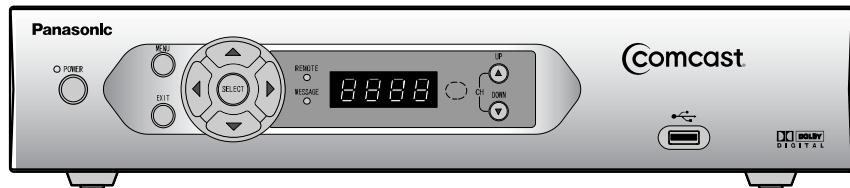


Panasonic®

Digital CATV Terminal Operating Instructions

Model No. **TZ-PCD3000**



For assistance, please call : your local cable operator

Before connecting, operating or adjusting this product, please read these instructions completely.
Save this manual for future reference.



The lightning flash with arrow-head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

Class II The Class II insulation symbol (square within a square) indicates that this product has been evaluated and tested to comply with Class II insulation requirements.

WARNING: To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or moisture.

Note To CATV System Installer

This reminder is provided to call the CATV system installer's attention to article 820-40 of the National Electric Code 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.

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 are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tipover.
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.

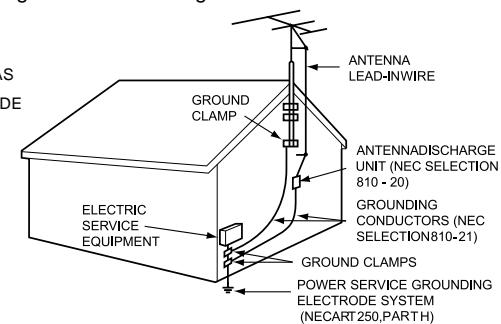


ADDITIONAL SAFETY INSTRUCTIONS

Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard 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 antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.

EXAMPLE OF ANTENNA GROUNDING AS PER (NEC) NATIONAL ELECTRICAL CODE



Installation

This unit Location

Adequate ventilation is essential to prevent internal component failure. Keep away from areas of excessive heat or moisture.

To insure optimum color purity do not position magnetic equipment (motors, fans, other speakers, etc.) nearby.

Optional External Equipment

The Video / Audio connection between components can be made with shielded video and audio cables. For best performance, video cables should utilize 75Ω coaxial shielded wire.

Cables are available from your dealer or electronic supply house.

Before you purchase any cables, be sure you know what type of output and input connectors your various components require.

Also determine the length of cable you'll need.

AC Power Supply Cord

CAUTION: To prevent electric shock, match wide blade of plug to wide slot of AC outlet and fully insert. Do not use this (polarized) plug with a receptacle or other outlet unless the blade can be fully inserted to prevent blade exposure.

Do not place this unit upside down or in a vertical position.

Do not install and use this unit upside down.

Do not install and use this unit standing on its side.

Care and Cleaning

Turn Digital CATV Terminal Off

For Digital CATV Terminal, avoid excessive moisture and wipe dry.

Avoid bumping or scraping the Digital CATV Terminal.

Remote Control

For Remote Control, use a soft cloth dampened with water or a mild detergent solution.

Avoid excessive moisture and wipe dry.

Do not use benzene, thinner or other petroleum based products.

FCC STATEMENT

FCC INFORMATION

Radio Interference

This equipment has been tested and found to comply with the limit for a Class B Digital Device in accordance with the specifications in Part 15 of FCC Rules. The rules are designed to provide reasonable protection against radio and television interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause interference to radio or television reception (which you can determine by turning the equipment off and on), try to correct the interference by one or more of the following measures.

- Reposition or relocate the receiving antenna for the radio or television that is "receiving" the interference.
- Change the position of the Digital CATV Terminal with respect to the radio or television equipment that is receiving interference.

● Move the Digital CATV Terminal away from equipment receiving interference.

● Plug the Digital CATV Terminal into a different wall outlet so the Digital CATV Terminal and equipment receiving the interference are on different branch circuits.

If these measures do not eliminate interference, please consult your dealer or an experienced radio/television technician for assistance.

FCC CAUTION:

Pursuant to 47CFR, Part 15.21 of the FCC rules, any changes or modifications to this Digital CATV Terminal not expressly approved by Matsushita Electric Corporation of America could cause harmful interference and would void the user's authority to operate this device.

FCC Declaration of Conformity

PANASONIC CONSUMER ELECTRONICS COMPANY

Responsible party:

Matsushita Electric Corporation of America
One Panasonic Way
Secaucus, NJ 07094
U.S.A.

Telephone Number: 1-888-726-2377
(9 a.m.-9 p.m., Mon-Fri, EST)
(10 a.m.-7 p.m., Sat-Sun, EST) or

E-MAIL: consumerproducts@panasonic.com

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights.

Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

U.S. Patents Nos. 4,631,603; 4,577,216; 4,819,098; 4,907,093; 6,381,747; and 6,516,132

Trademark acknowledgements

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"Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

● "TVPASS CARD" is a trademark of MOTOROLA CORPORATION.

All other trademarks are the property of the various trademark owners.

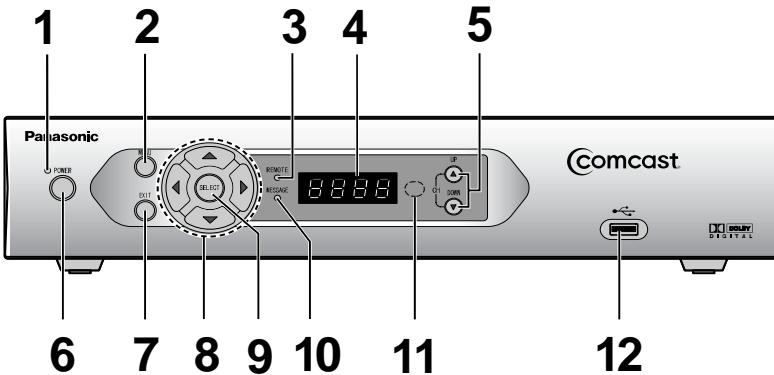
Dear Panasonic Customer

Welcome to the Panasonic Family of customers. We hope that you have many years of enjoyment from your new Digital CATV Terminal. To obtain maximum benefit from your set, please read these Instructions before making any adjustments, and retain them for future reference.

For assistance, please call : your local cable operator

Front and Rear View of the Digital CATV Terminal

Front Panel



1 POWER indicator(LED) Lights when the unit is on.

2 MENU Button Display the Main menu.

3 Remote control signal present indicator(LED) Flashes when an error-free signal is received from the remote control.

4 Display

Normally displays current channel number or time of day; in the diagnostic mode, displays diagnostic code.

5 Channel Button

Changes channel up or down.

6 POWER Button

Turn TZ-PCD3000 on/off.

7 EXIT Button

Closes menus and show the previous screen.

8 ▲▼◀▶ Button

Moves the cursor in menus and electronic program guide screens.

9 SELECT Button

Selects menu options, purchases for Pay-Per-View (PPV) events and tunes channels from the electronic program guide.

10 MESSAGE indicator(LED)

Lights when a message is present.

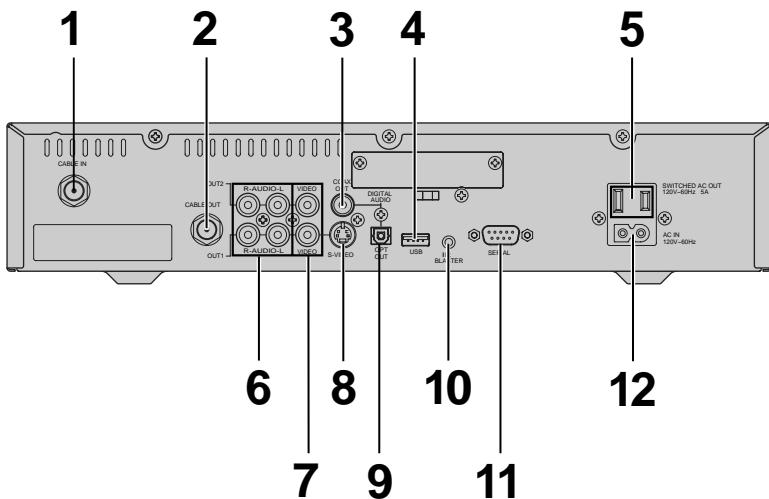
11 Remote control unit photoreceptor

Receives signal from the remote control emitter lens window.

12 USB Port (Universal Serial Bus)

Use to connect a peripheral equipment to the Digital CATV Terminal.

Rear Panel



1 CABLE IN

Use to connect Cable Signal input from Cable Service Provider.

2 CABLE OUT

Use to connect the Digital CATV Terminal output to your TV or VCR.

3 DIGITAL AUDIO COAX OUT

The COAXIAL S/PDIF connector is a digital output connection that carries Dolby Digital (up to 5.1ch) audio or PCM audio.

4 USB Port (Universal Serial Bus)

Use to connect a peripheral equipment to the Digital CATV Terminal.

5 AC Switched Outlet

Use to connect the power cord plug of some other component such as a TV.

(120 V AC, 60 Hz, 5 A)

Please use within specification.

6 AUDIO OUT

Use to connect the Digital CATV Terminal audio output to your TV with stereo sound, or VCR with stereo sound.

Note: AUDIO OUT1 is for TV, and the volume is variable. AUDIO OUT2 is for VCR, and the volume is fixed.

7 VIDEO OUT

Use to connect the Digital CATV Terminal video output to your TV or VCR.

8 S-VIDEO OUT

Use to connect the Digital CATV Terminal S-video output to your TV with S-VIDEO, or VCR with S-VIDEO.

9 DIGITAL AUDIO OPT OUT

The OPTICAL S/PDIF connector is an optical digital output connection that carries Dolby Digital (up to 5.1ch) audio or PCM audio.

10 IR BLASTER

When an IR BLASTER cable unit is connected to this terminal, this terminal can output remote control signals for recording images from a video deck that is connected to the Digital CATV Terminal.

11 SERIAL port

This terminal can be used to send and receive data between the Digital CATV Terminal and other equipment.

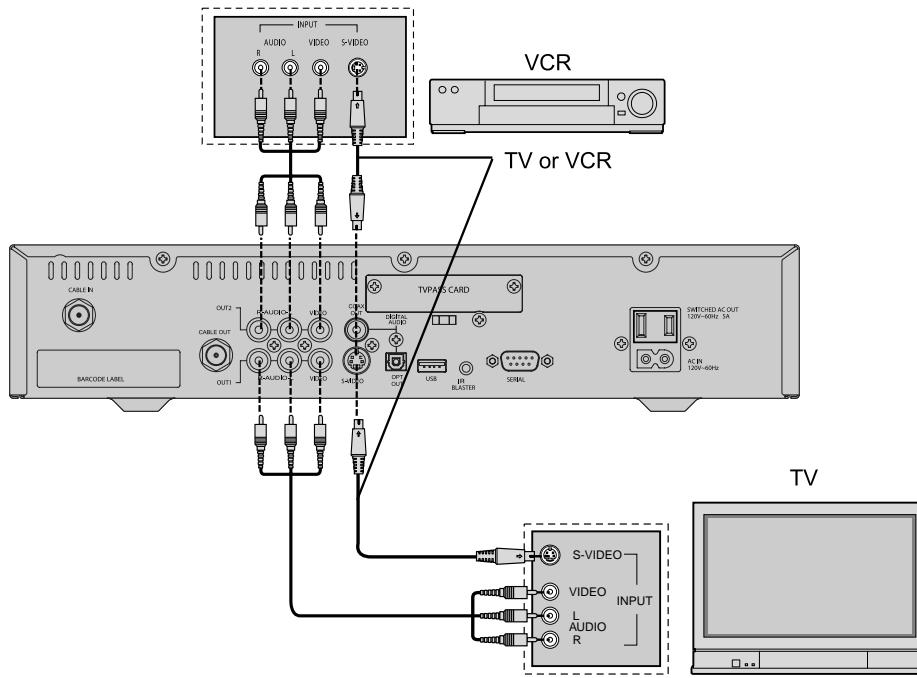
(do not connect your PC to this SERIAL port.)

12 AC Power Input

Use to connect the Digital CATV Terminal to an AC electrical outlet with AC cord (included).

Digital CATV Terminal connection to stereo TV and stereo VCR

Follow this diagram when connecting the Digital CATV Terminal to a stereo TV.



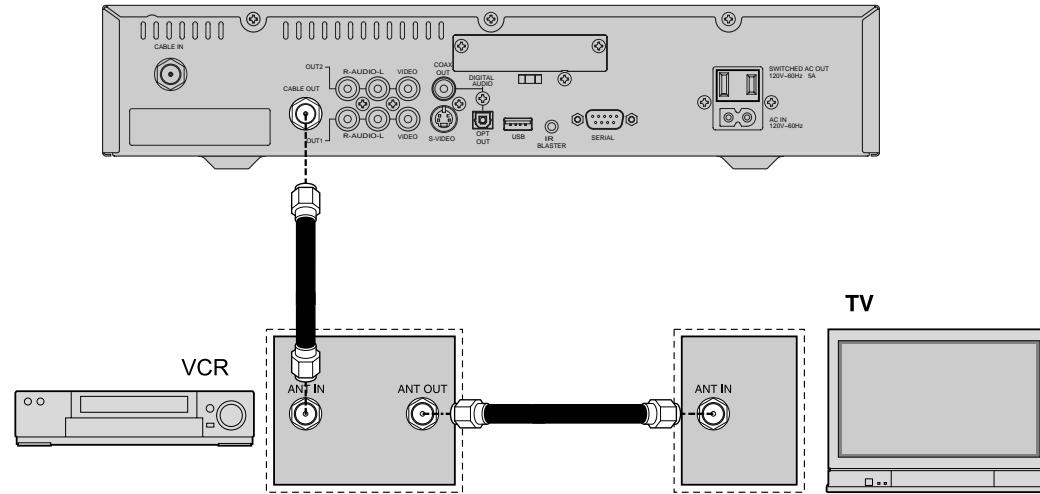
Procedure

- 1 Connect S-VIDEO Cable from the S-VIDEO output jack on the Digital CATV Terminal to the S-VIDEO input jack on the TV or VCR.
Note: Connect either the S-VIDEO or video input/output as shown above.
 - S-VIDEO will provide better picture quality.
- 2 Connect audio cables from the left and right audio output jacks on the Digital CATV Terminal to the left and right audio input jacks on the TV or VCR.

Note: Additional equipment and cables shown are not supplied with this set.

Digital CATV Terminal connection to TV and VCR

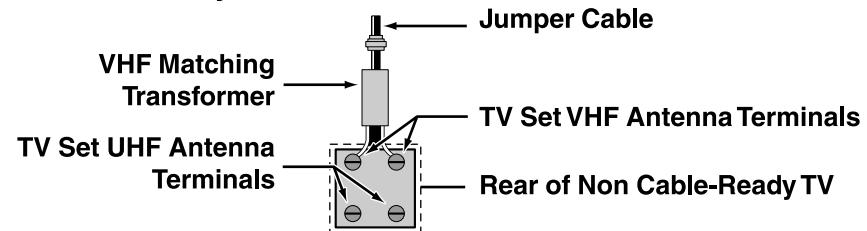
Follow this diagram when connecting the Digital CATV Terminal to a TV and VCR.



Procedure

- Connect the CABLE OUT jack of the Digital CATV Terminal to the ANT IN jack of the VCR, and connect the ANT OUT jack of the VCR to the ANT IN jack of the TV using 75 Ω shielded cable.

Connecting a non-cable ready TV



Note:

- Additional equipment and cables shown are not supplied with this set.

Troubleshooting

Symptom	Remedy
No power	Check that the AC power plug is securely plugged into the power outlet.
No reception	<ul style="list-style-type: none">Check that equipment is connected properly.Check that the cable wire is connected properly.
No picture	<ul style="list-style-type: none">Check that equipment is connected properly.Check if the channel is available.Make sure the TV power is turned on.Make sure the proper input on the TV (TV/Video) is selected.If your setup includes a VCR and/or stereo, make sure you have properly connected them to the Digital CATV Terminal unit.Make sure your TV is tuned to the proper output channel (3 or 4).
No sound	<ul style="list-style-type: none">Properly plug your television and Digital CATV Terminal unit into an electrical outlet.Make sure all cables are properly connected.Make sure the TV power is turned on.If your setup includes a VCR and/or stereo, make sure you have properly connected them to the Digital CATV Terminal unit.Make sure your TV is tuned to the proper output channel (3 or 4).Make sure the volume is turned up.Make sure the TV is not in "MUTE" mode.
Distorted picture	<ul style="list-style-type: none">Make sure all cables are properly connected.Adjust the TV to channel 3 or 4.
No color	<ul style="list-style-type: none">Make sure the current TV program is broadcast in color.Adjust the TV color controls.
The remote control is not responding	<ul style="list-style-type: none">Check that the batteries are installed with the correct polarities (+and -).The batteries are depleted: Replace them with new ones.Point the remote control unit at the remote control sensor and operate.Operate the remote control unit at a distance of not more than 23 feet (7 meters) from the remote control sensor.Remove any obstacles between the remote control unit and remote control sensor.Make sure the remote control is in the proper component mode (i.e. CABLE, TV,VCR,AUDIO).

**Panasonic Consumer Electronics Company,
Division of Matsushita Electric Corporation of America**

One Panasonic Way Secaucus New Jersey 07094

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