

PD295-002

Set Top Box Interface Module

Document Number: PD196-244R10



MODEL NUMBER:

PD295-002

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Set Top Box Interface Module Instruction Manual

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CAUTIONS AND WARNINGS

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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.



WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.



WARNING: To prevent injury, this apparatus must be securely attached to the equipment rack in accordance with the installation instructions.



WARNING: Do not install this equipment in a confined space such as a bookcase or similar unit.

Modifications

Any changes or modifications made to this device that are not expressly approved by PDi may void the user's authority to operate the equipment.

Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Safety Instructions

To avoid any malfunctions of the unit and associated components and unwanted electric shock or fire accidents, please observe the following:

- Review the manual for your STB unit for safety instructions
- Review the manual for your PDI TV for safety instructions
- Review the manual for the rack unit.

Placement

Avoid placing the unit in surroundings with:

- High temperature (over 40 C) or high humidity (over
- Direct sunlight or heat sources, like radiators or ovens.
- Excessive dust.
- Electrostatic effect.
- Vibration, impact, or tilted surface.

Wet Areas

- Avoid rain and moisture.
- DO NOT set containers with liquid, such as vases, on top of
- Avoid placing the unit in areas where there is dripping and/or splashing.
- Avoid placing unit near standing water.

Oxygen Environment

DO NOT use in an oxygen tent or an oxygen chamber. Such use may cause a fire hazard.

SERVICING

User Servicing

If your product is not operating correctly or exhibits a marked change in performance and you are unable to restore normal operation by following the detailed procedure in its operating instructions, do not attempt to service it yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.



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

Damage Requiring Service

Unplug this product and refer servicing to qualified service personnel under the following conditions:

- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance which indicates a need for service.

Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in safe operating conditions.

Cleaning & Disinfecting

- Unplug before cleaning.
- Use a soft cloth to clean.
- Do not use harsh chemicals such as solvents.

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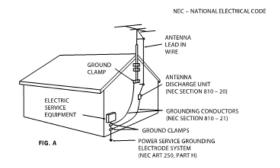


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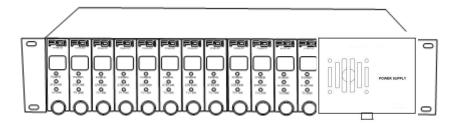
IMPORTANT SAFETY INSTRUCTIONS

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

- 15. This appliance should be mounted in an equipment rack as recommended by the manufacturer.
- 16. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- 17. If an outside antenna or cable system is connected to the video product, be sure the antenna or cable system is grounding so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antennadischarge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.



NOTE: This reminder is provided to call the CATV system installer's attention to article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.



Introduction

Traditionally a facility pays for dozens or hundreds of cable/satellite channels but only has a small number of set top boxes, each locked on a single channel, and combined onto the cable plant. When a patient wants to view a channel that isn't on the cable plant, the nurse must go to the head end and change one of the receivers or tell the patient the channel is not available. To provide the full channel package to each patient, the set top box may be placed next to each TV in the patient area. Unfortunately, when the IR remote is used by one patient to change channels, any TV nearby will also change.

The PDi Interface Module is designed to improve the patient experience interacting with a TV at a facility in which the channels come from a cable/satellite set top box. It allows direct access to all set top box functions via PDi TV keypad. IR remote, Pillow speaker and PDI-Qube™ table radio. It gives patients access to every channel the facility is paying for and allows patients to easily switch between cable/satellite, in-house DVD and rooftop antenna channels. The interface module can pay for itself by eliminating modulators, splitters and combiners in most environments. It removes the need to modulate signals for distribution (by using one coax or HDMI cable from each set top box to an associated TV). It offers customizable key mapping and works in retrofit installations (in which each set top box is already modulated to a different channel and combined onto the cable plant). Best of all it's made in America!

Compatibility

The PDi interface module forms a communication bridge between a PDi TV and a set top box. Therefore, it has been designed to be compatible with as many models of TV's and set top boxes as possible. All PDi TV's larger than 10" built since 2008 are compatible. For earlier model PDi TV's look for a CCI port on the unit or contact PDi to verify.

As of this print, the following set top boxes have been tested to work with the PDi interface module. Contact PDi for compatibility with other models.

Provider	Set Top Box Model	PDi Interface Module Min Firmware Version
Cablevision	Scientific Atlanta Explorer 4250HD	V3.00
Charter/Spectrum	Motorola DCH6200	V3.03
Charter/Spectrum	Motorola DCT2224	V3.03
Comcast	Pace DC50X	V2.06
Comcast	Comcast PR150B	V3.00
Comcast	Comcast RNG110	V3.00
cox	COX 3250HD (Scientific Atlanta Explorer 3250HD)	V3.00
Dish	Dish ViP211k	V3.00
Dish	Dish ViP222k	V3.00
Haivision	Haivision Stingray	V3.05
Haivision	Haivision Mantaray	V3.07
Time Warner Cable/Spectrum	Cisco DTA 271HD	V3.00
Time Warner Cable/Spectrum	Cisco 8742 HDC	V3.00
Time Warner Cable/Spectrum	Spectrum101-T	V3.00
Verizon		V3.03

Mounting and Powering the Interface Module

The PDi interface module is designed to slide into an industry standard mini-mod chassis and is powered by the chassis' power supply. Standard mini-mod rack mount chassis with power supply are suitable for the interface module. These include, but are not limited to:

ATX / Pico Digital MPC-12 Blonder Tongue MIRC-12V with MIPS-12C Drake® RMM-12 with PSM121 Holland HMR with HMPS

When it is more desirable to have the set top box and interface module located near the TV, the module may be used in a stand-alone configuration without the need for a mini-mod chassis. In this case the PDi PD106-747 power adapter (not included) should be used to power the interface module. Since the interface module uses very little energy, it has no special ventilation requirements.

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Connections

The PD295-002 interface module must be connected to the corresponding TV via standard CAT5 cable. The CAT5 data cable should not exceed 300 feet in length. The module must be powered via the rack mounted chassis or a standalone power adapter. The supplied IR Emitter cable must also be connected to the module and adhered to the IR window of the corresponding set top box. CAT5 and power cables are not provided with the Satellite Interface.

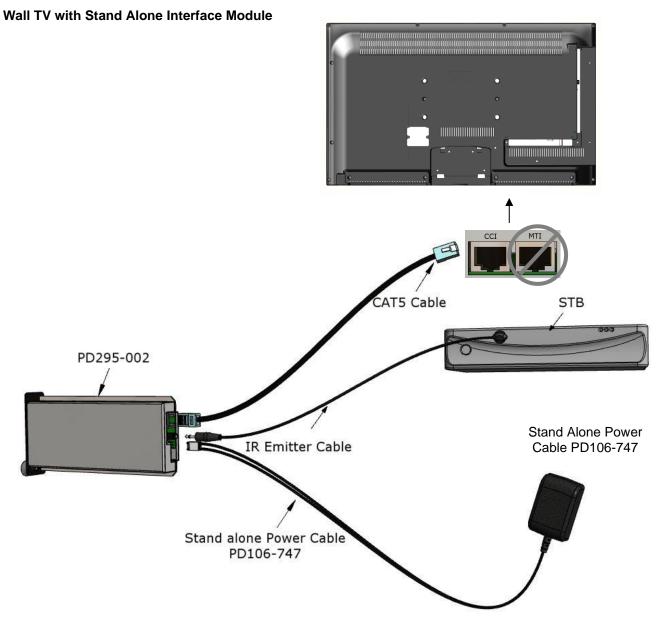


PD295-002 is for use with CCI Port only, Not MTI port

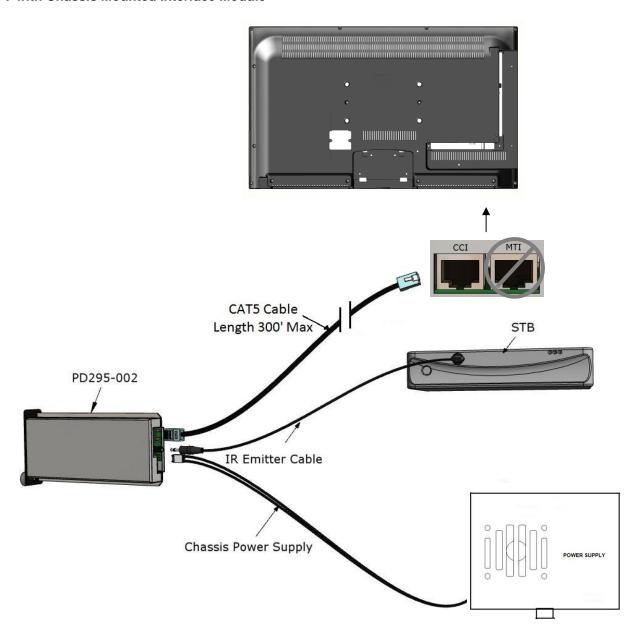
Wall Mounted Televisions

Wall Mounted TV - Data, Power, and IR Emitter Cable Installation

- 1. Connect one end of the CAT5 cable to the TV's CCI port. The CCI port is located on the back of the TV with the other connectors. Be careful not to connect to the MTI port which is usually next to the CCI port.
- 2. Connect the other end of the CAT5 cable to the RJ45 port on the PD295-002 interface module.
- 3. Connect the included IR Emitter cable to the PD295-002 interface module.
- 4. Remove adhesive backer from IR Emitter and secure it to the IR receiver window of the STB.
- 5. For chassis mounted interface module, connect chassis power cable to PD295-002. For stand alone mounting, connect power cord PD106-747 to PD295-002.



Wall TV with Chassis Mounted Interface Module



Wall Mounted TV - RF Cable Installation

The RF Output Signal cable from each interface module must also be routed to each remotely located Television. Please refer to the interface module installation instructions for details.



Arm Mounted Televisions

The PD295-002 interface module is also compatible with several of the PDi Arm Mounted televisions that incorporate a CCI Port. Models such as the PDI-P14 and PDI-P19TV can be used successfully with the interface module when ordered with the CCI option. The PDI-P10LCD series arm mounted TV can NOT be used with the PD295-002 interface module as it does not have a CCI Port.



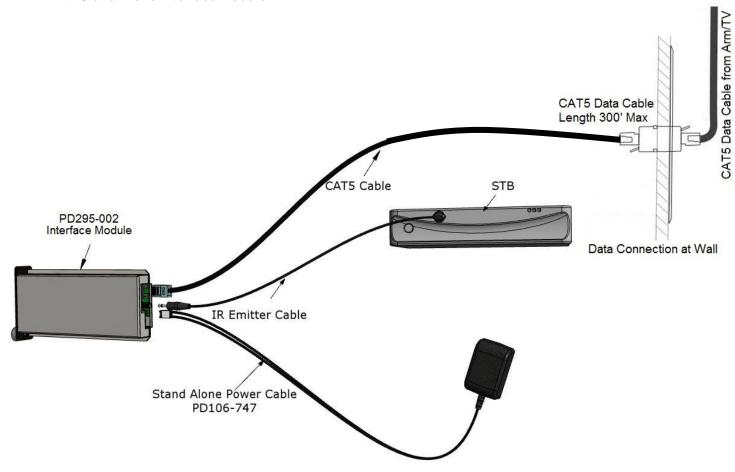
NOTE: Each TV and its Support Arm must be pre-wired with a CAT5 CCI data cable. Please contact PDi Communication Systems or your PDi distributor for assistance should your TV and/or Arm lack this cable.

Arm Mounted TV - Data, Power, and IR Emitter Cable Installation

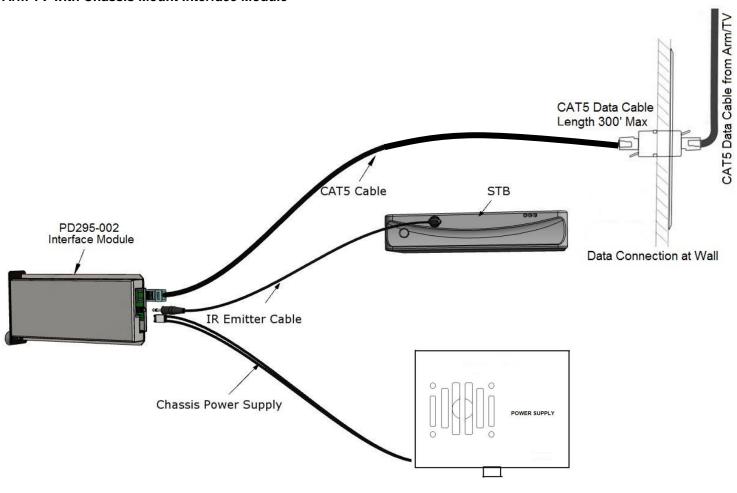
The CAT5 data cable used to connect the remotely located TV to the interface module should not exceed 300 feet in length. CAT5 and power cables are not provided with the interface module.

- 1. Connect one end of the CAT5 cable to the Data Cable from the Arm/TV. The in-room Data Connection is typically wall mounted as illustrated below.
- 2. Connect the other end of the CAT5 cable to the RJ45 port on the PD295-002 interface module.
- 3. Connect the IR Emitter cable to the interface module.
- 4. Remove adhesive backer from IR Emitter and secure it to the IR receiver window of the STB.
- 5. For chassis mounted interface module, connect chassis power cable to PD295-002. For stand alone mounting, connect power cord PD106-747 to PD295-002.

Arm TV with Stand Alone Interface Module



Arm TV with Chassis Mount Interface Module



Arm Mounted TV - RF Cable Installation

Unlike AC powered wall mounted TV's, PDi arm mounted television models receive their RF signal and TV power combined together along a connecting coax cable from an external power source. Special consideration must be used in handling the low voltage AC power found on the RF signal coax cable.

Two types of external power supplies are used with arm mounted televisions: individual style and central style. The individual power supply mounts near the TV injecting power from a nearby AC outlet onto the incoming coaxial cable. The central supply injects power onto 10 separate coax cables simultaneously and mounts in a wiring closet as far as 150 feet away from the TV's. Connection of the RF signal coax cable for each style of power supply is detailed below.

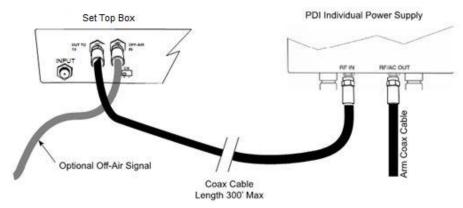
Individual Style Power Supply - RF Cable Installation

Signal connections for an arm mounted TV powered from an individual power supply requires a single coax cable no longer than 300 feet, connected at the Set Top Box's "Output to TV" connection.

Some set top boxes also allow for the connection of an external Antenna or other signal source via an "OFF-AIR IN" connection. Please consult your set top box installation instructions for details.



NOTE: The drawing below is representative of the typical set top box. Your box may vary in appearance.



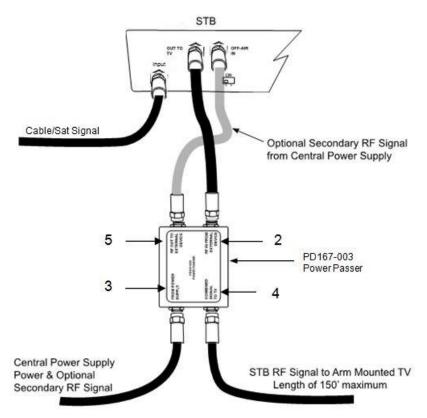
Central Style PDI -772HE Power Supply - RF Cable Installation

Low voltage AC TV power is present on each central power supply TV coax cable. A PDi Power Passer (part number PD167-003) is required to route the AC power on the coax cable around any externally connected device such as the Satellite Box. A Power Passer is required for each TV/STB connection. For new installations, the use of a PDI-772HE-IND instead of PDI-772-HE will eliminate the need for the power passers.



NOTE: The PD167-003 Power Passer is an optional device NOT supplied with the interface module and is only required for centrally powered arm mounted televisions. Please contact PDi or your PDi distributor to order this device.

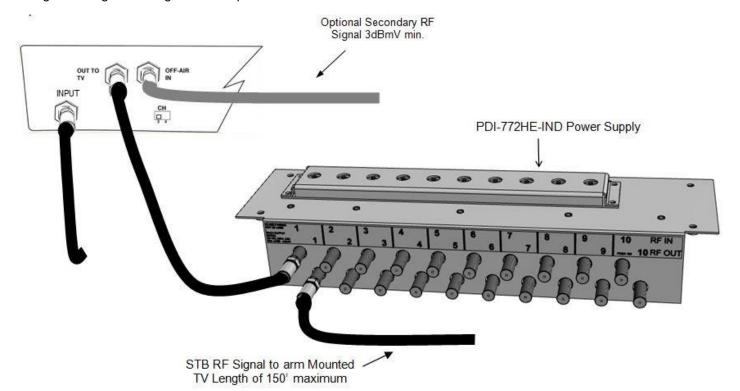
- Remove power from the TV at the central power supply.
- Connect a coaxial cable from the STB "OUT TO TV" to the Power Passer's "RF IN FROM EXTERNAL DEVICE".
- 3. Locate the coaxial cable from the central power supply. Connect this cable to "FROM POWER SUPPLY".
- Connect the coaxial cable from the TV to "COMBINED SIGNAL TO TV." The TV coax should be limited to 150' to accommodate the central power supply coax length limitations.
- 5. Connect an Optional Secondary RF signal coaxial cable from the Power Passer's "RF OUT TO EXTERNAL DEVICE" to the Set Top Box "OFF-AIR IN". This connection is only necessary if you wish to view TV signals that are already present on your system in addition to Set Top Box signals.



Central Style PDI-772HE-IND Power Supply - RF Cable Installation

Low voltage AC TV power is present on each central power supply TV RF out port. Each RF In port is designed to be connected to a separate RF source with minimal loss and high isolation.

- Remove power from the TV at the central power supply.
- 2. Connect a coaxial cable from the Set Top Box "OUT TO TV" to one of the 10 "RF IN" ports on the PDI-772HE-IND.
- 3. Connect the coaxial cable from the TV to "RF OUT". The TV coax should be limited to 150' to accommodate the central power supply coax length limitations.
- 4. Connect an Optional Secondary RF signal coaxial cable to the Set Top Box "OFF-AIR IN". This connection is only necessary if you wish to view TV signals that are already present on your system in addition to Set Top Box signals. Signal strength entering the Set Top Box should be +3dBmV to +10dBmV.



TV Setup – Most PDi TVs (P14W, P16TV, P19TV, E-Series)

To establish communication to interface module the CCI port on the TV must be active and you must have a PDi programming remote PD108-420 (not included). Follow the steps below:

- 1. Press SETUP to enter the TV's setup menu.
- 2. From the setup menu select "Features".
- 3. If the "Standby Power" setting shows in this menu, change it to "Normal". Some TV's do not have this setting so this step can be ignored. Other TV's may operate the interface module on any "Standby Power" setting. This can be determined by trying it or contacting PDi.

- 4. From the initial setup menu, select "Channels".
- 5. Change the "Pro:idiom" option to "MTI Port" or "Data Port". Some TV's do not have this setting. In that case, this step can be ignored.





From the initial setup menu, select "Sources". Set each item as detailed below.

The TV Source Setup must properly reflect the actual connections to the TV. Incorrect settings will result in loss of programming or the addition of blank signal sources. In most installations, both cable/satellite and off-air programming is delivered over RF so the "TV Tuner" must be enabled. If the cable/satellite channels are delivered over an alternate method such as HDMI, then that source must be enabled. All unused sources should be disabled.



TV Setup – A-Series

To establish communication to interface module the CCI port on the TV must be active and you must have a PDi programming remote PD108-420 (not included).

- 1. From the TV, open the TV Setup Menu by pressing SETUP on the programming remote.
- 2. Select "Sources" and then select "Source Enable". Set each item as detailed below.

The TV Source Setup must properly reflect the actual connections to the TV. Incorrect settings will result in loss of programming or the addition of blank signal sources. In most installations, both cable/satellite and off-air programming is delivered over RF so the "TV" must be enabled. If the cable/satellite channels are delivered over an alternate method such as HDMI, then that source must be enabled. All unused sources should be disabled.



TV Setup – medTAB

medTAB14C, medTAB19C, and medTAB16C are compatible with PDi interface modules. To establish communication to interface module the CCI port on the TV must be active. Setup on the medTAB14C and medTAB16C can be completed with a PDi programming remote PD108-420 (not included). medTAB19C setup is completed through onscreen touchscreen controls.

- 1. From the TV app, open the TV Settings Menu, by pressing SETUP on the programming remote or by pressing Settings on the touchscreen TV controls. Enter password ("45066" is factory default).
- 2. Select "Advanced Option".
- 3. Select "Features" then select "Input Sources". Set each item as detailed below.

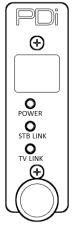
The TV Source Setup must properly reflect the actual connections to the TV. Incorrect settings will result in loss of programming or the addition of blank signal sources. In most installations, both cable/satellite and off-air programming is delivered over RF so the "TV" must be enabled. If the cable/satellite channels are delivered over an alternate method such as HDMI, then that source must be enabled. All unused sources should be disabled.

Verifying and Troubleshooting Connections

The following steps verify the data connections between the STB and TV. These instructions assume you have followed the previous connection and TV setup sections of this manual.

- Power the TV.
- Power the Set Top Box.
- 3. Power the interface module.
- 4. Examine the front mounted status lights on the PD295-002 interface module. It contains a Power status light, a Set Top Box (STB) status light and a TV status light.
 - a. Each light will turn green when properly connected.
 - b. A dark (Off) status light indicates a problem.
 - c. Blinking indicates data transfer.
 - d. All 3 lights lit indicates all connections are working properly.

NOTE: While the link lights indicate a working connection, they do not confirm the audio/video (RF or HDMI) from the STB is connected to the correct TV. Please review the "Troubleshooting" section for additional help.



POWER	STB LINK	TV LINK	SUGGESTIONS
OFF	OFF	OFF	Verify interface module is powered.
ON	OFF	ON	Verify IR Emitter cable is properly connected to the interface module.
ON	ON	OFF	 Verify TV is powered. Verify connections to interface module, TV wall plate, and TV CCI port. Make certain data cable is connected to the TV's CCI port, not MTI or Ethernet port. Verify TV standby power is set to "normal" and "Pro:Idiom" is set to "MTI Port".
ON	OFF	OFF	Verify IR Emitter and CCI connections.
ON	ON	ON	1. All connections are proper.

Interface Module Setup Menus

The interface module is configurable from Setup menus accessed by the TV programming remote or onscreen touchscreen controls. The following instructions assume you have connected the TV, interface module, STB, and the various components according to the previous instructions contained in this manual.

Accessing Interface Module Setup Menus on most PDi TVs

Make certain the STB and interface module are powered. See the instructions that came with the STB for more details.



NOTE: Some Set Top Boxes (STBs) require several minutes following application of initial power to effectively respond to commands. Please allow enough time for the STB to properly initialize.

- 2. Stand in front of the TV and press the SETUP button on the PD108-420 programming remote
- 3. When the TV Setup menu appears on the TV's screen, press SETUP a second time to display the interface module setup menu.
- 4. Press the "CH▲" or "CH▼" on the remote to highlight the desired option. To advance to the next page, press "CH▼" when the bottom item on the list is highlighted.
- 5. Press "VOL▶" or "VOL◄" on the remote to cycle through a menu item's setting options.
- 6. When finished, press SETUP to exit the "interface module setup" menu and save changes.

Accessing Interface Module Setup Menus on medTAB-C

Make certain the STB and interface module are powered. See the instructions that came with the STB for more details.



NOTE: Some Set Top Boxes (STBs) require several minutes following application of initial power to effectively respond to commands. Please allow enough time for the STB to properly initialize.

- 2. From the TV app, open the TV Settings Menu, by pressing SETUP on the programming remote or by pressing Settings on the touchscreen TV controls. Enter password ("45066" is the factory default).
- 3. Select Advanced Option then press SETUP on the programming remote OR tap anywhere on the screen to open the STB interface module setup menu.
- 4. Press the "CH▲" or "CH▼" on the programming remote OR use the touchscreen navigation arrows ▲ ▼ to highlight the desired option. To advance to the next page, press "CH▼" or ▼ when the bottom item on the list is highlighted.
- 5. Press "VOL▶" or "VOL◄" on the programming remote OR use the touchscreen navigation arrows ▶ ◀to cycle through a menu item's setting options.
- 6. When finished, press SETUP on the programming remote OR press Settings on the touchscreen controls to exit the "interface module setup" menu and save changes. NOTE: FAILURE TO EXIT the interface module setup menu by following this step 6 could result in patient access to interface module setup menus.

Menus 1 ~ 5

Menus 1, 2, 3, 4 and 5 provide the mapping content of a control device's keypad buttons. The factory default settings are shown in the menus pictured here in this manual. A complete listing of STB functions is provided in appendix A.

The left menu column "- TV KEY -" contains a listing of common control buttons found on pillow speakers, remotes, and television keypads.

The right menu column "- STB COMMAND-" contains default settings that work well with most STB's. Adjustment can only be made to items in the right column.



NOTE: A STB menu item that is blank does not provide any STB control functionality, and will operate the standard TV function.

INTERFACE MC	DULE SETUP 1/6
-TV KEY-	-STB COMMAND-
CH Up	CH+
CH Dn	CH-
Vol Up	
Vol Dn	
Last/Prev Ch	Prev Channel
OK / Sel / Enter	Select
CC	
ARC/Ratio	Down Arrow
Mute	
Sleep	Up Arrow
SAP/MTS	•
Exit: SETUP/OK	Cancel: POWER

INTERFACE MO -TV KEY-	DULE SETUP 2/6 -STB COMMAND -
0	Digit 0
1	Digit 1
2	Digit 2
3	Digit 2
-	•
4	Digit 4
5	Digit 5
6	Digit 6
7	Digit 7
8	Digit 8
9	Digit 9
Dash (-)	Info
Exit: SETUP/OK	Cancel: POWER

INTERFACE MO	DULE SETUP 3/6
-TV KEY-	-STB COMMAND -
Up Arrow	Up Arrow
Dn Arrow	Down Arrow
Lt Arrow	Left Arrow
Rt Arrow	Right Arrow
Menu	Guide
Home	
Guide	Guide
Info	Info
Recall/Star (*)	Prev Channel
Exit:	Exit
Back (Nav)	Back
, ,	
Exit: SETUP/OK	Cancel: POWER

	ODULE SETUP 4/6
-TV KEY-	-STB COMMAND -
Play	Play
Pause	Pause
Stop	Stop
Eject	Record
Rewind	Rewind
Fast Forward	FFWD
Last Track	Replay
Next Track	Advance

Cancel: POWER

Exit: SETUP/OK

INTERFACE MO -TV KEY- TV/FM TV/AV/Input Ch List DVD Menu RED GREEN YELLOW BLUE	DULE SETUP 5/6 -STB COMMAND - Exit Guide Guide
Exit: SETUP/OK	Cancel: POWER

Menu 6 Menu 6 provides STB configuration settings and firmware information.

MENU ITEM	EXPLANATION
TV Input for STB	Sets the TV's signal type input to correspond to the STB's signal output. The majority of STB's utilize modulated RF as the signal type and is the type shown in this instruction manual. TUNER is the default setting. Additional settings are available for STB's with different output signal types.
TV Chan for STB	When the STB Signal Input is set to "Tuner", this sets the channel the TV tunes to view the STB's signal. This setting should match the STB's "CH" switch setting (which is usually 3 or 4) or the modulator channel number.
STB Model	Model number of Set Top Box. Must match actual unit for proper operation. NOTE: Changing the STB Model does not change the previous STB Key selections. If the STB Model is changed, the STB Key selections should be reviewed to determine if they are the desired mappings for the installation.
Restore Factory Defaults	Press vol▶ to restore all interface settings, for the selected STB model, to factory defaults. NOTE: Each STB model has a unique set of Factory Defaults. Selecting "Restore Factory Defaults" changes the parameters to the Factory Defaults for the selected STB model and does not change the "STB Model" selection. The default settings for each supported STB are detailed below in "Appendix B – STB
Flash Intface Pwr LED	Functions and Default Mapping Reference" This provides a diagnostic tool to help determine if the TV is connected to the expected Satellite Interface and STB. If "Flash Intface Pwr LED" is turned on, the "POWER" LED on the Satellite Interface module controlled by this TV will flash rapidly. The STB controlled by this interface will also turn on and off continuously. NOTE: This is not a stored parameter. It is automatically set to "OFF" by cycling power to the interface module.
Power Save	If "Power Save" is turned ON, the STB will be automatically powered off when the TV is turned off
Interface F/W Ver	PDi Set Top Box Interface Firmware Version
TV CCI Ver	CCI communication protocol version reported by TV
IR Cable	Connection status of IR Emitter cable to the interface module.

INTERFACE MODULE SETUP 6/6			
TV Input For STB	Tuner		
TV Chan For STB	003		
STB Model	DC50X		
Restore Factory Defaults >			
Flash Intface Pwr LED Off			
Power Save	_		
	On		
DIAGNOSTICS			
IR Interface F/W V	er V3.14		
TV CCI Ver	V5.2		
IR Cable	Connected		
Exit: SETUP/OK	Cancel: POWER		

Programming the Interface Module

Programming the IR Code Set

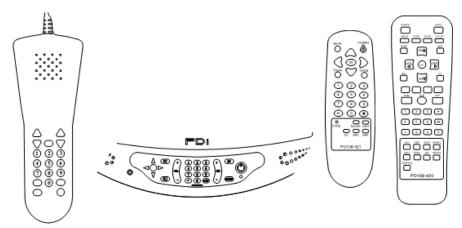
The Interface Module sends infrared (IR) codes that mimic the set top box's remote control. Therefore the interface must know which set top box is being controlled to send the proper codes.

- 1. Enter the Interface Module Setup Menu (See "Understanding Interface Module Setup Menus" earlier in this manual).
- 2. Select menu Interface Module SETUP 6/6".
- 3. Set "STB Model" to match the actual model of the STB.
- 4. Perform a factory reset (See Restoring Factory Default Settings later in this manual).

Provider	Set Top Box Model	On Screen "STB Model" Setting
Cablevision	Scientific Atlanta Explorer 4250HD	SciAtl/Cisco
Charter/Spectrum	Motorola DCH6200	Motorola
Charter/Spectrum	Motorola DCT2224	Motorola
Comcast	Pace DC50X	Cmcst DC50X
Comcast	Comcast PR150B	Cmcst PR150B
Comcast	Comcast RNG110	Cmcst PR150B
cox	COX 3250HD (Scientific Atlanta Explorer 3250HD)	SciAtl/Cisco
Dish	Dish ViP211k	Dish
Dish	Dish ViP222k	Dish
Haivision	Haivision Stingray	Hai Stingray
Haivision	Haivision Mantaray	Hai Mantaray
Time Warner Cable/Spectrum	Cisco DTA 271HD	SciAtl/Cisco
Time Warner Cable/Spectrum	Cisco 8742 HDC	SciAtl/Cisco
Time Warner Cable/Spectrum	Spectrum101-T	SciAtl/Cisco
Verizon		Motorola

Keypad Programming (Mapping) Instructions

The Set Top Box (STB) can be controlled remotely by any of the following that incorporate a keypad: PDi-Qube™, Pillow Speaker, TV's Keypad (Arm Mounted TV's), or Handheld Remote Control. In other words, any control device that incorporates a keypad capable of controlling the TV can also control the Set Top Box.



Keypad Programming or Mapping involves assigning key functions to the corresponding Set Top Box (STB) functions. It is common practice to designate a control button to activate the STB's Channel "Guide" feature. This feature allows for quicker selection of satellite channels. Some common control buttons used for "Guide" are listed below. Your installation may vary depending upon the control device's availability of these particular buttons.

Control Button	STB Function
Menu	Guide
(-)	Guide

- 1. Enter the Interface Module Setup Menu (See "Understanding Interface Module Setup Menus" earlier in this manual).
- 2. Select menu pages 1 through 5.
- 3. For each "TV Key" on the left column, set the matching "STB COMMAND" on the right column to the desired STB function.

Programming for Off-Air Non-Satellite Channels Using Off-Air RF Pass-Thru

The Set Top Box (STB) can be remotely turned off, which allows any signal connected to the "OFF-AIR" input of the STB to be active and then viewed downstream by the TV. The Off-Air signal could be a DVD player for an in-house movie channel, an externally connected antenna for local over-the-air channels, or cable TV channels. See pages 7 or 8 for details regarding connection of an Off-Air signal.



NOTE: Off-Air signals are optional and may not be available at the facility. Some Set Top Boxes do not have off air pass through. In either case this instruction section may be skipped.

To view an Off-Air signal, the patient must turn Off the STB. A control key must be assigned to perform this function. The control key should NOT be the TV's POWER button as it is used to power the TV On and Off. Instead, another key must be selected. Below are some suggestions for STB "Power" keys that might be utilized on some common control devices.

CONTROL DEVICE	SUGGESTED CONTROL KEY
Pillow Speaker	ALT, MENU, TV/AV
TV Keypad	MENU, OK, AV
Remote	TV/AV, (-)

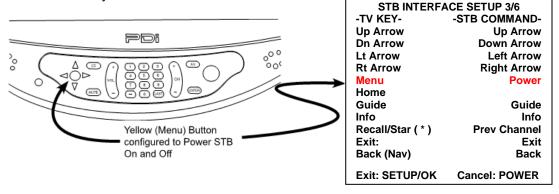
An Example for Off-Air RF Pass-Thru

A facility has an outside antenna that contains several local TV channels that they wish to provide to their patients for viewing in addition to Satellite TV channels.

The facility is equipped with the PDI-P15X arm mounted television powered remotely from a central style power supply. The Off-Air antenna signal is connected to the input of the central power supply and the STB is connected using the Optional Secondary RF Coax cable as shown on pages 8 and 9.

For this configuration, the yellow (Menu) button on the TV's keypad is chosen to Power the STB on and off by changing

the mapping of the TV "Menu" key to "Power".



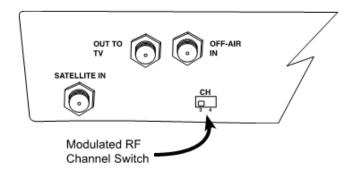
Now, Exit the Interface Module SETUP menu by pressing the SETUP button on the programming remote.

Pressing the "MENU" button on the TV's keypad should power the STB on and off with each key press. The only remaining setup involves programming the TV for the Off-Air channels while the STB is off. The TV's channel programming is not required to include the STB's channel as well. For example, if the STB is set for channel 3 output, the same channel could be omitted from the TV's channel table, if no local channel 3 is available. Please see the programming instructions specific to the model PDi TV being used.

Programming the STB Signal Input Type

The Interface Module must be programmed so that it knows which TV source input needs the keys to be mapped to the STB. When any other signal source is selected, all keys will operate normally.

- 1. Enter the Interface Module Setup Menu (see "Understanding Interface Module Setup Menus" earlier in this manual)
- Select menu "Interface Module SETUP 6/6".
- 3. Set "STB Signal Input" to match the connection to the STB. This is usually Tuner, but may be "HDMI" or "Component" for high definition STB's.
- 4. If "STB Signal Input" is "Tuner" then set the "STB Channel" to match the STB's modulated RF output. The illustration depicts the channel as number 3 in this example.
- 5. Exit setup. Verify the STB signal is now displayed on the television.



INTERFACE MODULE SETUP 6/6						
TV Input For STB TV Chan For STB STB Model Restore Factory D Flash Intrace Pwr	LED Off					
Power Save	On					
DIAGN IR Interface F/W V	OSTICS er V3.14					
TV CCI Ver	V4.6					
IR Cable	Connected					
Exit: SETUP/OK	Cancel: POWER					

Restoring Factory Default Settings

The Interface Module configuration can be reset to factory defaults. Resetting to defaults cannot be undone. If the Interface is connected to a PDI-P19W the default configuration will be optimized for the P19W's keypad. It will not match the settings that came preloaded onto the Interface.

- Enter the Interface Module Setup Menu (See "Understanding Interface Module Setup Menus" earlier in this manual).
- 2. Select menu "Interface Module SETUP 6/6".
- 3. Highlight the "Restore Factory Defaults" item.
- 4. Press "VOL▶" to restore factory defaults. The operation will happen immediately and cannot be undone.

INTERFACE MODULE SETUP 6/6							
TV Input For STB TV Chan For STB STB Model Restore Factory D Flash Interface Pw Power Save							
DIAGNO	OSTICS						
IR Interface F/W Vo	er V3.14						
TV CCI Ver	V4.6						
IR Cable	Connected						
Exit: SETUP/OK	Cancel: POWER						

Operation

PDI Interface Module operation is straight forward once configured. Site installations that involve a secondary "Off Air" signal require additional instruction to provide a worry-free patient viewing experience.

Cable/Satellite TV Operation

- 1. Turn the TV on. A channel from the set top box should be displayed.
- 2. Channel the TV Up or Down. The set top box channel should follow.
- 3. Press the designated Guide button or press "00". A channel guide should appear.
- 4. Select a channel from the Guide. The viewed set top box channel should follow the selection.

Off-Air TV Operation (Optional)

- 1. a. If using the TV Tuner for cable/satellite programming, press the control button designated for STB Power (see "Programming for Off-Air Non-Satellite Channels Using OFF-AIR RF Pass-Thru"). b. If using an input other than RF Tuner for cable/satellite programming, press the TV/AV key repeatedly until the TV Tuner source is selected.
- 2. The STB signal should disappear.
- 3. Channel the TV Up or Down. The TV should now tune the Off-Air channels (non-STB channels).
- 4. a. If using the TV Tuner for cable/satellite programming, press the control button designated for STB Power
 - b. If using an input other than RF Tuner for cable/satellite programming, press the TV/AV key again until the cable/satellite box source is selected.
- 5. The Off-Air channel should disappear and be replaced with a cable/satellite channel.
- 6. Press the TV's power button to turn off the TV at any time.

Troubleshooting

Symptom	Resolution					
IR Interference from other remotes or IR emitters	Depending on the location of the Set Top Box, the Set Top Box may experience interference from IR Remotes or from other IR Emitters on Set Top Boxes in the same area.					
	The IR Emitter supplied with the PD295-002 allows the pass through of other external IR Signals through its outward facing side. This IR Emitter also sends the IR Signal out the side opposite the cable entry, besides sending the signal through the side mounted to the Set Top Box. If there is a possibility that the IR Emitter can be exposed to the IR from remotes and other Set Top Boxes in the area, it is recommended that the IR Emitter be covered with tape that blocks IR.					
Set Top Box is ON when the TV is OFF or Set Top Box is OFF when the TV is ON	It is possible that the TV power and the Set Top Box power get out of synchronization. To correct this problem, turn both the TV OFF and Set Top Box OFF. Let the TV control the STB by turning only the TV ON.					
TV turns on but does not control the Set Top Box. There may be only a black screen or a fixed satellite channel that cannot be changed.	There can be many causes including a locked up set top box, miswiring, or incorrect configuration settings. 1. Reset the set top box using one of two ways. a. Push the reset button on the set top box. b. Remove power from the set top box for 30 seconds.					
	2. Check the wiring. The signal loop must be correct and complete. The CCI cable from this TV must connect to the Interface Module which is in turn connected by IR blaster to the STB that is sending audio/video and optionally power to the same TV.					
	Coax Power Interface					
	Supply (optional) Module					
	RF Modulator (optional) Set Top Box					
	 a. Visually verify as many connection points as possible. Sometimes this is not easy, so proceed to the next step. b. Verify all 3 LEDs are lit for the Interface Module that is supposed to be connected to this TV. See "Verifying and Troubleshooting Connections". If they are lit there is certainly a connection to a TV and set top box, but possibly not to the 					
	correct devices. c. Turn on "Flash Intface Pwr LED" to identify the Interface Module connected to this TV as well as the STB which is being controlled by this TV. See section "Interface Module Setup Menus". Verify the correct Interface Module has a					

blinking POWER LED and that the expected STB is slowly turning on and off.

- 3. Check the Interface Module configuration.
 - a. Verify the Interface Module "STB Model" parameter is set properly. See "Programming the IR Code Set", page 17.
 - b. Verify the Interface Module "TV Input for STB" parameter is set to the source input (such as TUNER, HDMI 1, etc.) that matches the set top box's connection to the TV. See "Programming the STB Signal Input Type", page 20.
 - c. If the video input to the TV is RF/TUNER, verify the Interface Module "TV Chan for STB" parameter is set to the channel that matches the set top box's RF modulator. See "Programming the STB Signal Input Type", page 20.

Additional steps for Dish receivers:

Dish receivers must be set to Primary Remote Address #1 for proper operation.

Verify the remote address setting by pressing "System Info" on the Dish receiver's front panel. The system Information screen displays on the TV showing the Primary Remote Address. If the value is not 1, then follow these steps to reset it.

- 1. Turn off all other nearby Dish receivers.
- 2. Aim the Dish IR remote at the powered on receiver.
- 3. Press and hold SAT on the Dish IR remote control, for about three seconds, until all mode buttons light up. Release SAT.
- 4. Use the NUMBER PAD on the Dish remote to enter the number 1.
- 5. Press POUND(#). If the address was entered correctly, SAT will flash three times.
- 6. Press RECORD on the Dish remote. The TV screen should update. Make sure the Primary Remote Address shown on the System Information screen is now '1'.
- 7. Press SELECT to remove the System Information screen.

Appendix A - Control Device (TV) Key Reference

A listing of Control Device Keys is provided below. Each control device key can be programmed to send a supported command to a connected Set Top Box. Please refer to sections "TV Setup" and "Understanding Interface Module Setup Menus" for programming details.

NOTE: A "Control Device Key" (also referenced as a 'TV Key') is a key located on the front panel of a PDi TV and/or on a PDi TV compatible controller (IR remote control, pillow speaker, or wireless control device).

Control Device Key
Ch Up
Ch Down
Vol Up
Vol Down
Menu
Last/Prev Ch
OK/Sel/Enter
CC
ARC/Ratio
Mute
Sleep
0
1
2
3
4
5
6
7
8
9
Play
Pause
Stop
Eject
Rewind
Fast Forward
Last Track
Fast Forward Last Track Next Track
Up Arrow
Down Arrow
Left Arrow
Right Arrow
Dash (-)
TV/FM
TV/AV/Input
SAP/MTS
Ch List
Guide
Info
Recall/Star (*)
Exit
Back (Nav)
Home
DVD Menu
RED
GREEN
YELLOW
BLUE

Appendix B - STB Command Reference

A listing of all STB commands for each of the compatible Set Top Box is provided below. Refer to section "Understanding Interface Module Setup Menus" for programming details to change the "STB Model" selection and to change the "STB Command" that a "Control Device Key" controls.

NOTE: The Set Top Box may not support all the functions shown.

Available STB Commands

Cmcst DC50X	Cmcst PR150B	SciAtl/ Cisco	Dish	Motorola	Hai Stingray	Hai Mantaray
Digit 0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0
Digit 1	Digit 1	Digit 1	Digit 1	Digit 1	Digit 1	Digit 1
Digit 2	Digit 2	Digit 2	Digit 2	Digit 2	Digit 2	Digit 2
Digit 3	Digit 3	Digit 3	Digit 3	Digit 3	Digit 3	Digit 3
Digit 4	Digit 4	Digit 4	Digit 4	Digit 4	Digit 4	Digit 4
Digit 5	Digit 5	Digit 5	Digit 5	Digit 5	Digit 5	Digit 5
Digit 6	Digit 6	Digit 6	Digit 6	Digit 6	Digit 6	Digit 6
Digit 7	Digit 7	Digit 7	Digit 7	Digit 7	Digit 7	Digit 7
Digit 8	Digit 8	Digit 8	Digit 8	Digit 8	Digit 8	Digit 8
Digit 9	Digit 9	Digit 9	Digit 9	Digit 9	Digit 9	Digit 9
Power	Power	Power	Power	Power	Power	Power
Info	Info	Info	Info	Info	Info	Info
CH+	CH+	CH Up	CH Up	CH Up	CH+	CH+
CH-	CH-	CH Down	CH Down	CH Down	CH-	CH-
Enter	OK /Select	Select	Select	Select	OK	OK
Last	Last	Last	Recall	Last	Enter/Flback	Prev Chan
Lang	FAV	FAV	(*)	FAV	Help	CC
	Right Arrow	Right Arrow	Right Arrow	Right Arrow	Right Arrow	Right Arrow
	Left Arrow	Left Arrow	Left Arrow	Left Arrow	Left Arrow	Left Arrow
	Up Arrow	Up Arrow	Up Arrow	Up Arrow	Up Arrow	Up Arrow
	Down Arrow	Down Arrow	Down Arrow	Down Arrow	Down Arrow	Down Arrow
	HD Zoom	ENTER	(#)	(#)	Sleep	Mute
	Exit	EXIT	Cancel	EXIT	Cancel/Clear	Clear
	Guide	Guide	Guide	Guide	Guide	Guide
	Menu	Menu	Menu	Menu	Menu	Settings
	My DVR	DVR LIST	Search	LIST	Search	VOD
	Red (C)	Red (C)	Red	Red (C)	Red/Mute	Red
	Help	Green (D)	Green	Green (D)	Green/CC	Green
	Yellow (A)	Yellow (A)	Yellow	Yellow (A)	Yellow	Yellow
	Blue (B)	Blue (B)	Blue	Blue (B)	Blue	Blue
	Pause	Pause	Pause	Pause	Pause	Pause
	Rewind	Rewind	Back	Rewind	Rewind	Rewind
	Play	Play	Play	Play	Play	Keyboard
	Stop	Stop	Stop	Stop	Jump Back	Stop
	REC	REC	Record	REC	Jump to End	Audio
	Replay	Replay	Skip Back	Replay	Skip Back	Skip Back
		Fast	Fast	Fast		
	Fast Forward	Forward	Forward	Forward	Fast Forward	Fast Forward
		ON	ON	ON	Skip Fwd	Skip Fwd
	ON DEMAND	DEMAND	DEMAND	DEMAND		

Available STB Commands (continued)

Cmcst	Cmcst	SciAtl/	Dish	Motorola	Hai	Hai
DC50X	PR150B	Cisco			Stingray	Mantaray
	Page Up	PAGE +	Page Up	PAGE +	VOL+	VOL+
	Page Down	PAGE -	Page Down	PAGE -	VOL-	VOL-
	PIP (On-Off)	PIP (ON OFF)	PIP	PIP (ON OFF)	PIP	Video
	PIP (Swap)	PIP (SWAP)	PIP Swap	PIP (SWAP)	PIP Swap	Unmarked 1
	PIP (Move) PIP (MOVE)		Position	PIP (MOVE)	Hide	Unmarked 2
	PIP (CH+)	PIP (CH+)	Skip FWD	PIP (CH+)	Bookmark	Hotmark
	PIP (CH -)	PIP (CH -)	dish	PIP (CH -)	V1 (Favorite)	Unmarked 3
	LIVE	LIVE	LIVE	LIVE	V2 (Favorite)	
	TV/ VCR/ Input	INPUT	INPUT	VIDEO SOURCE	V3 (Favorite)	
		HD ZOOM		(*)		
		SETTINGS		SETTINGS		
		CC		DAY +		
		USER		DAY -		

Appendix C - Factory Defaults

	OTD 0									
				STB Con						
Control Device Key	Cmcst DC50X	Cmcst PR150B	SciAtl/ Cisco	Dish	Motorola	Hai Stingray	Hai Mantaray			
Ch Up	CH+	CH+	CH Up	CH Up	CH Up	CH+	CH+			
Ch Dn	CH-	CH-	CH Down	CH Down	CH Down	CH-	CH-			
Vol Up	011	OH	OITDOWII	OITDOWII	OITDOWII	011	011			
Vol Down										
Menu	Info	Menu	Menu	Menu	Menu	Menu	Settings			
Last/Prev	Last	Last	Last	Recall	Last	Enter/	Prev Chan			
Ch						Flback				
OK/Select/ Enter	Enter	OK/Select	Select	Select	Select	OK	OK			
CC						Green/CC	CC			
ARC/Ratio		Down Arrow	Down Arrow	Down Arrow	Down Arrow	Down Arrow	Down Arrow			
Mute										
Sleep		Up Arrow	Up Arrow	Up Arrow	Up Arrow	Sleep	Up Arrow			
0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0			
1	Digit 1	Digit 1	Digit 1	Digit 1	Digit 1	Digit 1	Digit 1			
2	Digit 2	Digit 2	Digit 2	Digit 2	Digit 2	Digit 2	Digit 2			
3	Digit 3	Digit 3	Digit 3	Digit 3	Digit 3	Digit 3	Digit 3			
4	Digit 4	Digit 4	Digit 4	Digit 4	Digit 4	Digit 4	Digit 4			
5	Digit 5	Digit 5	Digit 5	Digit 5	Digit 5	Digit 5	Digit 5			
6	Digit 6	Digit 6	Digit 6	Digit 6	Digit 6	Digit 6	Digit 6			
7	Digit 7	Digit 7	Digit 7	Digit 7	Digit 7	Digit 7	Digit 7			
8	Digit 7	Digit 8	Digit 8	Digit 8	Digit 8	Digit 8	Digit 8			
9	Digit 9	Digit 9	Digit 9	Digit 9	Digit 9	Digit 9	Digit 9			
Play	Digit 9	Play	Play	Play	Play	Play	Digit 9			
Pause		Pause	Pause	Pause	Pause	Pause	Pause			
		Stop	Stop	Stop	Stop	rause	Stop			
Stop	-	REC	REC	Record	REC		διορ			
Eject						Davriad	Davind			
Rewind		Rewind Fast	Rewind	Back	Rewind	Rewind	Rewind			
Fast			Fast	Fast	Fast	Fast	Fast			
Forward		Forward	Forward	Forward	Forward	Forward	Forward			
Last Track		Replay	Replay	Skip Back	Replay	Skip Back	Skip Back			
Next Track			ON DEMAND	ON DEMAND	ON DEMAND	Skip Fwd	Skip Fwd			
Up Arrow		Up Arrow	Up Arrow	Up Arrow	Up Arrow	Up Arrow	Up Arrow			
Down Arrow		Down Arrow	Down Arrow	Down Arrow	Down Arrow	Down Arrow	Down Arrow			
Left Arrow		Left Arrow	Left Arrow	Left Arrow	Left Arrow	Left Arrow	Left Arrow			
Right		Right	Right	Right	Right	Right Arrow	Right Arrow			
Arrow		Arrow	Arrow	Arrow	Arrow	Night Allow				
Dash (-)	Lang						Info			
TV/FM		Exit	Exit	Cancel	Exit	Cancel/Clear	Clear			
TV/AV/Input										
SAP/MTS							Audio			
Ch List		Guide	Guide	Guide	Guide	Guide	Guide			
Guide	Info	Guide	Guide	Guide	Guide	Guide	Guide			
Info	Info	Info	Info	Info	Info	Info	Info			
Recall/Star (*)		Last	Last	Recall	Last	Enter/ Flback	Prev Chan			
Exit		Exit	Exit	Cancel	Exit	Cancel/Clear	Cancel/Clear			
Back (Nav)						Jump Back	Prev Chan			

Home				

Factory Defaults (continued)

Control	Cmcst	Cmcst	SciAtl/	Dish	Motorola	Hai	Hai
Device	DC50X	PR150B	Cisco			Stingray	Mantaray
Key							
DVD Menu		Menu	Guide	Guide	Guide	Menu	Settings
RED		Red (C)	Red (C)	Red	Red (C)	Red/Mute	Red
GREEN		Help	Green (D)	Green	Green (D)	Green/CC	Green
YELLOW		Yellow (A)	Yellow (A)	Yellow	Yellow (A)	Yellow	Yellow
BLUE		Blue (B)	Blue (B)	Blue	Blue (B)	Blue	Blue
Parameter							
STB Signal	Tuner	Tuner	Tuner	Tuner	Tuner	Tuner	Tuner
Input							
STB	003	003	003	003	003	003	003
Channel							

Limited Warranty

PDi Communication Systems Inc., ("PDi") warrants, to the original purchaser only, that the product 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, the whole or any component part of any product manufactured by PDi and found by PDi to be defective. If the decision is made to replace the product, PDi will exchange the model for the same model or a model similar in form and function.

As a condition to obtaining warranty service, written notification of the defective product must be received by PDi within ten (10) days of noticing the defect. 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.

For information regarding authorized servicing and all other information pertaining to this warranty, please contact PDi COMMUNICATION SYSTEMS at 40 Greenwood Lane, Springboro, Ohio 45066 or phone 800-628-9870 and ask for Service.

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

Exclusions from Warranty

- Products damaged by any catastrophe, accident, or from neglect, misuse, fault, improper assembly, improper maintenance, inadequate return packaging, or negligence by the customer or any third party. They will be treated as out of warranty for external cause to the Products, such as, but not limited to, failure of or faulty electric power, air conditioning, operator error, failure or malfunction of any data communications system. Such conditions will be determined by PDi at its sole unfettered discretion.
- Service and repair of accessories, apparatus, attachments or any other devices which are not PDi products or options.
- Defacing of product, revision control and PDi labeling (label alterations, serial number missing, serial number no longer discernible and serial number invalid). All serial numbers are recorded and tracked for warranty purposes.
- Unauthorized changes, modifications or alterations in or to the Products not installed by PDi.
- Damage to or loss of any programs, data, or removable storage media.
- Damage incurred during installation, relocation or removal of the Products or any accessories, apparatus, attachments or other devices.
- Normal wear.
- The furnishing of accessories or supplies.
- Damage by shipping carrier.
- Incompatibility issues.
- Damages of any kind including, but not limited to, direct or indirect damages, lost profits, lost saving, or other special incidental, exemplary or consequential damages whether for breach of contract, tort or otherwise, or whether arising out of the use of or inability to use the product, even if PDi or any distributor, dealer, or authorized service provider has been advised of the possibility of such damages, or any claim by any other party
- Damage caused by any software or application not installed at the factory.

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

The information and technical data in this manual is believed accurate, but is not warranted and is subject to change without notice or obligation. PDi reserves the right to change this policy without advance notice.