PDi
Communication Systems, Inc

medTV¹⁶

16" Arm-Mounted, Healthcare-grade
LED Backlit HDTV

mymedTV.com

powered by PDi

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PDi Communication Systems, Inc. ▪ 40 Greenwood Ln ▪ Springboro, Ohio 45066 USA ▪ www.pdiarm.com and www.mymedTV.com ▪ Phone 800.628.9870

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This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.

This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

CAUTION
RISK OF ELECTRIC SHOCK, DO NOT OPEN!

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

Overhead Falling Hazard
WARNING: To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.
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

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.

Note to Cable TV Installer
This reminder is provided to call the cable TV system 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

Example of Antenna Grounding as per NEC - National Electrical Code
GROUND CLAMP
MAST
ANTENNA COAX
COAX GROUNDING BLOCK (NEC SECTION 810-20)
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
ELECTIC SERVICE METER PANEL
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

the cable entry as practical. Canadian installations shall be properly grounded in accordance with the Canadian Electrical Code, Part 1.

FCC
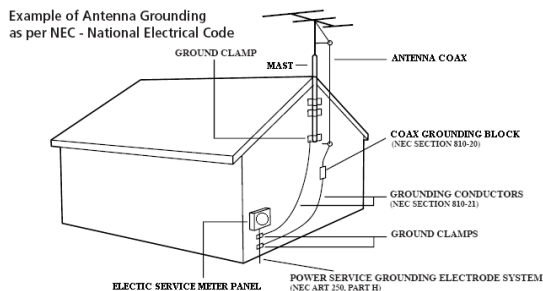This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, 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.

Maintenance and Servicing
The TV does not require periodic maintenance other than cleaning. 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. Spot test a new disinfectant by test cleaning a non-obvious small spot on the TV's back cabinet, keypad, and LCD panel. PDi recommends using a premoistened disinfectant cloth, like PD600-001 Super Sani-Cloth or similar, or spraying cleaner onto a dry cloth and then wiping the unit. Specific recommendations can be found at www.pdiarm.com. CAUTION: To avoid damage to the surface of the television, do not use abrasive or chemical cleaning agents.

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.

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Underwriters Laboratories
The model medTV¹⁶ Hospital Grade LCD HDTV is a specialized 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 healthcare facilities in both the United States and Canada.

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 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.

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IMPORTANT SAFETY INSTRUCTIONS

CAUTION: 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.

1. Read Instructions – All the safety and operating instructions should be read before the product is operated.
2. Keep these Instructions – The safety and operating instructions should be retained for future reference.
3. Heed all Warnings – All warnings on the product and in the operating instructions should be adhered to.
4. Follow all Instructions – All warnings on the product and in the operating instructions should be followed.
5. Water and Moisture – Do not expose this product to rain or moisture. Do not use this product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; near a swimming pool; and the like.
6. Cleaning – Please see specific recommendations under "Cleaning and Disinfection" on previous page.
7. Ventilation – Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing th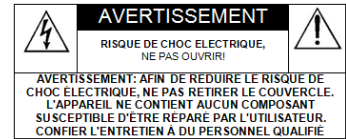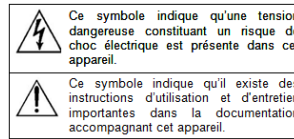e product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided, or the manufacturer's instructions have been adhered to.
8. Heat – The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.
9. Power-Cord Protection – Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the product.
10. Attachments – Only use attachments/accessories specified by the manufacturer.
11. Use only with 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.
12. Lightning – For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
13. Servicing – Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power 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.
14. Oxygen Environment – Do not use in an oxygen tent or oxygen chamber. Such use may cause a fire hazard.
15. To prevent injury, this apparatus must be securely attached to the wall in accordance with the installation instructions. TV's can pose a striking hazard when mounted at an elevated level.
16. Power Sources – This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

Ce symbole indique qu'une tension dangereuse constituant un risque de choc électrique est présente dans cet appareil.		**AVERTISSEMENT** RISQUE DE CHOC ELECTRIQUE, NE PAS OUVRIR!
Ce symbole indique qu'il existe des instructions d'utilisation et d'entretien importantes dans la documentation accompagnant cet appareil.		**AVERTISSEMENT: AFIN DE RÉDUIRE LE RISQUE DE CHOC ÉLECTRIQUE, NE PAS RETIRER LE COUVERCLE. L'APPAREIL NE CONTIENT AUCUN COMPOSANT SUSCEPTIBLE D'ÊTRE RÉPARÉ PAR L'UTILISATEUR. CONFIER L'ENTRETIEN À DU PERSONNEL QUALIFIÉ**

CONSIGNES DE SÉCURITÉ IMPORTANTES

CETTE INSTALLATION DOIT ÊTRE EFFECTUÉE PAR UN TECHNICIEN QUALIFIÉ ET DOIT ÊTRE CONFORME À TOUS LES CODES LOCAUX. LIRE ET SUIVRE LES CONSIGNES DE SÉCURITÉ AVANT DE PROCÉDER À L'INSTALLATION.

1. Lire ces instructions.
2. Conserver ces instructions.
3. Respecter tous les avertissements.
4. Suivre toutes les instructions.
5. Ne pas utiliser cet appareil près de l'eau - par exemple près d'une baignoire, d'un lavabo, dans un sous-sol humide, ou près d'une piscine ou similaire.
6. Veuillez voir les recommandations sous "Nettoyage et Désinfection" à la Page précédente.
7. Ne pas obstruer les ouvertures de ventilation. Installer conformément aux instructions du fabricant. Les ouvertures ne doivent jamais être obstruées en plaçant le produit sur un lit, un canapé, un tapis ou toute autre surface similaire.
8. NE PAS installer près de sources de chaleur telles que radiateurs, registres de chaleur, poêles ou tout autre appareil (y compris les amplificateurs) qui produit de la chaleur.
9. NE PAS neutraliser le dispositif de sécurité de la fiche polarisée ou de terre. Ce produit est équipé d'une prise de terre à trois fils, une fiche ayant une troisième broche (mise à la terre). Cette fiche ne peut s'insérer que dans une prise de courant avec mise à la terre. Il s'agit d'une caractéristique de sécurité. Si vous êtes incapable d'insérer la fiche dans la prise, contacter votre électricien pour remplacer votre prise obsolète.
10. Protéger le cordon d'alimentation pour qu'il ne soit pas piétiné ni pincé, en particulier au niveau des fiches, des prises de courant et au point de sortie de l'appareil.
11. Accessoires - Utiliser uniquement les attaches/accessoires recommandés par le fabricant.
12. Utiliser uniquement avec un chariot, stand, trépied, support ou table recommandé par le fabricant ou vendu avec l'appareil. Lorsqu'un chariot est utilisé, faire attention lors du déplacement de l'ensemble chariot/appareil afin d'éviter des blessures en cas de basculement.
13. Débrancher cet appareil en cas d'orages ou lorsqu'il reste inutilisé pendant de longues périodes.
14. Confier toute réparation à un personnel de service qualifié. Des réparations sont nécessaires si l'appareil est endommagé d'une façon quelconque, par exemple : cordon ou prise d'alimentation endommagé, liquide renversé ou des objets sont tombés dans l'appareil, l'appareil a été exposé à la pluie ou à l'humidité, ne fonctionne pas normalement ou s'il est tombé.
15. Sources d'alimentation - Ce produit doit être utilisé uniquement à partir du type de source d'alimentation indiqué sur l'étiquette. Si vous n'êtes pas sûr sur le type d'alimentation de votre domicile, consultez le détaillant de votre produit ou la compagnie d'électricité locale. Pour les produits proposés de fonctionner par piles, ou autres sources d'alimentation, reportez-vous aux consignes d'utilisation.
16. Environnement d'oxygène - Ne pas utiliser sous une tente à oxygène ou chambre à oxygène. Une telle utilisation peut causer un risque d'incendie.

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INSTALLING THE TELEVISION

Installation Precautions
For models powered over coax, use only a power source from PDi suitable for use in a healthcare facility. The single coaxial cable on top of the TV is used to supply both low voltage AC or DC power (28VAC or 24VDC) and RF signal to the television.

For models powered by ethernet (PoE) use only UL listed power sourcing equipment that offers 60W per port using all 4 pairs for power delivery. This is sometimes called **UPoE**, **PoE++** or **802.3bt type 3**. PDi recommends the **Microchip Microsemi PD-9506G/ACDC/M** midspan power inserter. The ethernet cable on top of the TV is used to supply both power and data. Be sure power is not applied to the coaxial cable entering the TV.

Coax Cable Specifications
When using a central coax power supply, cable selection is crucial. 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 TVs.

Category Cable Specifications
PoE models are IEEE 802.3bt compatible. When using a PoE power inserter to apply power to ethernet, CAT5e or better cable may be used. The total cable length from network switch to PDI device may be up to the standard 330ft.

Arm Mounting
This television is designed to attach to a PDi suspension arm adjusted to support seven pounds.

Arm Recoil Hazard: The safety brake pin must remain in the SAFETY BRAKE PIN HOLE whenever the television is removed from the arm or when the arm is removed from the wall bracket to prevent INJURY from the arm springing open. **Note:** Contact PDi for additional information on arm compatibility and cable requirements.

DIRECT ENTRY KEYPAD
You can use the glass keypad for power, volume, closed captions, channel, and direct channel entry.
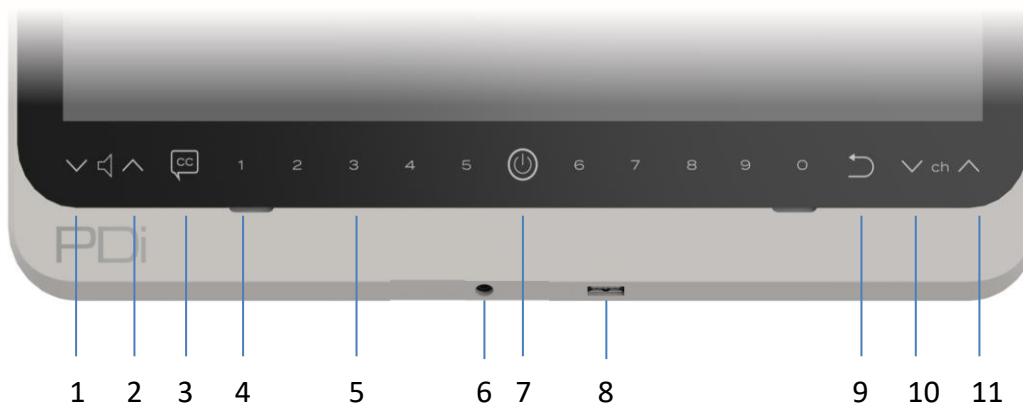
1. Volume Down	7. Power Button
2. Volume Up	8. USB
3. Closed Caption	9. Last
4. Speakers	10. Channel Down
5. Direct Entry 1-0	11. Channel Up
6. Headphone Jack	

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PROGRAMMING MENUS AND SETUP

Note: The following instructions assume you have a programming remote, have correctly mounted the TV, and connected a coax cable that provides both power and RF signal. The PDi programming remote Part Number PD108-420 must be ordered separately.

If the blue SETUP screen goes blank while you are changing any settings, simply press SETUP on the PD108-420 remote.

SERVICE LEVEL

This TV offers three different programmable Service Levels: Free, Basic, and Premium. Service levels are three independently programmable channel maps that can be used in manner desired. Some typical uses of service levels are described below. Only one Service Level is usable at a time. The TV also offers a Disabled service level.

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.

SETUP	
■ Service Level	Free
■ Picture	▶
■ Sound	▶
■ Channels	▶
■ Features	▶
■ OSD Language	English
■ Sources	▶
■ System	▶
Position: ▲▼	
Exit: SETUP or LAST	Next: ◀▶
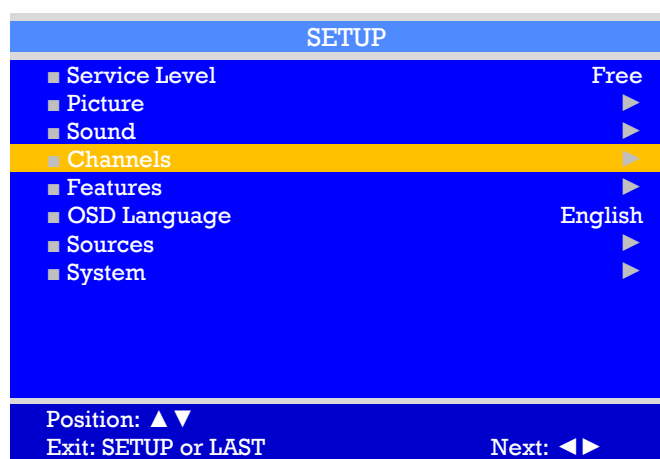
Free lets patients watch hospital education and information channels without renting the TV. The channels containing programming for no charge are typically programmed into this level of service. This is the factory default setting for service level.

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.

To set the active service level, using the PD108-420 Remote:
1. Press the SETUP button on the remote to display the on-screen SETUP menu.
2. Press the VOL▶ to disable or select desired service level. (Free, Basic, Premium). Refer to Channels setup for additional settings.

PICTURE

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

Brightness, Contrast, Color, Tint, and Sharpness
These settings have a range of 1-100, except Tint range is R50 to G50. To change one of them, simply change the number by following this process.

1. Press SETUP to display the on-screen SETUP menu.
2. Select the *Picture* menu item.
3. Press the CH ▲/ CH ▼buttons to highlight the desired picture item – *Brightness, Contrast, Color, Tint (R50 to G50), and Sharpness.*
4. Adjust the picture item using the VOL◀ / VOL▶ buttons to the desired level.
5. Press SETUP to store the picture values and to exit the menu.

SETUP	
■ Service Level	Free
■ Picture	▶
■ Sound	▶
■ Channels	▶
■ Features	▶
■ OSD Language	English
■ Sources	▶
■ System	▶

Position: ▲▼
Exit: SETUP or LAST   Next: ◄►

Picture	
■ Brightness	82
■ Contrast	80
■ Color	77
■ Tint	0
■ Color Temperature	▶
■ Sharpness	60
■ HDMI Picture	▶
■ Noise Reduction	Disabled

Position: ▲▼
Exit: SETUP or LAST   Next: ◄►
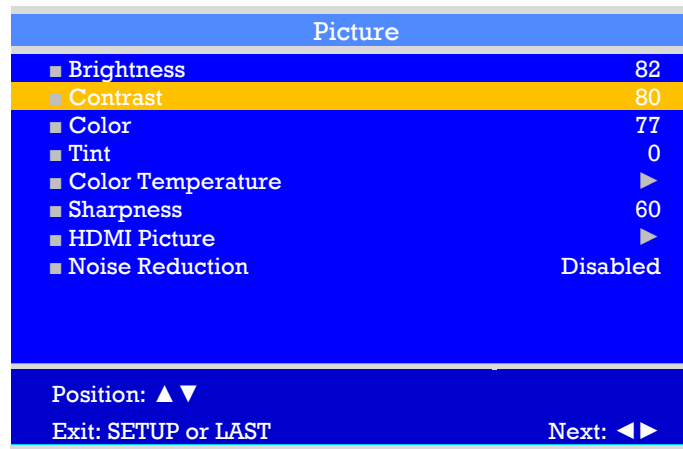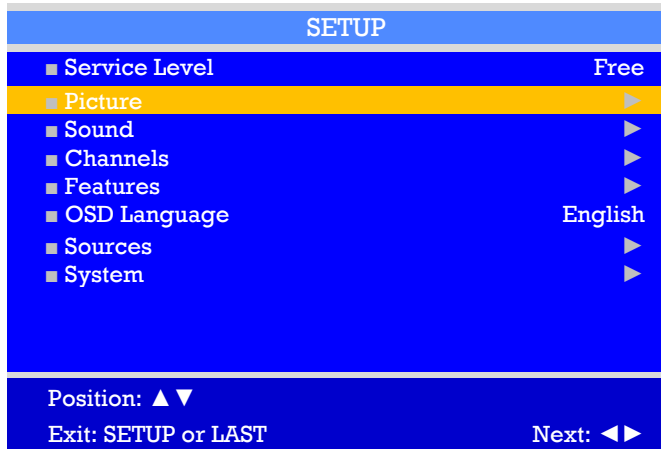
Color Temperature

The color temperature menu adjusts the color balance of the picture. "Standard", "Reddish", "Greenish", "Bluish" color temperatures are available for selection. The "USER" setting allows individual adjustment of each of the TV's primary colors. The color temperature setting is best set using a calibrated signal source capable of generating a test signal containing both pure white and pure black picture components.

1. Press the SETUP button on the remote to display the on-screen SETUP menu.
2. Press CH▲ / CH▼ to select the *Picture* menu.
3. Press CH▲ / CH▼ to highlight *Color Temperature*.
4. Press CH▲ / CH▼ to see the individual settings.
5. On User, press VOL◄ / VOL► to highlight *R, G,* or *B* or to get out of the customized adjustments. Press CH▲ / CH▼ to adjust R, G, or B.
   NOTE: When you select one of the three colors to adjust, the other two will turn grey.
6. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.
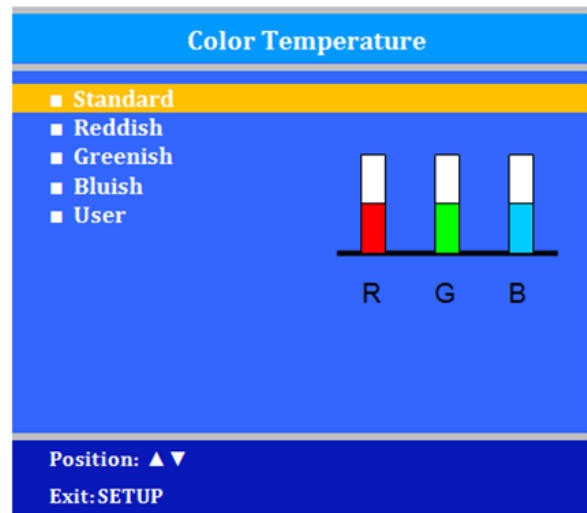
Noise Reduction

Additional picture improvement may be achieved by enabling Noise Reduction function found in the Picture menu.

1. Press the SETUP button to display the on-screen SETUP menu.
2. Select the *Picture* menu item.
3. Press the CH ▲/ CH ▼ buttons to highlight *Noise Reduction*.
4. Use the VOL◄ / VOL► buttons to alternate Enable or Disable.
5. Press SETUP to return to the previous menu.

SOUND

The Sound menu allows precise adjustment of several parameters.

1. Press the TV remote SETUP button to display the SETUP menu.
2. Press the CH ▲/ CH ▼ buttons to highlight the Sound menu item.
3. Use the VOL◄ / VOL► to display the Sound sub-menu.

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Balance Volume

You can adjust speaker volume left to right. ZERO will balance sound or move from more left sound (L50) to more right sound (R50).

1. In Sound menu, press the CH▲ / CH▼ to select *Balance*.
2. Press the VOL◄ / VOL► to select your preferred setting for volume balance.
3. Press SETUP to return to the previous menu.

Minimum Volume

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

1. In Sound menu, press the CH▲ / CH▼ to select *Minimum Volume*.
2. Press the VOL◄ / VOL► to select your preferred minimum volume.
3. Press SETUP to return to the previous menu.

Maximum Volume

Sets the maximum volume level the TV can reach.

1. In Sound menu, press the CH▲ / CH▼ button to select *Maximum Volume*.
2. Press the VOL◄ / VOL► button to select your preferred maximum volume allowed.
3. Press SETUP to return to the previous menu.

Power on Volume

Sets the initial volume for the TV upon powering on. Once the TV is on, the volume can be set to any allowable level. **NOTE:** If Power on Volume is set to LAST, and physical power is removed, the TV will power on with a volume of zero.

1. In Sound menu, press the CH▲ / CH▼ button to select *Power on Volume*.
2. Press the VOL◄ / VOL► button to determine your preferred volume when the TV turns on. Setting range is from 0 to 100 or LAST. Setting the level to LAST causes the TV to remember the last volume level used by the TV prior to turning off.
3. Press SETUP to return to the previous menu.

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Internal Speaker Enable

The speakers inside the TV cabinet can be Enabled (turned ON) or Disabled (OFF) for each TV Service Level and source. **Note**: Sound to the earphone jack remains on at all times.

1. In the Sound menu, press CH▲ / CH▼ button to select the *Internal Speaker Enable* menu item.
2. Press VOL◄ / VOL► to enter the menu.
3. Press the CH▲ / CH▼ button to select the desired Source.
4. Press VOL◄ / VOL► to select Disabled or Enabled or Vol Key Toggle.
5. Press SETUP to return to the previous menu.

Sound	
■ Balance	L 6
■ Minimum Volume	0
■ Maximum Volume	100
■ Power on Volume	Last
■ Internal Speaker Enable	►
■ Volume Leveling	►
■ Headphone Sound Mode	Stereo
■ Pillow Speaker Boost	Normal
Position: ▲▼	
Exit: SETUP or LAST	Next: ◄►

Internal Speaker Enable	
	Speaker
■ TV	Enabled
■ HDMI	Vol Key Toggle
Position: ▲▼	
Exit: SETUP or LAST	Next: ◄►
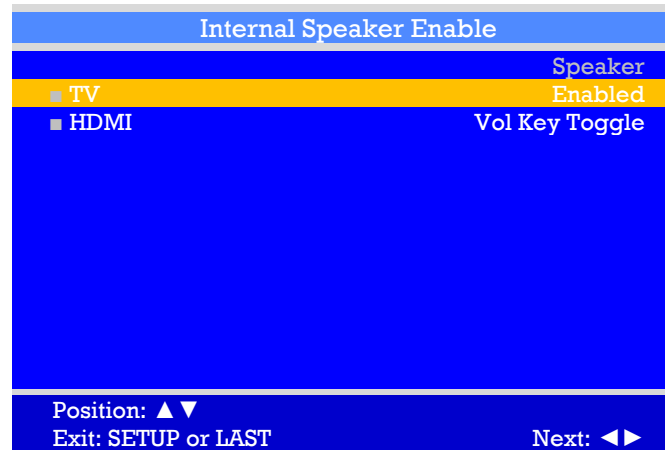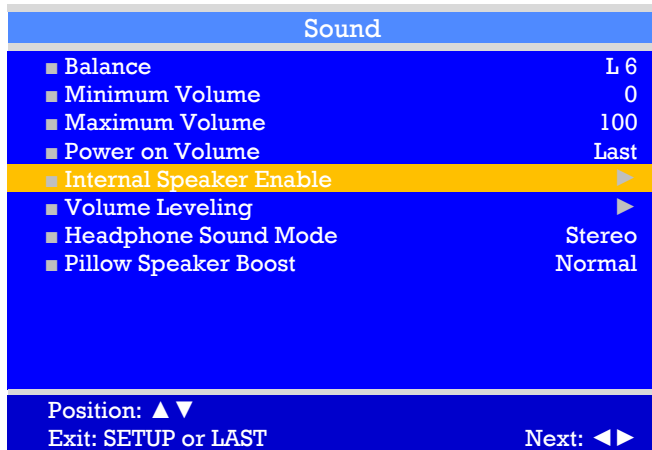
Volume Leveling

Volume leveling can be adjusted for TV input or HDMI. You can adjust the volume in 10 percent increments between 50% to 100% for each source.

Headphone Sound Mode

The earphone jack sound can be heard with either a Mono (single ear) or Stereo (dual ear) style headset.

1. In the Sound menu, press CH▲ / CH▼ to highlight *Headphone Sound Mode*.
2. Press VOL ◄ / VOL ► to choose between settings.
3. Press SETUP to return to previous menu.

Pillow Speaker Boost

For units having the OPTIONAL Pillow Speaker controls, the Pillow Speaker Boost is set to Disabled for default setting. You can choose from Normal, Strong, or Disabled settings for volume boost using an analog pillow speaker.

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CHANNELS

The Channels menu allows you to program different signal sources or select from three Service Levels (Free, Basic, or Premium). Only one service level is usable at a time. Each Service Level contains a different channel map. It also allows you to block channels, TV programs, movies, and auxiliary sources that can be input to the TV (See Parental Control).

Channels	
▪ Signal	Air
▪ Channel Sequence	All A then D
▪ Auto Program	►
▪ Auto Channel Alias	►
▪ Configure Channels	►
▪ Clear Service Level	►
▪ Copy Service Level	►
▪ Parental Control	►
▪ Power on Channel	►
▪ Channel Lock	Disabled
▪ CH Mem Override/Auto Ch Update	Disabled

Position: ▲▼
Exit: SETUP or LAST   Next: ◄►
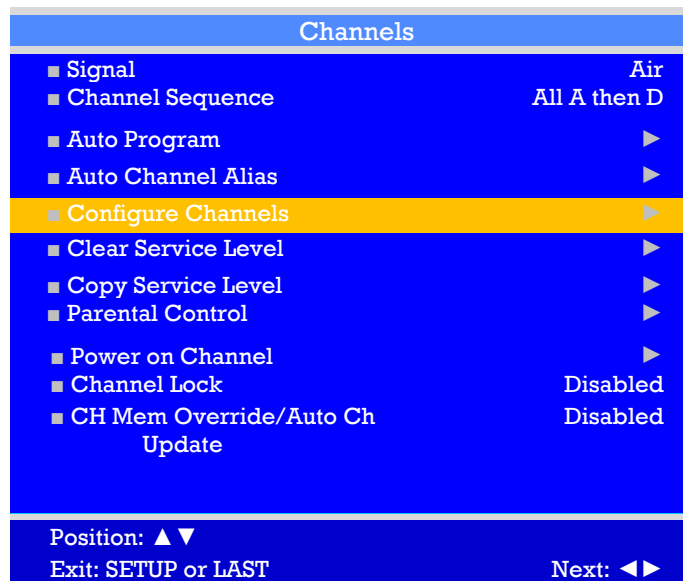
Signal
1.   Press the SETUP button on the PD108-420 remote control.
2.   Press CH▲ or CH▼ to highlight *Channels*.
3.   Press VOL► to enter the Channels sub-menu.
4.   Four different tuning types are available depending upon the healthcare facility's signal type. Selection of the correct signal type is required for the TV to recognize all possible channels and before any channel programming can begin.
5.   Enter the Channels menu.
6.   Highlight *Signal*.
7.   Press VOL ► to select *Air, Cable STD, Cable IRC,* or *Cable HRC*.
NOTE: Most hospitals use the Cable STD signal style.

Channel Sequence
This allows you to set the order in which the channels are displayed after searching.

1.   From the Channels menu, press the CH▼ button to select the *Channel Sequence* menu item.
2.   Press ◄VOL► to set the Channel Sequence in which the channels are displayed after searching.
    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.
3.   Press SETUP to return to the preceding menu.

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

1.   From the Channels menu, press the CH▼ button to select *Auto Program.*
2.   In the Auto Program menu, press the VOL► button to select *Mode*.
3.   Press VOL► to toggle to set the mode of channel scanning: Analog Only, Digital Only, or Analog and Digital.
4.   Press the CH▲ / CH ▼ button to select the service level you wish to program (Free, Basic or Premium). The menu displays the current programming status of each level as either Programmed or Blank. Press the VOL► to choose the service level.
    NOTE: Free service level is automatically programmed with Analog channels 1-125. A Programmed service level can be reprogrammed if desired.
5.   Confirm Auto Program - A confirmation menu will appear before proceeding. Press CH▲ to select YES and start auto programming. The TV will now search all available channels with an on-screen progress percentage displayed. Once complete, press SETUP to return to normal TV viewing.

NOTE*:* Any tuning mode that includes Digital channels will require several minutes to complete the auto programming.

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Auto Program		Confirm Auto Program	
▪ Mode	Digital Only	**Current Service Level**	**Premium**
▪ Additional Digital Signal		**Service Level Selected for**	
▪ Free	Programmed ▶	**Auto Program**	**Free**
▪ Basic	Blank ▶		
▪ Premium	Blank ▶	▪ Auto program Free level? Yes ▲ No ▼	
Position: ▲ ▼			
Exit: SETUP or LAST	Next: ◀ ▶	Exit: SETUP or LAST	
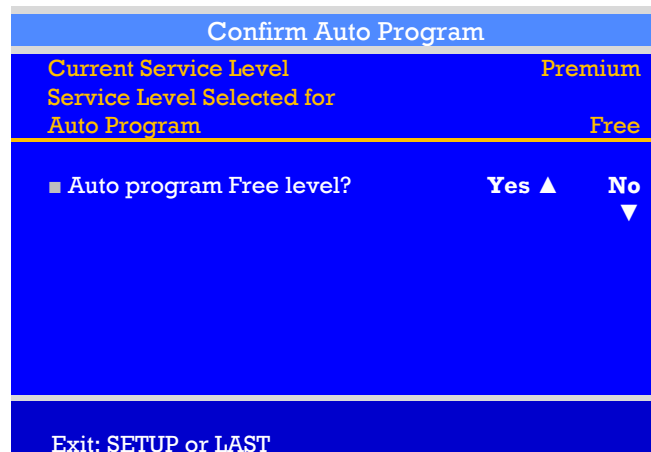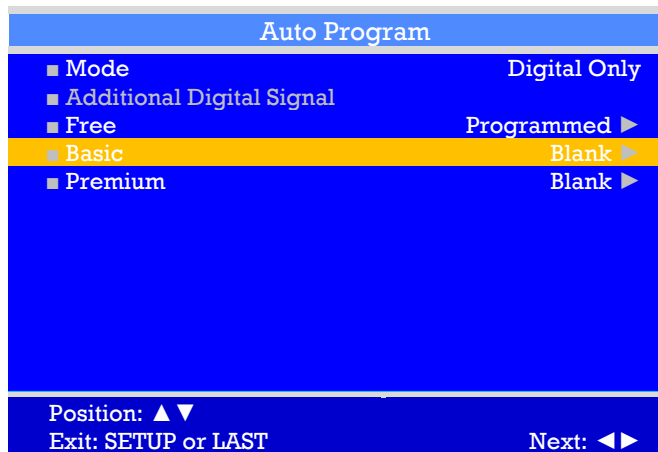
Auto Channel Alias
This setting automatically assigns a sequential channel number to the channels in the list.

1. From the Channels menu, press the CH▲ / CH▼ to highlight *Auto Channel Alias*.
2. Press VOL▶ to select and make your changes, e.g. Fill Analog Gaps with Digital Channels, Renumber Channels, Remove Aliases. Press SETUP to return to the previous menu.

Configure Channels
This menu allows you to manually adjust individual channel settings. It allows you to create a: Channel Alias, Channel Label, and to assign a channel to a service level. If you use this feature, all channels must be manually configured.

1. From the Channels menu, press the CH▲ / CH▼ to highlight *Configure Channels*.
2. Press VOL▶ to enter the menu
3. Press the CH▲ / CH▼ to highlight the channel you want to configure.
4. Press VOL▶ to the setting you want to change. Text turns red or has a red box to indicate the setting you are changing. Press OK to select
5. Press CH▲ / CH▼ to change the numbers or letters to your desired setting.   Press OK when complete.
6. Press SETUP to return to the previous menu.

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

1. From the Channels menu, press the CH▲ / CH▼ to highlight *Clear Service Level*.
2. Press VOL▶ to select.
3. Press CH▲ / CH▼ to highlight the Service Level (*Free, Basic, or Premium*).
4. Press VOL▶ to select the highlighted service level.
5. A confirmation page will appear. Press Yes▲ to proceed. Press ▼ or SETUP to return to the previous menu.
6. 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.

<u>Copy Service Level</u>

This copies one service level's channels to another service level, e.g. from FREE to BASIC.

1. In the Channels menu, Press CH▲ / CH▼ to highlight *Copy Service Level*.
2. Press VOL► to select.
3. Press CH▲ to set the From: Service Level. Press CH▼ to set the To: Service Level.
4. Press VOL ►to copy the Service Level.
5. A confirmation screen will appear. Press CH▲ to proceed. Press CH▼ or SETUP to return to the previous menu.
6. **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), TV programming will appear.
7. Press SETUP to return to the previous menu.
8. To exit, press SETUP until the programming menus disappear.

```
        Copy Service Level

From: Free                To: Premium




Adjust From:  ▲                Adjust To:  ▲
Exit: SETUP or LAST                Next: ◄►
```
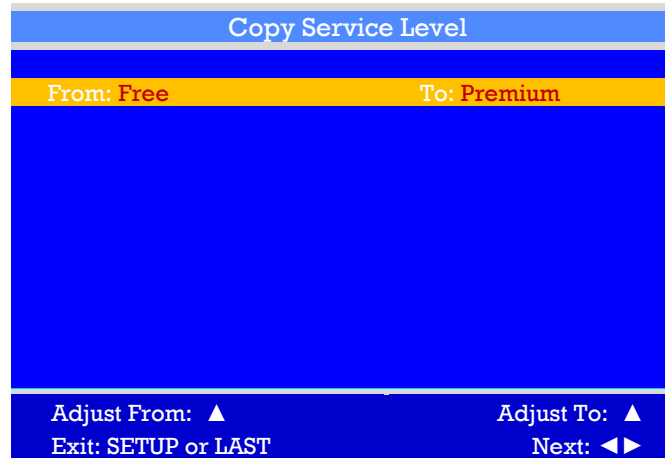
<u>Parental Control</u>

Parental Control allows you to block channels, TV shows, movies, and connected devices.

```
            Parental Control
■ TV Rating                              ►
■ MPAA Rating                            ►
■ Digital Rating                         ►
■ Clear Digital / Download New           ►
■ Block Aux. Sources          Unblocked
■ Parental Lock                Disabled




Position: ▲▼
Exit: SETUP or LAST              Next: ◄►
```

1. In the Channels menu, press CH▲ / CH▼ to highlight *Parental Control* sub-menu.
2. From the Parental Control menu, press VOL► to enter the ***TV Rating*** menu.
3. Press CH▼ to move to one of the six age-based categories.

Grade	Meaning
ALL	Family Friendly All Ages
FV	Fantasy Violence
V	Violence
S	Sexual Situation
L	Adult Language
D	Sexual Suggestive Dialogue

4. Press VOL◄ or VOL► to cycle through the sub-ratings (ALL, FV, V, S, L or D) or press VOL◄ to exit out of the sub-categories in that category. Definitions include ALL is appropriate for all children. FV indicates fantasy violence may be more intense for children younger than age 7. V contains violence, S contains sexual situations, L contains crude language, and D suggestive dialogue which usually means talks about sex.
   NOTE: The U or B (unblocked or blocked) will turn red when highlighted.
5. Press CH▲ or CH▼ to change the sub-rating.
6. Press SETUP to return to the previous menu. Or press VOL◄ 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.

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TV Rating

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

Position: ▲▼
Exit: SETUP   Next: ◄►

MPAA Rating

■ G	Unblocked
■ PG	Unblocked
■ PG-13	Unblocked
■ R	Unblocked
■ NC-17	Unblocked
■ X	Unblocked
■ No Rating	Unblocked

Position: ▲▼
Exit: SETUP   Next: ◄►

MPAA Rating

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

1. From the Parental Control menu, enter the *MPAA Rating* menu.
2. Press CH ▲ or CH ▼ to highlight a particular MPAA Rating.
3. Press VOL ◄ or VOL ► 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.
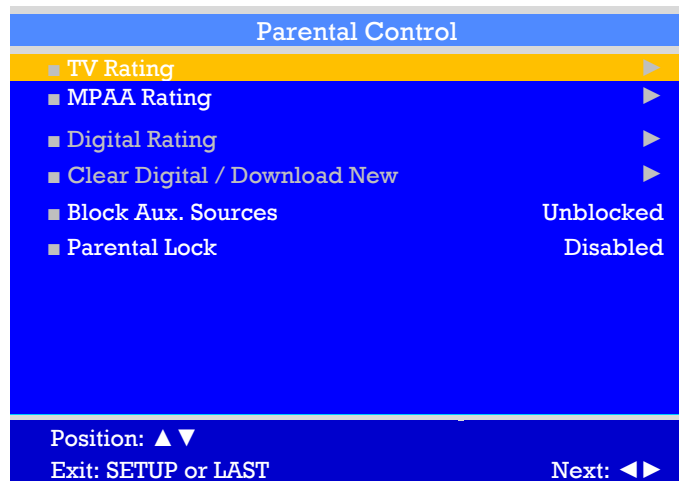
Television Rating Guides

Guide		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	General Audience	Considered suitable for all audiences; children may watch unattended
TV-PG	Parental Guidance	Suggested Unsuitable for younger children, may contain: Suggestive Dialogue, Bad Language, Sex, and Violence Scenes
TV-14	Parents Strongly Cautioned	Unsuitable for children under 14, may contain; Strong Dialogue, Bad Language, Sex, and Violence Scenes.
TV-MA	Mature Audience Only	Adults only, may contain: Strong Dialogue, Bad Language, Sex, and Violence Scenes

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	Parents 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

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Auxiliary 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. Go to SETUP – Channels -Parental Control menu. Press CH ▲ or CH ▼ to highlight *Block Aux. Sources.*
2. Press VOL ◄ or VOL ► 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

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

1. Under Setup – Channels - Parental Control menu, press CH ▲ or CH ▼ to highlight *Parental Lock Duration*.
2. Press VOL ◄ or VOL ► to select the desired time duration of lock (1 hr to 10 days, Always or Disabled).
3. Press SETUP 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 initial use of the TV. The patient can then tune to any other available channel.

1. Enter the *Channels* menu.
2. Press CH ▲ or CH ▼ to highlight *Power on Channel*.
3. Press VOL ► to select it.
4. Press CH ▲ or CH ▼ to highlight the desired Service Level (Free, Basic, or Premium).
5. Press VOL ◄ or VOL ► to select one of the channels currently available in the Service Level or Last.
6. **NOTE:** Last will cause the TV to turn on to the last channel before it was turned off.
7. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.
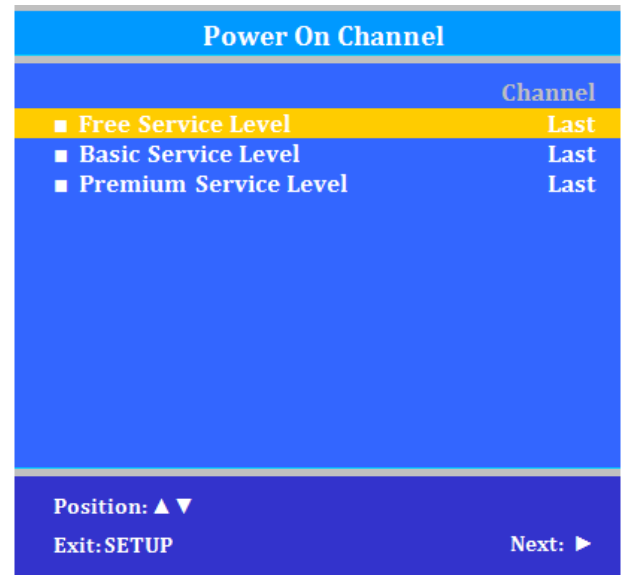
Channel Lock

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. Enter the *Channels* menu.
2. Press CH ▲ or CH ▼ to highlight *Channel Lock*.
3. Press VOL ◄ or VOL ► to select *Enable* or *Disable*.
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Channel Memory Override/Auto Ch Update

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 CH ▲ or CH ▼ to highlight *Ch Mem Override/Auto Ch Update*.
3. Press VOL ◄ or VOL ► to select *Enabled* or *Disabled*.
    a. DISABLED = Service Level Channels only.
    b. ENABLED = All possible channels.
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

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FEATURES

The Features menu provides adjustable settings that customize the TV.

1. Press the SETUP button.
2. Press CH▲ or CH▼ to highlight *Features.*
3. Press VOL► to enter the Features sub-menu.

Power on Captions Mode

Power on Captions Mode memorizes the caption setting upon powering the TV off. With this feature set to off, the TV will always power on with the captions disabled. With this feature set to Last, the TV turns on with the last caption setting enabled.

1. Enter the *Features* menu.
2. Press CH▲ or CH▼ to highlight *Power on Captions Mode*.
3. Press VOL◄ or VOL► to select *Last* or *Off*.
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Features	
■ Power on Captions Mode	Last
■ Auto Power On / Lock	Disabled
■ Inactive Power Off (h:mm)	Disabled
■ Bed A/B/C/D	Bed A
■ Caption Text Modes	Disabled
■ Digital Captions	►
■ Digital Mode Time Setup	►
■ Channel Up Power Off	Disabled
■ Channel To Other Sources	Enabled
■ Power On ARC Mode	16:9
■ Analog Pillow Speaker	Enabled
■ Splash Image	Enabled
Position: ▲▼	
Exit: SETUP or LAST	Next: ◄►

Auto Power On/Lock

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

1. Enter the *Features* menu.
2. Press CH▲ or CH▼ to highlight *Auto Power On*.
3. Press VOL◄ or VOL► to select *Disabled* or *Enabled*.
4. Press SETUP to return to the previous menu.

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 CH▲ or CH▼ to highlight Inactive Power Off.
3. Press VOL◄ or VOL► to select an active time (10 min to 8 hrs) or select *Disabled* to disable this feature.
4. Press SETUP 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/C/D

The TV can be controlled by a patient IR remote. The TV offers selectable codes Bed A, Bed B, Bed C, and Bed D for independent control of a single television in a multi-television room. The patient remote can be toggled between Bed A, Bed B, Bed C, and Bed D codes by using a paperclip to press the CODE button on the remote.

1. Enter the *Features* menu.
2. Press CH▲ or CH▼ to highlight *Bed A/B/C/D*.
3. Press VOL◄ or VOL► to select A, B, C, or D.
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

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 CH▲ or CH▼ to highlight *Caption Text Modes*.
3. Press VOL◄ or VOL► to select *Disabled* or *Enabled*.
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

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Digital Captions
Customization of Closed Captions on ATSC/QAM channels.

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

Digital Captions

■ Font Size	Default
■ Font Style	Default
■ Foreground Color	Default
■ Background Color	Default
■ Edge Color	Default
■ Foreground Opacity	Default
■ Background Opacity	Default
■ Edge Style	Default

Position: ▲▼
Exit: SETUP   Next: ►

Attribute	Settings
Font Size	Small, Standard, Large, Default
Font Style	Style 0 – Style 7, Default
Foreground Color	White, Black, Red, Green, Blue, Yellow, Magenta, Cyan, Default
Background Color	White, Black, Red, Green, Blue, Yellow, Magenta, Cyan, Default
Edge Color	White, Black, Red, Green, Blue, Yellow, Magenta, Cyan, Default
Foreground Opacity	Solid, Translucent, Transparent, Flashing, Default
Background Opacity	Solid, Translucent, Transparent, Flashing, Default
Edge Style	None, Raised, Depressed, Uniform, Left Drop Shadow, Right Drop Shadow, Default

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 CH ▲ or CH ▼ to highlight *Digital Mode Time Setup*
3. Press VOL ► to select it.
4. Press CH ◄ or CH ► to select your viewing area time zone: Pacific, Alaska, Hawaii, Newfoundland, Atlantic, Eastern, Central or Mountain.
5. Press VOL ▲ or VOL ▼ to highlight *Daylight Savings*.
6. Press CH ◄ or CH ► to select Auto, On, or Off depending on whether 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.

Digital Mode Time Setup

■ Time Zone	Eastern
■ Daylight Savings	Auto

Position: ▲▼
Exit: SETUP   Next: ►

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 CH▲ or CH▼ to highlight *Channel Up Power Off*.
3. Press VOL ◄ or VOL ► to select *Enabled* or *Disabled*.
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

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Channel to Other Sources

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

1. Enter the *Features* menu.
2. Press CH▲ or CH▼ to highlight *Channel to Other Sources.*
3. Press VOL ◄ or VOL ► to select *Enabled* or *Disabled*.
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

For PDi televisions having a CCI port in use with a PDi Set-top-Box interface, do one of the following:
1. If using BELLA-HD (PD295-004) Set-Top-Box interface, the *Channel to Other Sources* must be enabled for the HDMI Video/Audio source. Make sure to enable the HDMI source input below in the "Source Enable" menu.
2. If DirecTV® (PD295-001) or the Universal (PD295-002) Set-Top-Box interface is being used, the *Channel to Other Sources* can be left disabled if there is no external HDMI input.

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 CH▲ or CH▼ to highlight Power On ARC Mode.
3. Press VOL ► 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.

Analog Pillow Speaker

For units having the OPTIONAL Pillow Speaker control, use this setting to Enable or Disable an Analog Pillow Speaker.

Splash Image

Use this setting to Enable or Disable a custom splash screen. You can upload the custom image under Cloning and Firmware FW Updates menu.

OSD LANGUAGE (On-Screen Display)

You can select the language you wish to use in your on-screen displays.

1. Press SETUP.
2. Press CH▲ or CH▼ to select the *OSD Language* menu (English, French, Spanish).
3. Press VOL ◄ or VOL ► to select your desired language.
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.
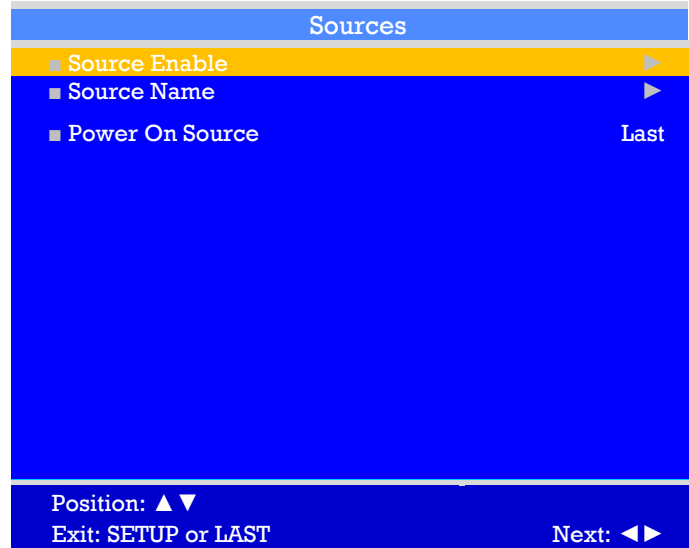
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SOURCES

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.

NOTE: Please disable all TV 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 CH▲ or CH▼ to highlight *Sources.*
2. Press VOL ◄ or VOL ► to select it.
3. Press CH▲ or CH▼ to highlight a desired source.
4. Press VOL ◄ or VOL ► to change the source status to either *Disabled* or *Enabled/APO* (Auto Power Off) or *Enabled/No APO* (No Auto Power Off).
   NOTE: Sources that are grayed out are not installed in the TV. 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.

Sources
- ■ Source Enable ►
- ■ Source Name ►
- ■ Power On Source   Last

Position: ▲▼
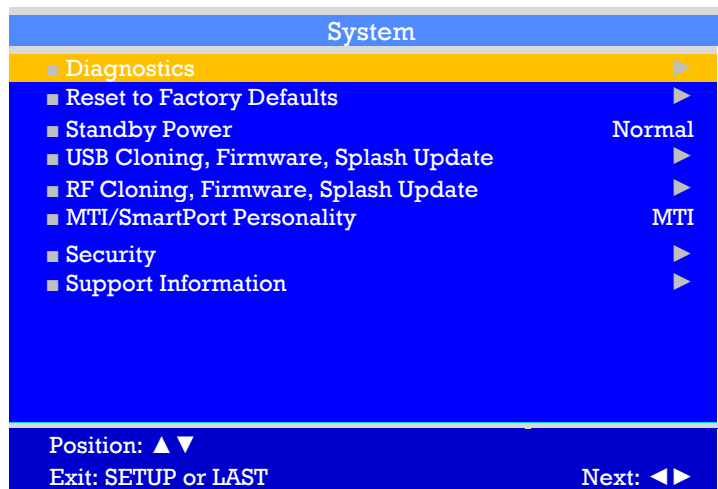Exit: SETUP or LAST   Next: ◄►

Power on Source

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

1. Enter the SETUP menu
2. Press CH▲ or CH▼ highlight *Sources.*
3. Press VOL ► to select it.
4. Press VOL◄ or VOL► to change 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.
5. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

SYSTEM

The System menu provides access to settings and information that affects your entire hospital TV.

1. Press the SETUP button.
2. Press CH▲ or CH▼ to highlight *System.*
3. Press VOL► to enter the System sub-menu.

System
- ■ Diagnostics ►
- ■ Reset to Factory Defaults ►
- ■ Standby Power   Normal
- ■ USB Cloning, Firmware, Splash Update ►
- ■ RF Cloning, Firmware, Splash Update ►
- ■ MTI/SmartPort Personality   MTI
- ■ Security ►
- ■ Support Information ►

Position: ▲▼
Exit: SETUP or LAST   Next: ◄►

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<u>Diagnostics</u>
This menu provides readouts of the TV's internal operation. The Diagnostics menu items are read-only and cannot be changed.

1. Enter the System menu.
2. Press CH▲ or CH▼ to highlight *Diagnostics*.
3. Press VOL ► to select it.
4. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Field ON Hours: Cumulative time TV is actually on.
Field Powered Hours: Cumulative time TV is powered.

<u>Reset to Factory Defaults</u>
Use this setting to restore the TV to factory defaults. Select CH▲ for YES or CH▼ for NO.

<u>Standby Power</u>
Controls power used by TV when in "Standby" or OFF stage.

1. Press the SETUP button on the remote control.
2. Press CH▲ or CH▼ to select *System*.
3. Press VOL ◄ or VOL ► to select it.
4. Press CH▲ or CH▼ to select *Standby Power*.
5. Press VOL ◄ or ► to select Low/Normal.
   Note*: If in "low" mode, TV consumes less power but takes longer to start when turned back on.*
6. Press SETUP to return to the previous menu. To exit, press SETUP until the programming menus disappear.

Diagnostics	
■ Model	PDI-P16W
■ Firmware Ver	1.01
■ Boot Ver	0.4
■ Power On Cause	Cold
■ Pro:Idiom Status	Non Pro:Idiom Ch (D279)
■ CCI/MTI/SmartPort	Disconnected
■ CCI Ver	5.1
■ Field ON Hours	000204
■ Field Powered Hours	001204

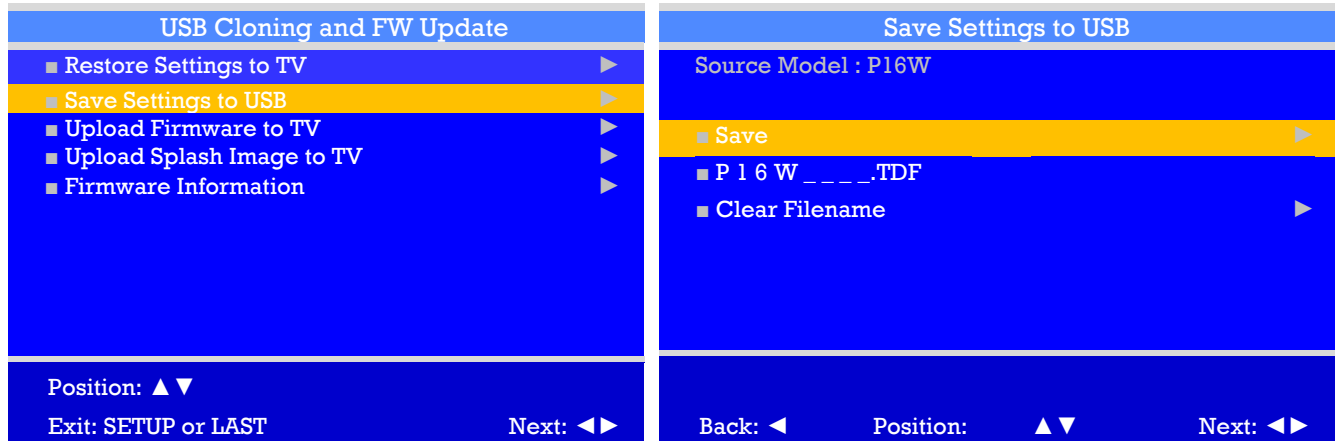Exit: SETUP or LAST

<u>USB Cloning/Firmware/Splash Updates</u>
Cloning allows you to quickly and easily copy settings and channels from one TV to other TVs. Clone operation involves first downloading setup information from a programmed host TV to a USB memory stick (thumb drive) and then uploading the setup information to another TV. Alternatively, clone files can be loaded to the RF-HEMiS Head-end TV Server by PDi and distributed to other TVs. Cloning can also be used to re-program an already programmed TV.

Save Settings to USB

1. Turn on the TV
2. Insert a USB thumb drive into the cloning port on the front of the TV. The USB Cloning and FW Update Menu will appear on the TV screen.
3. Press CH▲ or CH ▼ to highlight *Save Settings to USB*.
4. Press VOL► to display the *Save Settings to USB* menu.
5. CH▼ to rename the *.TDF file. Press VOL◄/ VOL► to set each placeholder in filename. Press OK to lock-in each place.
6. Press OK to clear any red text and lock-in filename.
7. Press CH▲ to Save.
8. Press VOL◄/ VOL► to overwrite or Save filename to USB.

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USB Cloning and FW Update		Save Settings to USB	
■ **Restore Settings to TV** ▶		Source Model : P16W	
■ **Save Settings to USB** ▶			
■ Upload Firmware to TV ▶		■ Save ▶	
■ Upload Splash Image to TV ▶		■ P l 6 W _ _ _ _.TDF	
■ Firmware Information ▶		■ Clear Filename ▶	
Position: ▲ ▼		Back: ◀ Position: ▲ ▼ Next: ◀ ▶	
Exit: SETUP or LAST Next: ◀ ▶			

Restore Setting to TV

1. Press CH ▲ or CH ▼ to highlight Restore Settings to TV.
2. Press VOL ▶ to display a list of previously stored TV setups on the USB thumb drive.
3. Press CH ▲ or CH ▼ to highlight desired setup file.
4. Press VOL ▶ to select it.
5. A confirmation screen will appear. Press CH ▲ for YES to restore the selected setup file or press VOL ◀ (Back) to return to the previous menu without restoring. A progress screen will appear as the settings are restored.
6. The TV will turn OFF and will return to the Cloning Menu after restore is complete
7. Remove the USB thumb drive.

RF-HEMiS Cloning

Clone operation involves first downloading setup information from a programmed host TV to a USB thumb drive and then uploading the setup information to the RF-HEMiS Head-end TV Server by PDi. Refer to the User Manual instructions for the RF-HEMiS Head-end Server by PDi.

Firmware

The firmware is field upgradeable, but normally does not require this process and should be performed by the hospital technician. A special data file is required from the PDi factory to complete this process. Firmware files are written to the root directory of a USB Flash Drive, connected to the TV's Cloning port and updated using the TV's menus. Refer to System – USB Cloning and FW Update menu – Upload Firmware to TV sub-menu. Once complete, the TV settings must be reprogrammed.

Splash Update

The TV splash screen is an image that is shown each time the TV is turned on. It can be updated by placing a JPG file on a USB drive.
1. Place an image file on a USB drive with the following requirements:
    a. File type must be JPEG.
    b. File name must be logo.jpg.
    c. Image resolution must not exceed the TV resolution of 1920x1080.
    d. Image size must not exceed 1MB.
2. Insert USB drive into TV.
3. Select SETUP – System – Upload Splash Image to TV.

MTI/SmartPort Personality

You can toggle between MTI and SmartPort setting here. These settings support third-party systems. Please contact your vendor for support.

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Security
You can manage the system password under System – Security. You can Enable/Disable Password Protection or change the password here.

Change Password
The Parental Control access password can be changed using this menu. It is found under SETUP – System – Security – Change Password.
NOTE: The factory default password that is programmed into the TV is 0000.

Support Information
PDi Communication Systems, Inc.
Springboro, OH
www.pdiarm.com
800.628.9870

Change Password

■ Enter Password   _ _ _ _ _

■ Confirm Password

Exit: SETUP
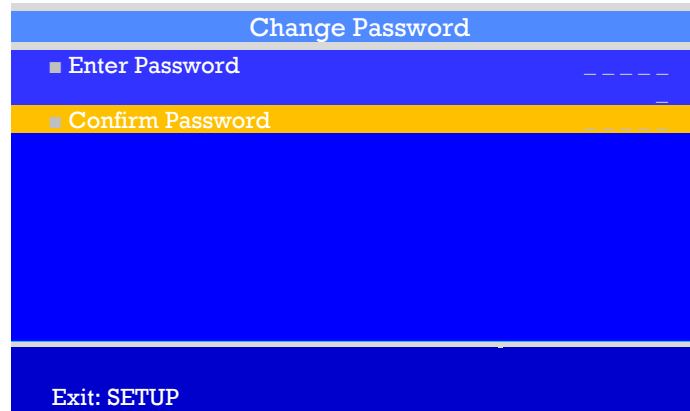
Limited Warranty
PDi Communication Systems Inc., ("PDi") standard warranty information is found at pdiarm.com. For information regarding authorized servicing and all other information pertaining to this warranty, please contact PDi COMMUNICATION SYSTEMS, INC. at 40 Greenwood Ln, Springboro, Ohio 45066 or phone 800-628-9870 and ask for the PDi ProServices team.

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