

# Installation and Operating Instructions



## **P23 Hospital Grade TV Model: PDI-P23LCDD-NK/NKP**



Communication  
Systems, Inc.  
40 Greenwood Lane  
Springboro, Ohio 45066  
PH: 937-743-6010  
FX: 937-743-5664

<http://www.pdiarm.com>

*Better Solutions Are Within Reach®*

## WARNINGS



**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 important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



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.



### OVERHEAD FALLING HAZARD

TV can pose a striking hazard when mounted at an elevated position. Use only PDI mounting brackets, support arms, and appropriate hardware to assure TV will not fall from the mounted position. Failure to do so may cause injury or death.



### 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.

## 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.

## FCC

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential or commercial installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## 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. Spot test a new disinfectant by applying a test cleaning a non-obvious small spot on the TV's back cabinet, keypad, and LCD panel. Allow the disinfectant to soak per its instructions and then wipe clean. Do not use the disinfectant if the TV's surfaces show any sign of discoloration or softening.

### 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.

## 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 source such as radiators, heat registers, stove, or other apparatus (including amplifiers) that produces 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 period 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.*



## 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 2009 by PDI Communication Systems, Inc. All rights reserved.

## 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 to be accurate, but is not warranted, and is subject to change without notice or obligation.

## Trademarks

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

All other brand names and product names used in this manual are trademarks, registered trademarks, or trade names of their respective holder. PDI and Better Solutions Are Within Reach are registered trademarks of PDI Communication Systems, Inc., Springboro, Ohio.

## LOCATION GUIDELINES

The model PDI-P23LCDD Hospital Grade LCD TV is a specialized LCD TV. 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-P23LCDD 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-P23LCDD TV mounts to the wall typically 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-P23LCDD TV and PDI wall mount is 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-P23LCDD TV in the state of California.

## Energy Star

The PDI-P23LCDD TV is ENERGY STAR qualified in its factory default setting. PDI Communication, an Energy Star Partner, has determined that this product meets energy efficiency guidelines. Changes to certain features, settings, and functionalities of the TV can change the amount of power it consumes. The changes could possibly set the amount of power consumption beyond the limits required for ENERGY STAR qualification.



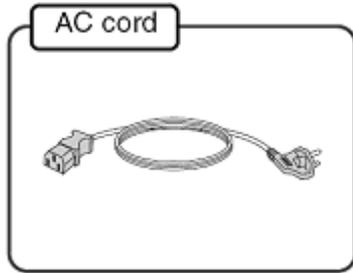
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## Product Accessories

(Included with TV)



(Not Included with TV)

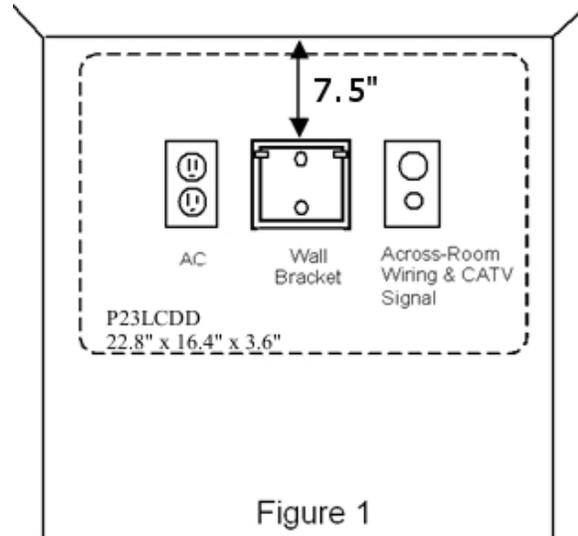
100mm VESA Wall Mount	PD168-103	¼" to 6-Pin Jumper Cable	PD106-416
Programming Remote Control	PD108-420	¼" to ¼" Jumper Cable	PD106-417
Patient Remote Control	PD108-421	TV Stand	PD133-645

## Wall Mounting

**NOTE:** *Across-Room Wiring may need to be completed before mounting TV. (See Across-Room Wiring diagram on page 9)*

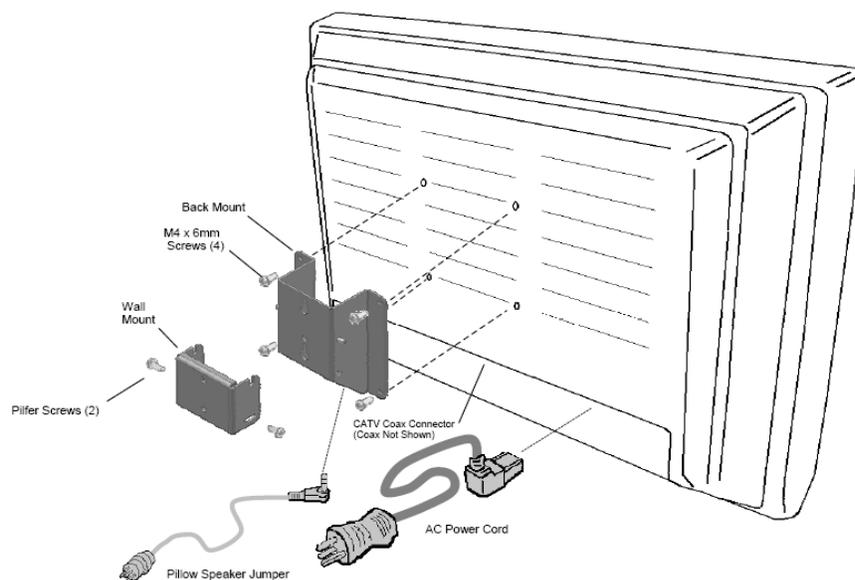
1. Refer to Figure 1. Select a location on the wall approximately 7 ½ inches below the ceiling.

**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).*



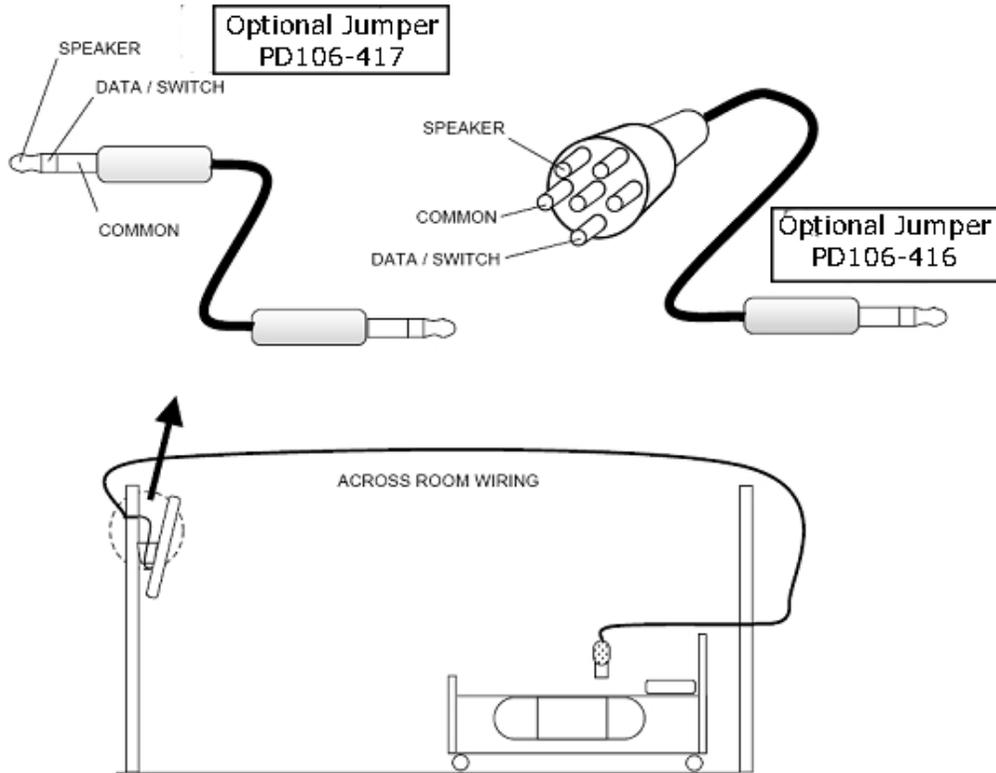
2. Refer to Figure 2. Position the Back Mount on the LCD TV cabinet. Attach with the four M4 screws that are provided.
3. Mate the Back Mount to the Wall Bracket making sure the pivot pins are retained in the "U" shaped slot. Using the pilfer security driver packed with the hardware, secure with two 10x32 pilfer screws.
4. Connect the AC power cord, Pillow Speaker Jumper Cable, and CATV Coax Cable. (See Pillow Speaker section on page 11 before connecting Jumper Cable)
5. The TV's tilt can be adjusted by loosening both Pilfer Screws, adjusting tilt, and then tightening the screws.

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 Speakers section on page 11 for details.



## Connections



### 1 AC INPUT

AC power cord connection.

### 2 A/V IN

Connect these outputs to the Audio/Video inputs of external equipment.

**NOTE:** Connections are color-coded.

### 3 S-VIDEO IN

If the external equipment you are connecting has an S-VIDEO jack, you can use an S-VIDEO cable for improved picture quality.

**NOTE:** Audio connections are color-coded.

### 4 COMPONENT2 IN and 5 COMPONENT1 IN

The TV supports two inputs for devices, such as a DVD that offer Component type signals.

**NOTE:** Some device's Y/Pb/Pr connections might be labeled as Y/Cb/Cr or Y/B-Y/R-Y. Connections are color-coded.

### 6 ANT

Connection to Cable TV Coax.

**NOTE:** See page 11

### 7 SVC

Service port.

### 8 PC ANALOG IN (D-SUB)

Connection to the video output jack on your PC. See resolutions in Appendix on page 42.

### 9 SPDIF

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

### 10 AUDIO OUT

Connection for external audio amplifier or speakers.

### 11 HDMI1 IN and 12 HDMI2 IN

Connection for HDMI devices.

### 13 USB PORT

Firmware upgrading and cloning purposes.

**NOTE:** See firmware updating and cloning instructions starting on page 37.

### 14 MTI

Used to connect to LodgeNet

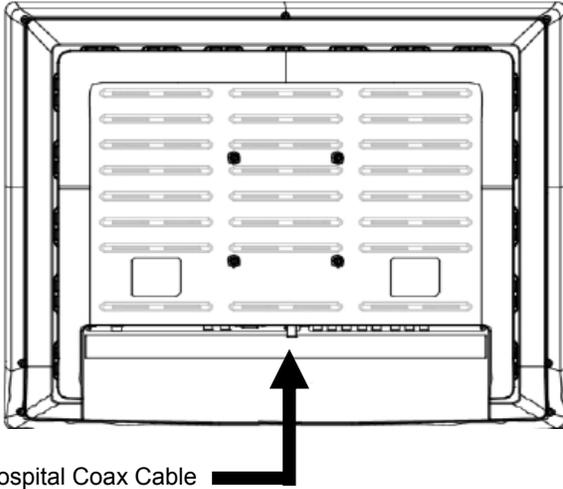
### 15 CCI

### 16 PILLOW

Pillow speaker port.

**NOTE:** See page 11 before connecting

## Antenna “ANT” Connection



Hospital Coax Cable



**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.

## Pillow Speakers

The pillow speaker (pendant control) jack is located on the TV's connector panel. Control of the TV using an externally 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 CZ, CP, or CR.



**CAUTION:** Confirm the 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 or cause improper operation of the TV.

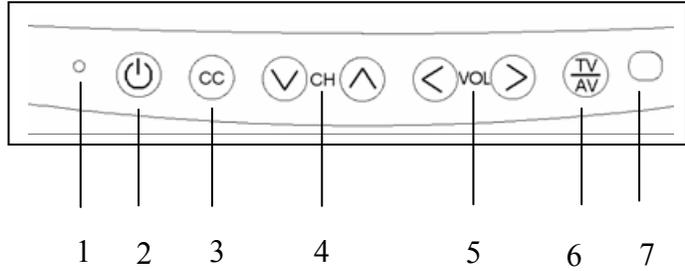
**NOTE:** The TV is shipped from the factory with the switch in the OFF position.

2. Connect the pillow speaker to the PILLOW jack.

3. Operate the pillow speaker and verify correct control.

## Buttons on TV

There are buttons on the front of the P23 that allow basic operation of the TV.



### 1 Power Indicator

Illuminates in red when the TV is off.  
Illuminates in green when the TV is switched on.

### 2 Power ON/OFF

Switches TV set on or off.

### 3 CC

Sets the closed caption function.

### 4 ▼ CH ▲ (Channel Down/Up)

Selects the previous/next channel. Used to navigate menus.

### 5 ◀ VOL ▶ (Volume Decrease/Increase)

Adjusts the volume. Used to navigate menus.

### 6 TV/AV

Selects the mode to watch TV or use a connected component.

### 7 Remote Control Sensor

Accepts the IR signal from the remote control.

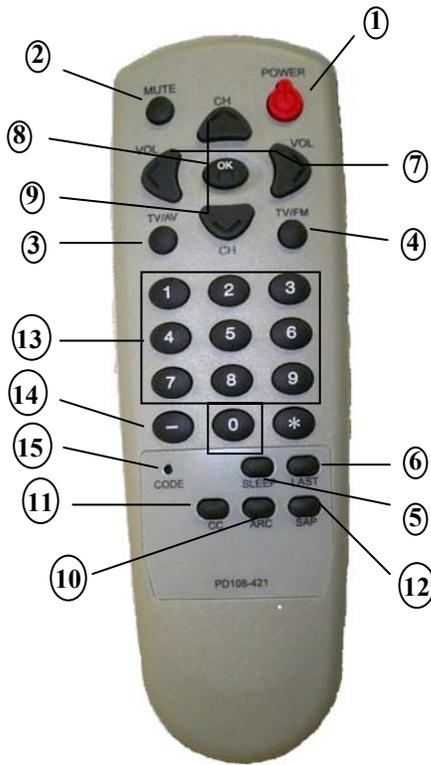
## Remote Control—PD108-420

A programming remote control is required to perform all TV setup adjustments including programming channels. The remote is **NOT** included with the TV and must be ordered separately – one remote is capable of programming an entire hospital of TVs. Please order programming remote control part number PD108-420.



1. **POWER button**  
Turns the TV on or off.
2. **MUTE button**  
Turns the sound on or off.
3. **SETUP button**  
Access programming menus.
4. **TV/AV button**  
Selects enabled external inputs or TV.
5. **CH LIST button**  
Display list of channels programmed into TV.
6. **TV/FM button**  
Switch between TV and FM Radio sources.
7. **SLEEP button**  
Sets the sleep timer.
8. **LAST button**  
Return to previously viewed channel.
9. **VOL ◀▶ buttons**  
Raises or lowers volume. Also used to navigate programming menus.
10. **OK button**  
Confirms the current channel selection.
11. **CH ▲▼ buttons**  
Selects next channel. Also used to navigate programming menus.
12. **ARC button**  
Changes the aspect ratio. Repeatedly press the ARC button to select your desired picture format. (See page 41 for instructions on adjusting picture up or down.)
13. **CC button**  
Cycles through Closed caption choices.
14. **PSM button**  
Adjust sound setting for content type: User, Standard, Dynamic, Mild, or Game.
15. **SAP button**  
Adjust audio mode: MTS-Stereo, Mono, or SAP
16. **SSM button**  
Adjust sound setting for content type: User, Flat, Speech, Movie, or Music.
17. **Number buttons**  
Use to directly enter channels. 0-9
18. **DASH button**  
Use to enter second part of a digital channel.
19. **Teletext buttons**  
Navigates teletext displays. Teletext is not actively used in the USA.

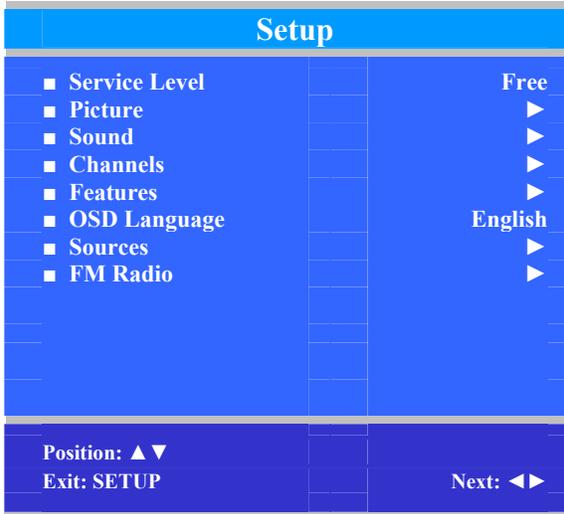
## Patient Remote-PD108-421



1. **POWER button**  
Turns the TV on or off.
2. **MUTE button**  
Turns the sound on or off.
3. **TV/AV button**  
Selects enabled external inputs.
4. **TV/FM button**  
Switches between TV and FM Radio sources.
5. **SLEEP button**  
Sets the sleep timer. Increments of 10 minutes; up to 120
6. **LAST button**  
Return to previously viewed channel.
7. **VOL ◀▶ buttons**  
Decreases or increases the volume.
8. **OK button**  
Confirms the current channel selection.
9. **CH ▲ ▼ buttons**  
Selects next or previous channel.
10. **ARC button**  
Changes the aspect ratio. Repeatedly press the ARC button to select your desired picture format. (See page 41 for instructions on adjusting picture up or down.)
11. **CC button**  
Cycles through Closed caption choices.
12. **SAP button**  
Adjust audio mode: MTS-Stereo, Mono, or SAP.
13. **Number buttons**  
Use to directly enter channels. 0-9
14. **DASH button**  
Use to enter second part of a digital channel
15. **CODE button**  
The remote offers independent Bed A or Bed B selectable codes and independent control of a single TV in a two TV room.  
Insert a paperclip in this hole to select Bed A or Bed B.

## Programming

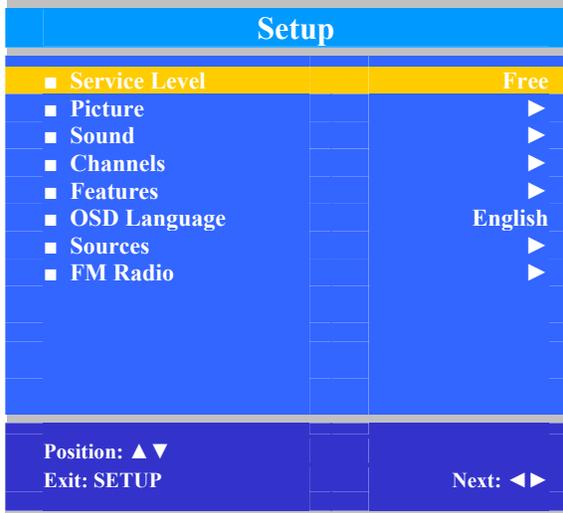
The PDI-P23LCDD TV is programmed by a series of menus that can be accessed with a programming remote, part number PD108-420. Access the menus by pressing SETUP on the remote. These menus allow you to add TV channels, adjust the picture and sound, setup external components, and change settings.



The SETUP menu is the first menu that appears. All the other menus and all the settings can be accessed through it. This manual explains and shows how to setup the different features of the PDI-P23LCDD TV.

## Service Levels

The P23 contains four separate Service Levels, allowing the hospital to offer either basic or enhanced viewing. The current Service Level can quickly be determined by accessing the SETUP menu using the remote control. The Service Level can be changed to any of the 4 levels at any time.



**DISABLED** – This is like a mechanical key lock – when in *Disabled* Service Level, the TV can be turned off and on, but it cannot be used for viewing. A standard message appears on a black screen.

**FREE** – This 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** – This service level typically allows additional channels beyond those offered in the FREE level.

**PREMIUM** – This is the highest service level with typically the most channels available for viewing.

## Picture

This menu allows you to make changes to settings that will change the picture's appearance.

Picture		
■ Brightness		65
■ Contrast		70
■ Color		75
■ Tint		0
■ Color Temperature		▶
■ Sharpness		60
■ PC Analog/HDMI Picture		▶
■ Component Input Picture		▶
■ Noise Reduction		Enabled
Position: ▲▼		
Exit: SETUP		Next: ◀▶

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

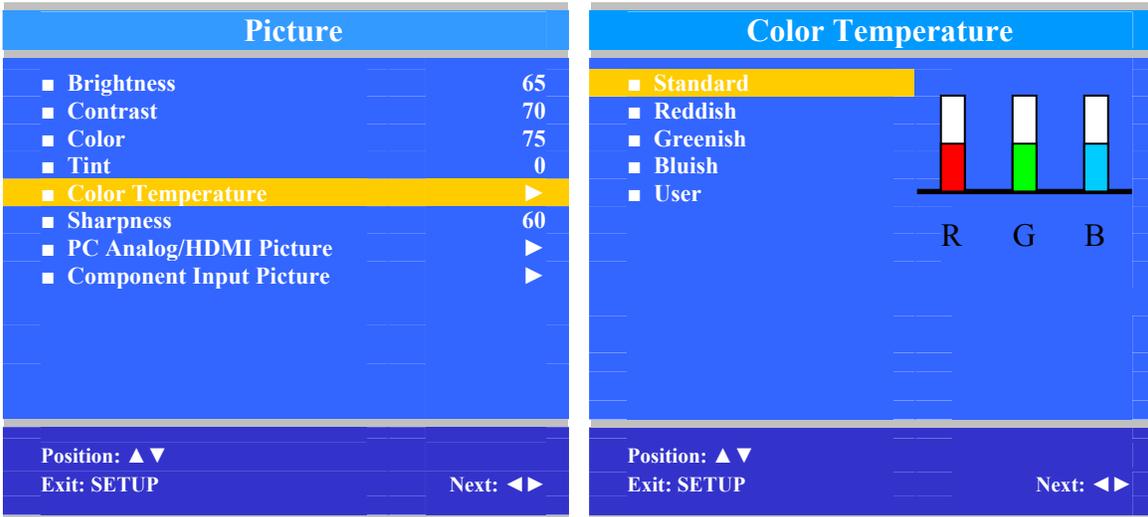
### Brightness, Contrast, Color, Tint, and Sharpness

These settings have a range of 1-100. To change one of them, 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 set the desired number.
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

## Color Temperature

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.



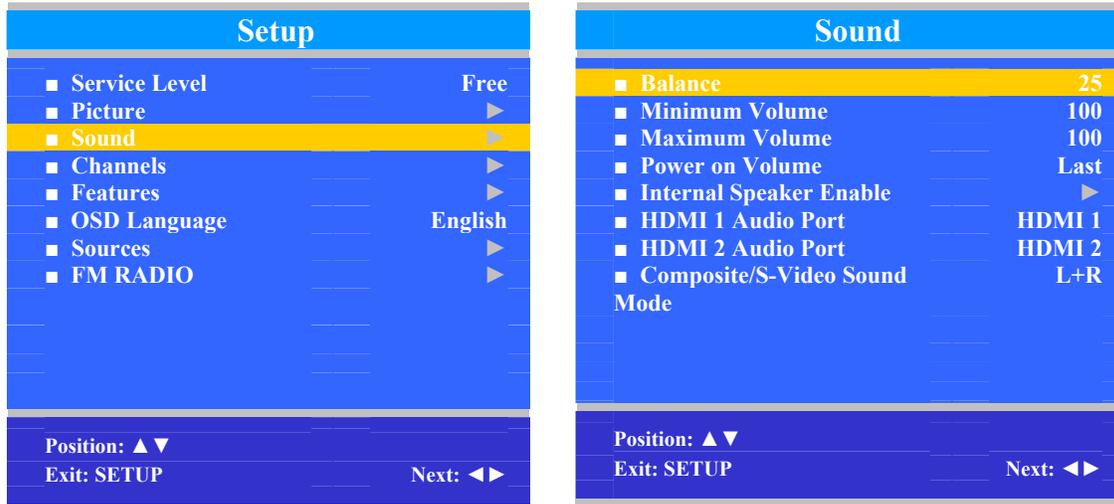
1. Enter the Picture menu
2. Press ▲ or ▼ to highlight Color Temperature.
3. Access the menu by pressing ▶.
4. Press ▲ or ▼ to highlight and select one of the five settings.
5. For User, press ◀ and ▶ to select R, G, or B or to get out of the customized adjustments.
6. Press ▲ or ▼ to adjust R,G, or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

## PC Analog/HDMI Picture and Component Input Picture

See page 41 for instructions on how to adjust the settings for these two menu items.

## Sound

The sound menu allows precise adjustment of several sound parameters.



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

### Balance

This controls how the sound is distributed between the left and right speakers.

1. Enter the Sound menu.
2. If Balance is not highlighted, press ▲ or ▼ to highlight it.
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.

### 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.

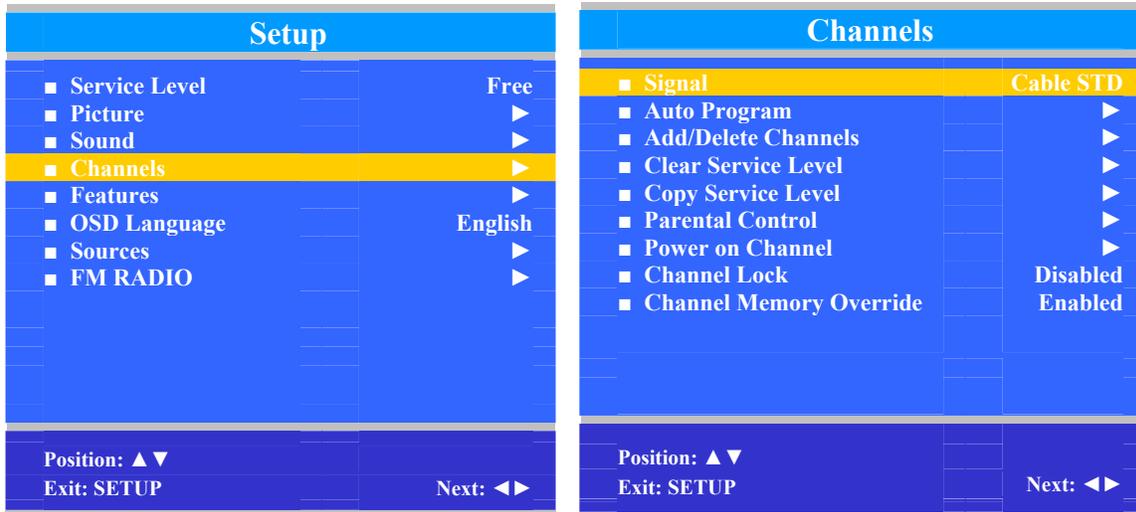
**NOTE:** *If Power on Volume is set to Last and the physical power was removed, the TV will power on with a volume of 0.*

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:** *Power On Level can only be set between Minimum Volume setting and Maximum Volume setting. Last will cause the TV to be at the last volume setting before it was turned off.*
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 Service Levels (Free, Basic, and Premium) and to add or delete individual channels. It also allows you to block channels, TV programs, movies, and auxiliary sources that can be input to the TV. Each Service Level contains a different channel map.



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 facility's signal type. 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 style.

4. Now perform Auto Program or Add/Delete Channels to store channels in the TV's memory.

## Auto Program

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

Channels		Auto Program	
■ Signal	Cable STD	■ Mode	Digital Only
■ Auto Program	▶	■ Channel Sequence	Interleave A+D
■ Auto/Delete Channels	▶	■ Add. Digital Signal	None
■ Clear Service Level	▶	■ Free	Programmed ▶
■ Copy Service Level	▶	■ Basic	Blank ▶
■ Parental Control	▶	■ Premium	Blank ▶
■ Power on Channel	▶		
■ Channel Lock	Disabled		
■ Channel Memory Override	Enabled		
Position: ▲ ▼		Position: ▲ ▼	
Exit: SETUP	Next: ◀ ▶	Exit: SETUP	Next: ◀ ▶

- After setting Signal, press ▲ or ▼ to highlight Auto Program.
- Press ▶ to select it.
- On Mode, press ◀ or ▶ to select 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.
- Press ▲ or ▼ to highlight Channel Sequence.
- Press ◀ or ▶ to select the channel sequence in which the channels are displayed.
  - Interleave A+D: Channels are displayed in the order of channel number.
  - All A then D: All digital channels are displayed after all analog channels.
- If you want to allow the TV to program additional digital channels, Press ▲ or ▼ to highlight Add. Digital Signal. Press ◀ or ▶ to select Air.

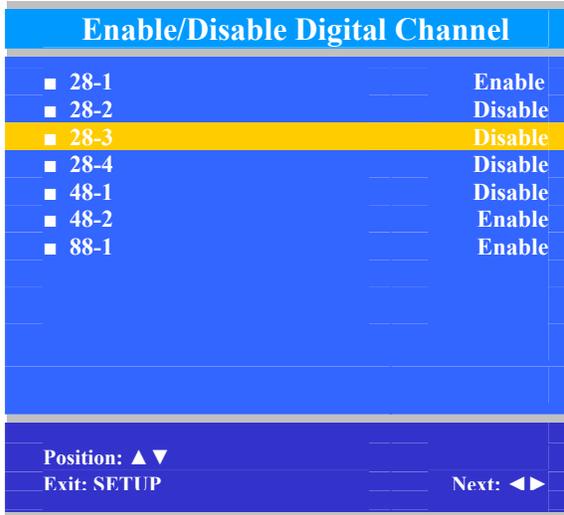
**NOTE:** This feature is only available if Mode is set to Digital Only or Analog and Digital.
- Press ▲ or ▼ to highlight the Service Level (Free, Basic, or Premium) you wish to program. The menu displays the current programming status of each level as either Programmed or Blank.

**NOTE:** A programmed service level can also be reprogrammed if desired.
- Press ▶ to start auto programming.
- 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.
- Press the SETUP button to return to normal TV viewing.



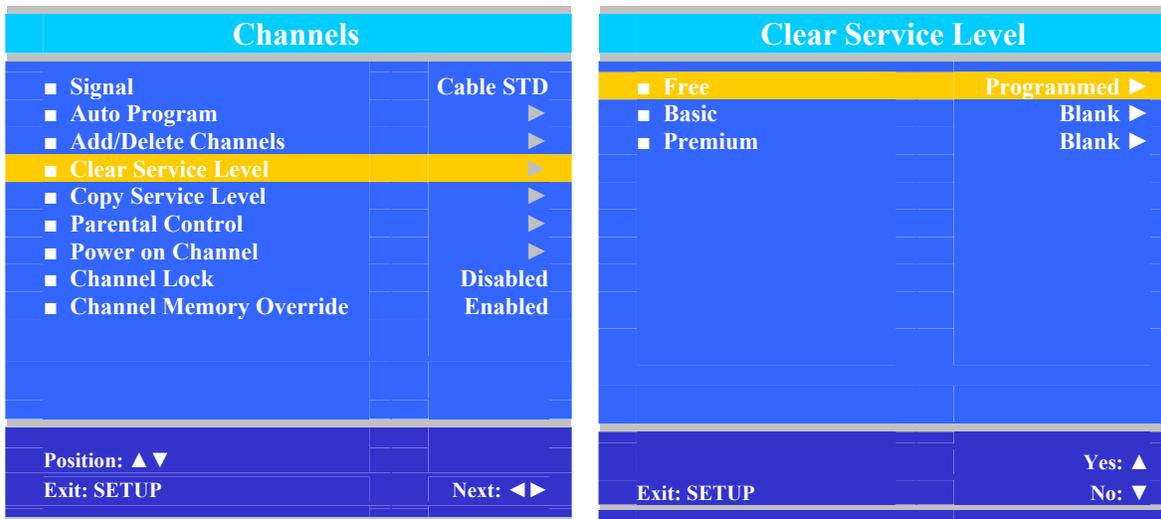
11. Press ► to select Enable/Disable Digital Channel.  
**NOTE:** *If there are not any channels programmed in the Service Level, "No Channels Present" will appear in the menu.*
12. Press ▲ or ▼ to highlight the digital channel that needs to be enabled or disabled.



13. Press ◀ or ▶ to select Enable or Disable.
14. Press the SETUP button to return to the previous menu.

### Clear Service Level

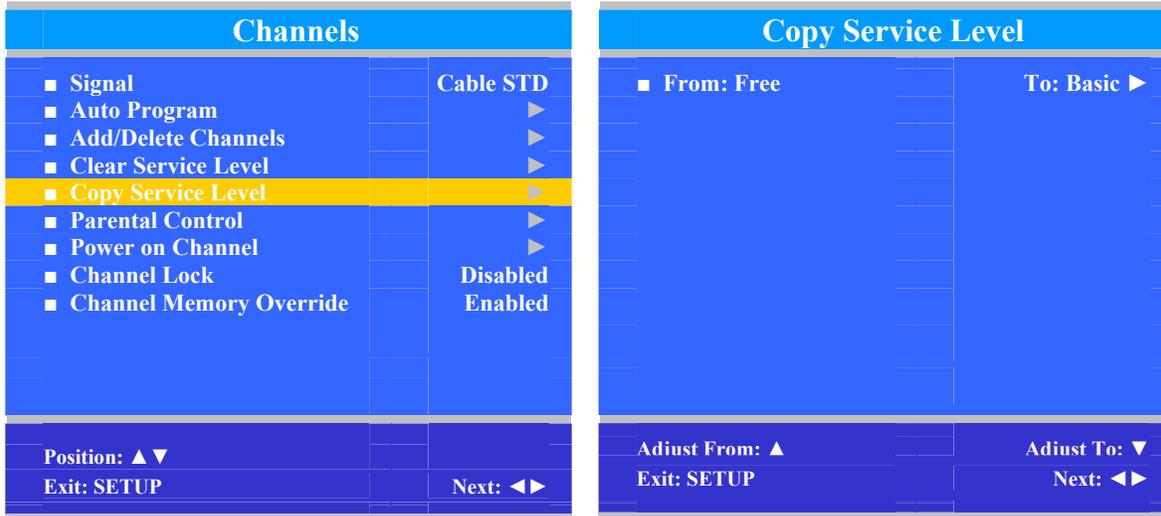
This empties a service level of all its programmed channels, leaving it blank.



1. Enter the Channels menu
2. Press ▲ or ▼ to highlight Clear Service Level.
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. A confirmation page will appear. Press ▲ to proceed. Press ▼ or SETUP to return to the previous menu.  
**NOTE:** *After a Service Level is cleared, the TV returns to the Clear Service Level menu. "Blank" will appear to the right of the Service Level.*
7. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

## Copy Service Level

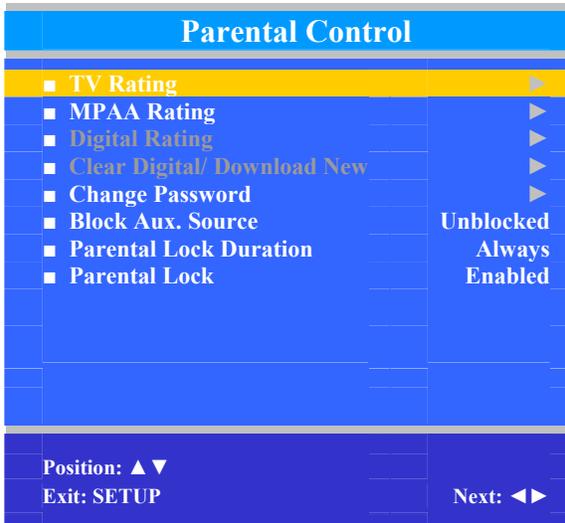
This copies one Service Level's channels to another.



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 return to the previous menu.  
**NOTE:** After a Service Level is copied, the TV returns to the Copy Service Level menu. If the To Service Level has been set to active in the Service Level setting (see Service Levels on page 16), TV programming will appear.
7. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

## Parental Control

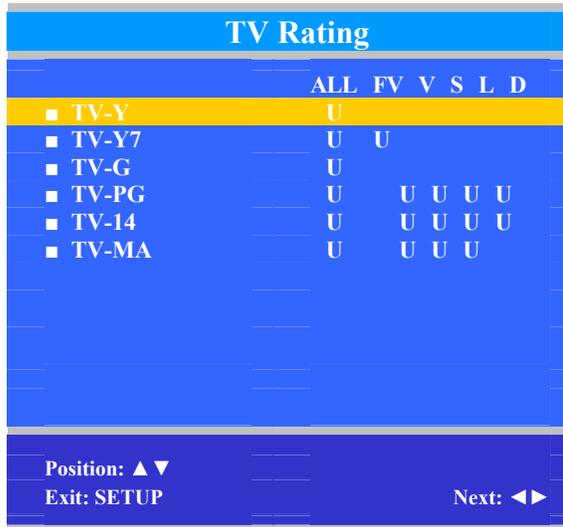
Parental Control allows you to block channels, TV shows, movies, and devices that are connected to the P23.



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.



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 them 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.  
**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 will also be blocked.*

## 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.

MPAA Rating	
■ G	Unblocked
■ PG	Unblocked
■ PG-13	Unblocked
■ R	Unblocked
■ NC-17	Unblocked
■ X	Unblocked
■ No Rating	Unblocked
Position: ▲ ▼	
Exit: SETUP	
Next: ◀ ▶	

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

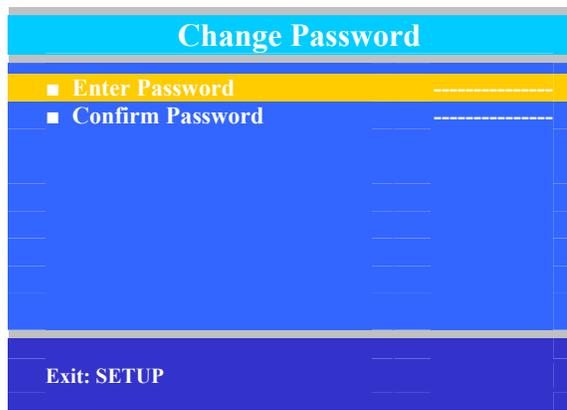
## Motion Picture Association of USA (MPAA) Rating System

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

## Change Password

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

**NOTE:** The factory default password that is programmed into the TV is 0000.



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.

## Block Aux. 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. (See Parental Lock on page 29.)

1. In the Parental Control menu, press ▲ or ▼ to highlight Block Aux. 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 certain 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 the initial use of the TV. The patient can then tune to any other available channel.

Power on Channel	
■ Free	12 A
■ Basic	Last
■ Premium	Last
Position: ▲ ▼	
Exit: SETUP	Next: ◀ ▶

1. Enter the Channels menu
2. Press ▲ or ▼ to highlight Power on Channel.
3. Press ▶ to select it.
4. Press ▲ or ▼ to highlight the desired Service Level (Free, Basic, or Premium).
5. Press ◀ or ▶ to scroll through the channels currently available in the Service Level or Last.  
**NOTE:** Last will cause the TV to turn on to the last channel before it was turned off.
6. Press the SETUP button 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. Enter the Channels menu
2. Press ▲ or ▼ to highlight Channel Lock.
3. Press ◀ or ▶ to select Enable or Disable.
4. 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 remote'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.



## Inactive Power Off (h:mm)

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

1. Enter the Features menu
2. Press ▲ or ▼ to highlight Inactive Power Off (h:mm).
3. Press ◀ or ▶ to select an active time or select Disabled to disable this feature.
4. Press the SETUP button to return to the previous menu. To exit, press SETUP until the programming menus disappear.

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

## Bed A/B

The TV can be controlled by a patient IR remote, PD108-421. The TV offers Bed A and Bed B selectable codes for independent control of a single TV in a two TV room. The patient remote can be toggled between Bed A and Bed B codes by pressing the CODE button (with a paperclip).

1. Using programming remote, PD108-420, enter the Features menu.
2. Press ▲ or ▼ to highlight Bed A/B.
3. Press ◀ or ▶ to select A or B.
4. Press the SETUP button to return to the previous menu. To exit, press SETUP until the programming menus disappear.
5. Try the patient remote, PD108-421, to make sure it works with the Bed setting.
6. If it does not, insert a paperclip into the CODE button at the bottom of the remote and hold it in for a few seconds.
7. Try the remote again.

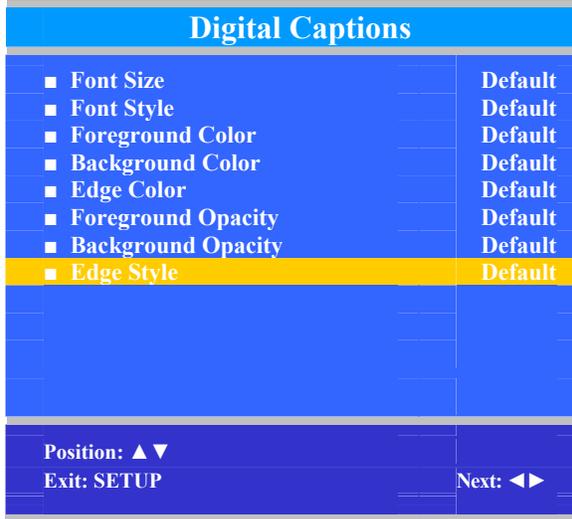
## Caption Text Modes

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 TVs operated in the USA.

1. Enter the Features menu
2. Press ▲ or ▼ to highlight Caption Text Modes.
3. Press ◀ or ▶ to select Disabled or Enabled.
4. Press SETUP 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.

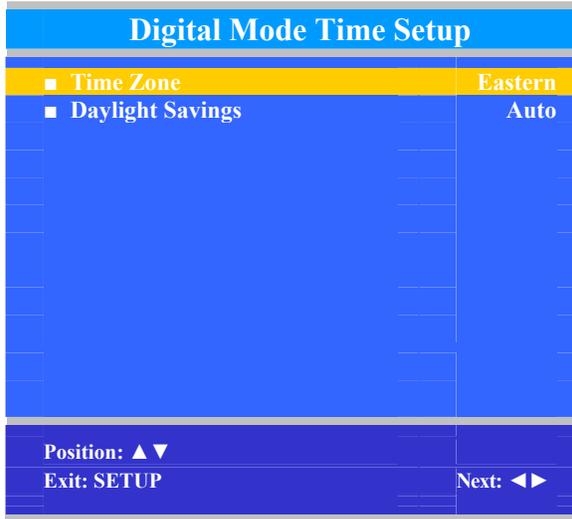


1. Enter the Features menu
2. Press ▲ or ▼ to highlight Digital Captions.
3. Press ► to select it.
4. Press ▲ or ▼ to highlight the attribute you wish to change.
5. Press ► to change it. (See the table below for the attributes of each setting.)
6. Press SETUP to return to the previous menu. To exit,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

Setting	Attributes
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, solid, translucent, transparent, flashing
Background Opacity	default, solid, translucent, transparent, flashing
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. Enter the Features menu
2. Press ▲ or ▼ to highlight Digital Mode Time Setup
3. Press ▶ to select it.
4. Press ◀ or ▶ to select your viewing area time zone: Pacific, Alaska, Hawaii, Newfoundland, Atlantic, Eastern, Central or Mountain.
5. Press ▲ or ▼ to highlight Daylight Savings.
6. Press ◀ or ▶ to select Auto, On, or Off depending on whether or not your viewing area observes Daylight Savings Time.
7. Press SETUP 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.

Diagnostics		
■ Field ON Hours		000002
■ Field Power Hours		000098
■ Firmware VSN		1.06
■ Micom VSN		6.6
Exit: SETUP		

**Field ON Hours:** Cumulative time TV is actually on.

**Field Powered Hours:** Cumulative time TV is powered.

**Firmware VSN:** Main firmware version

**Micom VSN:** Micom firmware version

1. Enter the Features menu
2. Press ▲ or ▼ to highlight Diagnostics.
3. Press ► to select it.
4. 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. Enter the Features menu
2. Press ▲ or ▼ to highlight Channel Up Power Off.
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.

## 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 by pressing the remote's or the TV's TV/AV button. Set this feature to Enabled to allow access to external devices by pressing the channel up or down buttons on a remote or most pillow speakers.

1. Enter the Features menu
2. Press ▲ or ▼ to highlight Channel to Other Source.
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.

## 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.

1. Enter the Features menu
2. Press ▲ or ▼ to highlight Power on ARC Mode.
3. Press ► to select 4:3, 14:9, 16:9, 16:9 Panorama, or Last.
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

## Standby Power

Setting the TV to Low makes the TV Energy Star qualified. However, it takes longer to power on.

1. Enter the Features menu
2. Press ▲ or ▼ to highlight Standby Power.
3. Press ► to select Low or Normal.
4. Press SETUP 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 SETUP.
2. Press ▲ or ▼ to select the OSD Language menu.
3. Press ◀ or ▶ to select your desired language.



4. Press SETUP 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 connectors. (See page 10 for a diagram of connections.)

**NOTE:** Please disable all of the TV's sources that are not being 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.

Sources		
■ TV	_____	Enable/APO
■ Composite Video	_____	Enable/APO
■ S-VIDEO	_____	Enable/APO
■ Component 1	_____	Enable/APO
■ Component 2	_____	Enable/APO
■ HDMI 1	_____	Enable/APO
■ HDMI 2	_____	Enabled/APO
■ PC-ANALOG	_____	Disabled
■ FM RADIO	_____	Enabled
■ Power On Source	_____	Last
Position: ▲ ▼		
Exit: SETUP		Next ◀▶

1. From the SETUP menu, press ▲ or ▼ to highlight Source.
2. Press ◀ or ▶ to select it.
3. Press ▲ or ▼ to highlight a desired source.
4. Press ◀ or ▶ to change the source status to either Disabled or Enabled/APO (Auto Power Off).  
**NOTE:** Sources that are gray are not installed in the TV. For the TV source, Enabled/APO means the TV will turn off if there is no video.
5. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.  
**NOTE:** For PC-ANALOG, see your computer manual for display resolution adjustments.



## Cloning

Cloning allows quick programming of a TV from a USB thumb drive. The cloning 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 folder called “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. A Cloning Main Menu will appear. (See Connections diagram on page 10.)
4. Press ▲ or ▼ to highlight Save Settings to USB.
5. Press ► to display the Save Settings to USB menu.

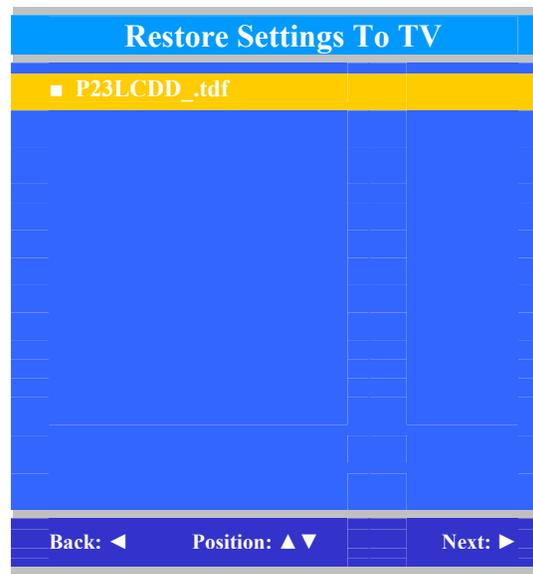
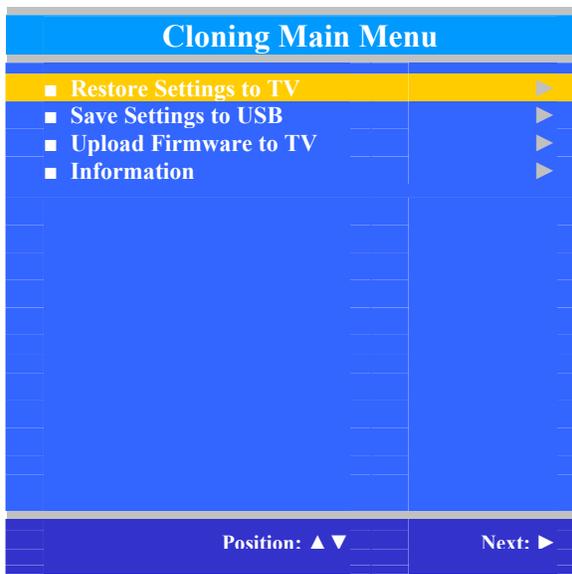


6. If you want to rename the file, press the ▲ or ▼ to highlight the file name. Otherwise go to step 7.
  - a. Press ◀ or ► to highlight each character
  - b. Press ▲ or ▼ to change each character
  - c. Repeat this process until you have the desired file name. Up to 8 characters may be used.
  - d. When done, press ◀ until the characters are no longer highlighted.
7. Press ▲ or ▼ to highlight Save.
8. Press ► to download the TV's setup to the USB thumb drive. A progress screen will be displayed.



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

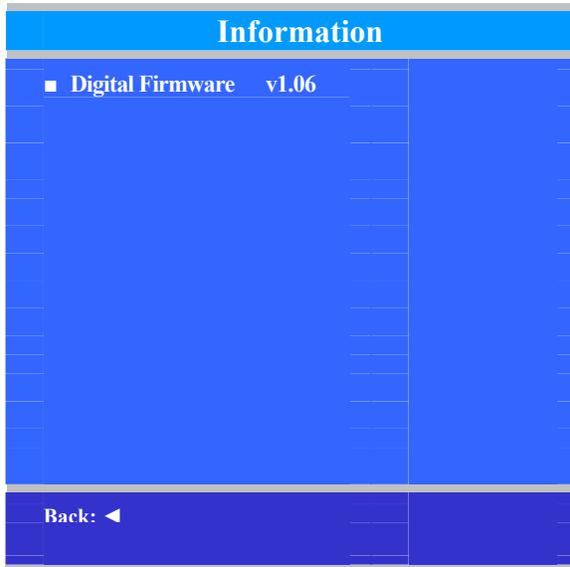
### Restore Setting to TV



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 the Cloning Main Menu after restoring is complete.
7. Remove the USB thumb drive.

## 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-P23LCDD TV is field upgradeable. A data file is written to a USB thumb 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 and Driver 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 P23. (See Connections diagram on page 10)
10. When the cloning menu appears, press ▲ or ▼ to highlight Upload Firmware to TV.
11. Press ► and an Upload Firmware to TV menu appears.
12. Automatic uploads the latest version stored on the USB drive. If there is more than one firmware version on the USB drive, the Digital Firmware menu item allows you to choose the version. Press ▲ or ▼ to highlight the option you want.
13. Press ► to select it.



14. Press the ▲ direction button in the Automatic Upload Firmware to TV menu to begin uploading the latest 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.
15. A message on the black screen will indicate when the upload is complete. After the upload is complete, remove the USB drive.
16. After the uploading process is complete, turn the TV off and then on to return to normal viewing mode.  
**NOTE:** *The TV will take a few minutes to upload the new version of firmware.*

## Appendix

### ARC vertical adjustments

The on-screen image in certain aspect ratios can be moved up or down. The Aspect Ratio is adjusted by pressing the ARC button on the remote.

1. Press ARC button on the remote repeatedly until you come to the desired aspect ratio that will allow you to move the image up or down on the screen.



2. Press ▲ or ▼ to adjust the position: -31 to +31.
3. Press ARC button to exit

### PC Analog/HDMI Picture

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

PC Analog/HDMI Picture		
■ Temperature		6500K
■ Clock		50
■ Phase		50
■ ARC		16:9
■ H-Position		50
■ V-Position		50
■ Auto		
Position: ▲ ▼		
Exit: SETUP		Next: ◀ ▶

**Temperature:** Temperature is a measure of the warmth of an image. The two temperatures available are 6500K and 9300K.

**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.

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

**ARC (Aspect Ratio Control):** Select the ratio of the screen size (Horizontal: Vertical): 4:3, 14:9 or 16:9.

**H-Position (Horizontal Position):** The H-Position moves the picture left or right on the screen.

**V-Position (Vertical Position):** The V-Position moves the picture up or down on the screen.

**AUTO:** Automatic adjustment of screen position, clock and phase.

1. Enter the Picture menu
2. Press ▲ or ▼ to highlight PC Analog/HDMI Picture.
3. Access the menu by pressing ►.
4. Press ▲ or ▼ to highlight and select one of the settings.
5. Press ◀ and ▶ to adjust the setting. (See description of settings above)
6. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

## Component Input Picture

When the TV's source is set to Component 1 or 2 additional picture adjustments are available.

Component 1/2 Input Picture		
■ Temperature		6500K
■ Clock		50
■ Phase		50
■ ARC		16:9
■ H-Position		50
■ V-Position		50
■ Auto		
Position: ▲ ▼		
Exit: SETUP		Next: ◀ ▶

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

**ARC (Aspect Ratio Control):** Select the ratio of the screen size (Horizontal: Vertical): 4:3, 14:9 or 16:9.

**H-Position (Horizontal Position):** The H-Position moves the picture left or right across the screen.

**V-Position (Vertical Position):** The V-Position moves the picture up or down on the screen.

1. Enter the Picture menu
2. Press ▲ or ▼ to highlight Component Input Picture.
3. Access the menu by pressing ►.
4. Press ▲ or ▼ to highlight and select one of the settings.
5. Press ◀ and ▶ to adjust the setting. (See description of settings above)
6. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

## Limited Warranty

PDI Communication Systems Inc., ("PDI") warrants, to the original purchaser only, that the PDI-P23 LCDD 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, Inc. 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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