menu.

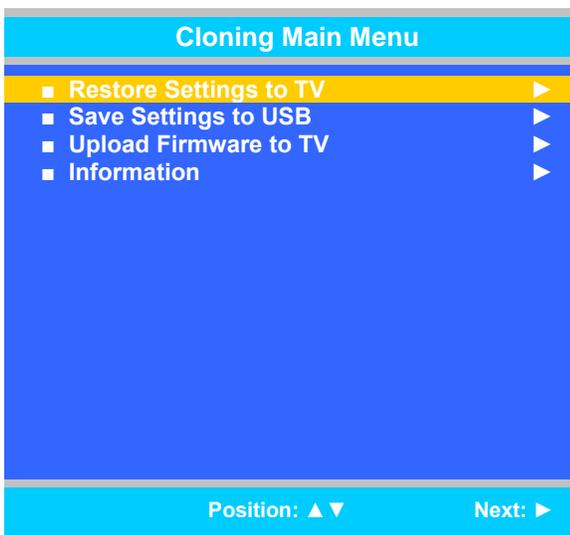


6. If you want to rename the file, press the **▲** or **▼** to highlight the file name. Otherwise go to step 7.
 - a. Press **◀** or **▶** to highlight each character
 - b. Press **▲** or **▼** to change each character
 - c. Repeat this process until you have the desired file name. Up to 8 characters may be used.
7. Highlight Save.
8. Press **▶** to download the TV's setup to the USB thumb drive. A progress screen will be displayed.
9. A confirmation screen will indicate completion of the saved file. Press **▶** to start the process. Press **◀** to return to the main Cloning menu.



10. Press ◀ to return to the Cloning Main Menu.
11. Remove the USB drive to return to normal TV operation.

Restore Setting to TV



1. Press ▲ or ▼ to highlight Restore Settings to TV.
2. Press ▶ to display a list of previously stored TV setups on the USB thumb drive.
3. Press ▲ or ▼ to highlight the desired setup file.
4. Press ▶ to select it.
5. A confirmation screen will appear. Press ▲ to restore the selected setup file or press ◀ to return to the previous menu without restoring. A progress screen will appear as the settings are restored.
6. The TV will return to normal viewing mode after restoring is complete.

Information

This allows you to check what version of firmware the TV is using.

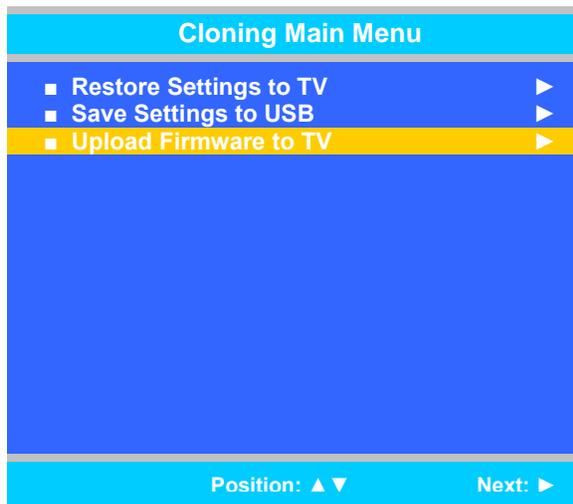


1. In the Cloning Main Menu, press ▲ or ▼ to highlight Information.
2. Press ▶ to display screen.
3. Press ◀ to return to the previous menu.

Firmware

The firmware for the model PDI-P15X TV is field upgradeable. A data file is written to a USB flash drive, connected to the TV's USB interface cable, and updated using the TV's menus. Once complete, the TV settings must be reprogrammed.

1. Insert a USB thumb drive into a computer.
2. Create a new folder on the drive called "PDITDF", if one does not already exist.
3. Open your web browser and go to <http://www.pdiarm.com/support/>.
4. Click on Firmware Updates.
5. Download the firmware you need and save it to your desktop.
NOTE: Please contact technical support if you have issues downloading the latest firmware.
6. Open the zip file you just downloaded and open the PDITDF folder on the USB drive.
7. Drag the firmware file to the PDITDF folder.
8. Remove the USB drive from the computer.
9. Insert it into the cloning port of the P15X. (See connections diagram on page 32.)
10. When the cloning menu appears, press ▲ or ▼ to highlight Upload Firmware to TV.
11. Press ▶ and an Upload Firmware to TV menu appear.



- Automatic uploads the latest version stored on the USB drive. If you have more than one firmware version, Digital Firmware allows you to choose the version. Press ▲ or ▼ to highlight the option you want.
- Press ► to select it.



- Press the ▲ direction button in the Automatic Upload Firmware to TV menu to begin uploading the new firmware. Or, in Upload Firmware to TV, press ▲ or ▼ to highlight the desired version of firmware. Then press ► in the Upload Firmware to TV menu to begin uploading the new firmware.
NOTE: The TV will take a few minutes to upload the new version of firmware. After the uploading process is complete, you may have to turn the TV off and then on to return to normal viewing mode.

Appendix

This section shows how to adjust the picture on devices that are connected to the HDMI, VGA, and component ports on the back of the TV.
NOTE: These instructions assume that you have connected the devices and enabled them.

Picture	
■ Brightness	65
■ Contrast	70
■ Color	75
■ Tint	0
■ Color Temperature	▶
■ Sharpness	60
■ PC Analog/HDMI	▶
■ Component Input	▶
Picture	
■ Noise Reduction	Enabled

Position: ▲ ▼
Exit: SETUP
Next: ◀ ▶

PC Analog/HDMI	
■ Temperature	6500K
■ Clock	70
■ Phase	0
■ ARC	16:9
■ H-Position	60
■ V-Position	60
■ Auto	

Position: ▲ ▼
Exit: SETUP
Next: ◀ ▶

Component Input Picture	
■ Temperature	6500K
■ Clock	70
■ Phase	0
■ ARC	16:9
■ H-Position	60
■ V-Position	60
■ Auto	

Position: ▲ ▼
Exit: SETUP
Next: ◀ ▶

1. Press TV/AV on the remote until the desired source appears on the screen (HDMI, PC-Analog, or component).
2. Press SETUP on the remote
3. Enter the Picture menu
4. Press ▲ or ▼ to highlight PC Analog/ HDMI or Component Input Picture.
5. Press ▶ to access it.
6. Press ▲ or ▼ to highlight the desired menu item
7. Press ◀ or ▶ to select the desired setting.
NOTE: The table on the next page describes the different settings.
8. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Adjustment	Description	Setting options	PC Analog/ HDMI or Component Input Picture
Temperature	Measure of the warmth of an image.	6500k or 9300k	both
Clock	Clock adjustment is used to minimize any vertical bars or stripes visible on the screen's background and horizontal screen size	0-100	PC Analog/ HDMI
Phase	The phase adjustment removes any horizontal noise and is helpful in sharpening text characters	0-100	PC Analog/ HDMI

ARC(Aspect Ratio Control)	Select the ratio of the screen size	4:3, 14:9, 16:9	both
V-Position (Vertical Position)	The H-Position moves the picture left or right across the screen.	0-100	both
H-Position (Horizontal Position)	The V-Position moves the picture up or down across the screen.	0-100	both

Limited Warranty

PDi Communication Systems Inc., ("PDi") warrants, to the original purchaser only, that the PDI-P15XLDC 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.

The information and technical data in this manual is believed accurate, but is not warranted and is subject to change without notice or obligation.

"PDi" is a registered trademark of PDi Communication Systems, Inc.

Copyright 2014 by PDI Communication Systems, Inc.

All rights reserved