



Pace TDC575D

Operator's Manual




www.pacemicro.com



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The model and serial number of your Pace TDC575D set-top are on a label on its base.

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SAFETY INFORMATION

This digital set-top has been manufactured and tested with your safety in mind. However, improper use can result in potential electric shock or fire hazards. To avoid defeating the safeguards that have been built into your set-top, please observe the precautions discussed in this document.

WARNINGS ON YOUR SET-TOP



The lightning flash with arrowhead symbol, within a triangle, is intended to alert you to the presence of uninsulated "dangerous" voltages within your set-top's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within a triangle is intended to alert you to the presence of important instructions in the literature accompanying your set-top.

OTHER WARNINGS

To reduce the risk of electric shock, do not remove the cover of your set-top. There are no user-serviceable parts inside it.

Do not perform any servicing unless you are qualified to do so. Refer all servicing to qualified service personnel. Servicing the set-top yourself will invalidate the warranty.

To reduce the risk of fire or electric shock, do not expose this set-top to rain or moisture.

On the rear panel of your set-top there is a tamper-evident label that states 'Warranty void if broken or removed'.

To avoid possible damage to the internal hard disk, do not pick up or otherwise move your set-top while it is connected to the power supply. If you want to move your set-top, first disconnect it, then wait at least 30 seconds before continuing. You should handle your set-top carefully, as any damage you cause to the internal hard disk (or any other component) will invalidate your warranty.

INSTALLATION

The installation of your set-top should be carried out by a qualified installer and should conform to local codes.

Note to the installer

This reminder is provided to call the attention of the cable-TV-system installer to Section 820-40 of the National Electrical Code (USA), which 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 is practical.

Service address:

Pace Micro Technology (Support Services) Ltd.
3701 FAU Boulevard, Suite 200, Boca Raton
Florida, 33431, U.S.A.

IMPORTANT SAFETY INSTRUCTIONS

Before you install or use the apparatus, you must read and understand these Important Safety Instructions. At all times when using the apparatus you must follow these Important Safety Instructions to reduce the risk of fire, electrical shock and injury to persons.

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 the 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.

In addition to the Important Safety Instructions, please read the Safety Information below.

Power sources

You must operate your set-top 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 dealer or local power company. If you move your set-top between locations at different temperatures, allow it to reach room temperature before you apply power to it.

Overloading

Do not overload wall outlets, extension cords or other power outlets as this can result in a risk of fire or electric shock.

Lightning

For added protection for your set-top during a lightning storm, or when it is left unattended and unused for long periods of time, disconnect the cable system from your set-top. See also item 13 in the Important Safety Instructions.

Placement and mounting

Do not place your set-top on an unstable or uneven surface. Your set-top may fall, causing serious injury to a child or adult and serious damage to your set-top. If you mount your set-top, for example to a wall or ceiling, follow the manufacturer's instructions and use a mounting accessory recommended by the manufacturer. See also item 12 in the Important Safety Instructions.

Ventilation

Slots and openings in the casing of your set-top are provided for ventilation, to ensure reliable operation of your set-top and to protect it from overheating:

- Never block the ventilation openings by placing your set-top on a bed, sofa, rug or other similar surface.
- Never cover the ventilation openings with items such as newspapers, table-cloths or curtains.
- Do not place your set-top in a built-in installation such as a bookcase or rack unless proper ventilation is provided or you have adhered to the manufacturer's instructions.
- Maintain a minimum distance of 2 inches around your set-top for sufficient ventilation.

See also item 7 in the Important Safety Instructions.

Water and moisture

Do not expose your set-top to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on your set-top. See also item 5 in the Important Safety Instructions.

Entry of objects and liquids

Never push objects of any kind into your set-top through openings as they may touch dangerous voltage points or short-out parts that could result in fire or electric shock. Never spill liquid of any kind on your set-top.

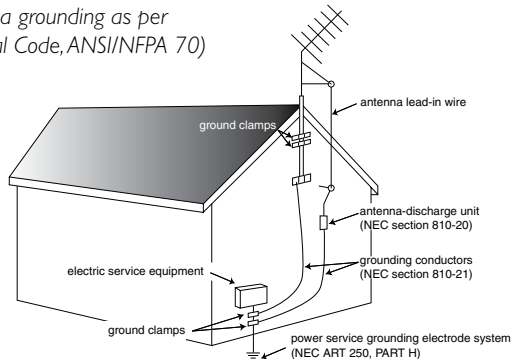
Risk of fire or scorching

Never place naked flame sources, such as lighted candles, on your set-top.

Outdoor antenna grounding

Be sure that any outside antenna or cable system connected to your set-top is grounded so as to provide some protection against voltage surges and static charges that have built up. Article 810 of the National Electrical Code (USA), 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 the diagram below.

(Example antenna grounding as per National Electrical Code, ANSI/NFPA 70)



Transporting

Move the combination of set-top and cart with care. Quick stops, excessive force and uneven surfaces may cause the combination of set-top and cart to overturn. See also item 12 in the Important Safety Instructions.

Ambient temperature

The operating temperature range of your set-top is 32-104°F. If the ambient temperature around your set-top falls outside this range, you must correct this in order for your set-top to work correctly and safely. For example, if the temperature is too high, switch on the air conditioning.

Replacement parts

When replacement parts are required, be sure that the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards. See also item 14 in the Important Safety Instructions.

Safety check

Upon completion of any servicing or repairs to your set-top, ask the service technician to perform safety checks to determine that your set-top is in its proper operating condition. See also item 14 in the Important Safety Instructions.

SAVE THIS INFORMATION FOR FUTURE REFERENCE

SAFETY ASPECTS OF CONNECTIONS

Full details of the rear panel are on page 8.

Connecting

Do not connect your set-top (or any other equipment such as a TV or VCR) to the power supply until you have properly connected all the other cables.

Your set-top operates with a 120V AC, 60 Hz power supply. Do not connect your set-top to any supply other than this.

This set-top is equipped with a two-wire power cord, with a polarized plug at one end. The other end of the cord is fitted with a polarized connector, which is shaped such that it can be fitted only one way into the power input jack of your set-top. Connect this end first, before inserting the polarized plug into the wall socket-outlet.

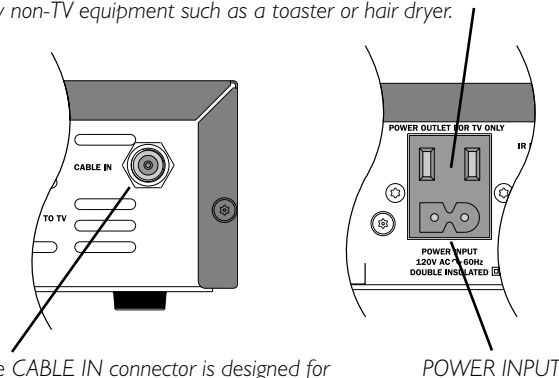
Disconnecting

Disconnect your set-top from the power supply before you disconnect any other equipment from its rear panel.

The only way to disconnect your set-top from the power supply is to remove the power cord from the wall socket-outlet. Your set-top must therefore be installed near to the wall socket-outlet, which should be easily accessible.

The **POWER OUTLET** plug is designed only for connection to the AC power cord for a **TV**. The maximum power it can supply is 500 Watts.

Do not connect any equipment that uses more than 500 Watts, or any non-TV equipment such as a toaster or hair dryer.



The **CABLE IN** connector is designed for connection to a cable network only.

You must not connect any other equipment, such as a VCR, to this input.

EPILEPSY AND ON-SCREEN IMAGES

Certain people are susceptible to epileptic seizures or losing consciousness when faced with certain types of flashing lights in our daily environment.

These people are exposed to the risk of seizures if they watch certain television images or if they view certain images while they are browsing the Web. These phenomena may appear even when the subject has no previous history of this problem or has never suffered an epileptic seizure.

If you, or a member of your family, has already suffered symptoms linked to epilepsy (seizure or loss of consciousness) in the presence of stimulation by light, please consult your doctor before using this product.

If you or any person using the equipment experiences dizziness, involuntary movements or convulsion, please immediately stop viewing and consult a doctor.

When you are browsing the Web or playing a Web-based game, take the following precautions:

- Use the equipment in a well-lit room, and turn down the brightness of your television screen.
- Sit at a reasonable distance from your television screen.
- Take a break for ten minutes every hour.

You should avoid using the Web if you are tired or have lost some sleep.

REGULATORY INFORMATION

CAUTION: Do not attempt to modify your set-top without written authorization from the manufacturer. Unauthorized modification could void your authority to operate your set-top.

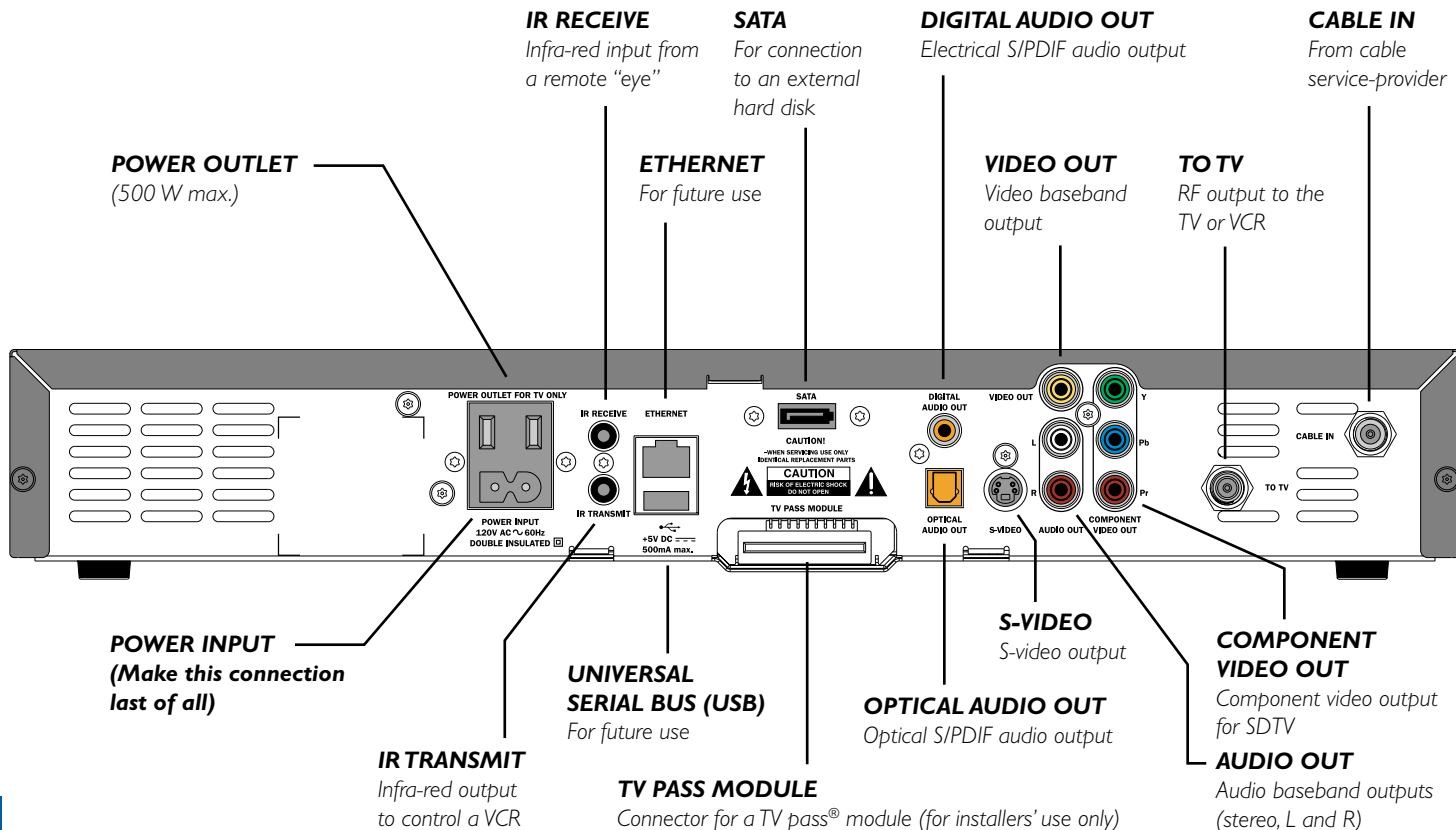
NOTE

Your set-top has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Your set-top 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 your set-top does cause harmful interference to radio or television reception, which can be determined by turning your set-top off and on, you are encouraged to try to correct the interference by one or more of the following measures:

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

REAR PANEL



CABLE IN TO TV	Connect the cable service here.	IR TRANSMIT	Connect to an optional VCR controller (for future use).
COMPONENT VIDEO OUT	If your TV has component video inputs, you can connect them to here.	IR RECEIVE	Connect to an optional remote "eye".
AUDIO OUT	Connect to the stereo audio inputs on your stereo TV, stereo VCR or optional stereo amplifier.	POWER OUTLET	Connect the TV's power cord here to provide AC power to your TV.
VIDEO OUT	Connect to the video baseband input on your VCR (or a standard TV).	POWER INPUT	Connect your set-top's power cord here.
S-VIDEO	Connect to the S-video baseband input (if present) on your VCR or TV.		
OPTICAL AUDIO OUT	Connect to the optical digital audio input on optional digital audio equipment.		
DIGITAL AUDIO OUT	Connect to the electrical digital audio input on optional digital audio equipment, such as an audio decoder or home theater receiver.		
TV PASS MODULE	Connect a TV pass [®] module, if required.		
SATA	Connect to an optional external hard disk.		
USB (Universal Serial Bus)	Connect to compatible optional equipment that supports a USB 1.1 interface, for example: a printer; digital camera, keyboard or mouse (for future use).		
ETHERNET	Connect to an optional PC network (for future use).		

CONNECTING THE EQUIPMENT

Your equipment should have been connected up by your installer. However, if you need to disconnect and re-connect your equipment, please read the information on pages 10 to 13.

On page 12 there is a typical connection set-up for a TV, VCR, DVD player and home theater receiver.

This set-up makes efficient use of the connectors on your set-top. However, depending on your other equipment and the connectors on it, the person who installed your system may have chosen to connect things up differently.

The set-up allows stereo recording and play-back of video tapes. You hear stereo sound from the home theater's loudspeakers.

Although the RF cables are not absolutely necessary, we recommend that you connect them as a back-up and so that you can use the RF bypass (but note that they will provide only mono sound to the TV and VCR).

If you also connect an optical audio connector, as shown, it means that the home theater receiver can take advantage of digital audio via your set-top's optical audio output.

WARNINGS

Do not connect your set-top (or any other equipment such as a TV or VCR) to the AC power supply until you have properly connected all the other cables.

Disconnect your set-top from the AC power supply before you disconnect any other equipment from its rear panel.

The only way to disconnect your set-top from the AC power supply is to remove the AC power cord (or switch the wall socket-outlet switch, if present, to its OFF position). Your set-top must therefore be installed near to the AC power socket-outlet, which should be easily accessible.

The power outlet is designed only for connection to the AC power cord for a TV. The maximum power it can supply is 500 Watts. Do not connect any equipment that uses more than 500 Watts, or any non-TV equipment such as a toaster or hair dryer.

The cable input is designed for connection to a cable network only. You must not connect any other equipment, such as a VCR, to this input.

Any cable connected to the DIGITAL AUDIO jack must be 75 ohm coaxial, not regular audio cable.

SET-UP - HOME THEATER SYSTEM WITH COMPONENT VIDEO / YPBPR CONNECTION

The set-up shown on page 12 uses a component video connection to connect to the TV. This displays a much higher-quality picture on the TV than can be obtained using baseband video.

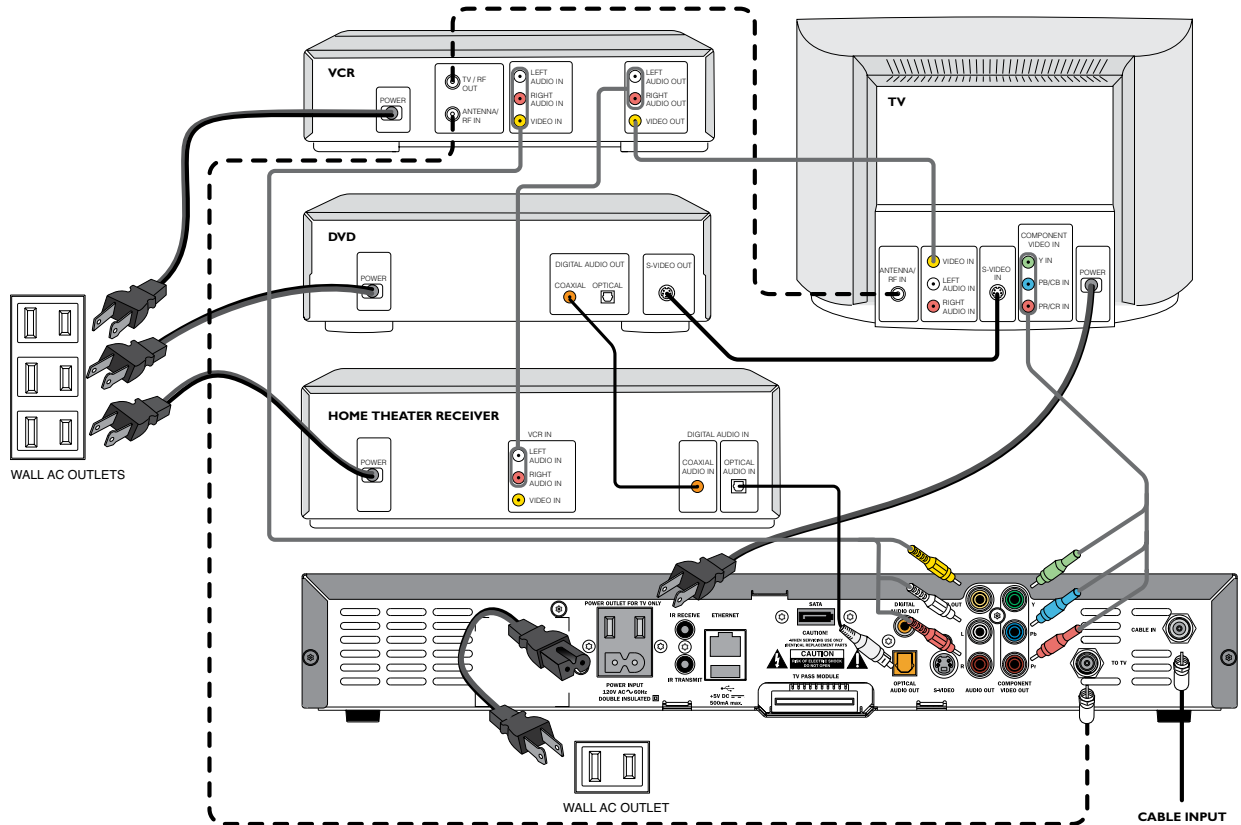
Variation

S-video also provides a better TV picture than baseband video, therefore, if the TV and VCR have S-video connectors, replace the baseband video connection with an S-video connection to the VCR, then connect directly via an S-video connection from the VCR to the TV (or loop through the home theater receiver if you prefer).

NOTE

How you set up your equipment may depend on your home theater receiver. For example, the optical and digital audio inputs may be associated with particular video inputs. Please see your home theater user information for further details.

CONNECTING THE EQUIPMENT (CONT.)



WARNINGS

Do not connect your set-top (or any other equipment such as a TV or VCR) to the AC power supply until you have properly connected all the other cables.

Do not defeat the safety purpose of the polarized plugs on power cords. A polarized plug has two blades with one wider than the other. This plug fits into the outlet in only one way; match the wide blade of the plug to the wide slot of the outlet.

CONNECTING YOUR TV TO THE AC POWER SUPPLY

If your TV has a rating of less than 500 W, connect the power cord from your TV into the connector labeled "POWER OUTLET" on the rear panel of your set-top. This saves a wall outlet (although, if your TV is rated 500 W or more, you must connect it to a wall outlet).

CONNECTING THE POWER CORD TO YOUR SET-TOP

Before you connect your set-top to a wall outlet, connect the polarized socket on the power cord into the plug labeled "POWER INPUT" on your set-top's rear panel.

CONNECTING EQUIPMENT TO THE AC WALL OUTLETS

Connect the polarized plugs on the power cords from your set-top, VCR and any other equipment into AC wall outlets. If these outlets have switches, switch them to ON.

OPERATING YOUR SET-TOP

USING YOUR REMOTE CONTROL

It is your cable TV service provider that determines the digital channels, services and screen information that you see on your TV when you use your set-top and its remote control.

Consult the information supplied by your cable operator for details on how to make the most of the digital cable services. Also read the operating instructions that are supplied with your remote control.

TURNING YOUR SET-TOP ON AND OFF

After you have connected your set-top to the AC wall outlet (and switched this outlet ON, if it has a switch), the **POWER** LED on your set-top's front panel should be red.

Wait for a few seconds, then press the **power** button on the remote control to turn your set-top on. The **POWER** LED goes from red to blue, to show that your set-top is on.

If the **POWER** LED is neither red nor blue, there is a problem.

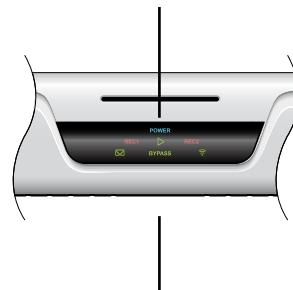
To turn your set-top on or off at any time, press the **power** button on the remote control (making sure the remote control is set to control the set-top).

NOTES

It is important that, unless there is a lightning storm or you will be away from your home for a long time, you do not unplug your set-top at the wall AC outlet (or do not switch it off there, if the outlet has a switch). Your set-top can not be updated with new features, through the cable, if it is disconnected from the AC power supply.

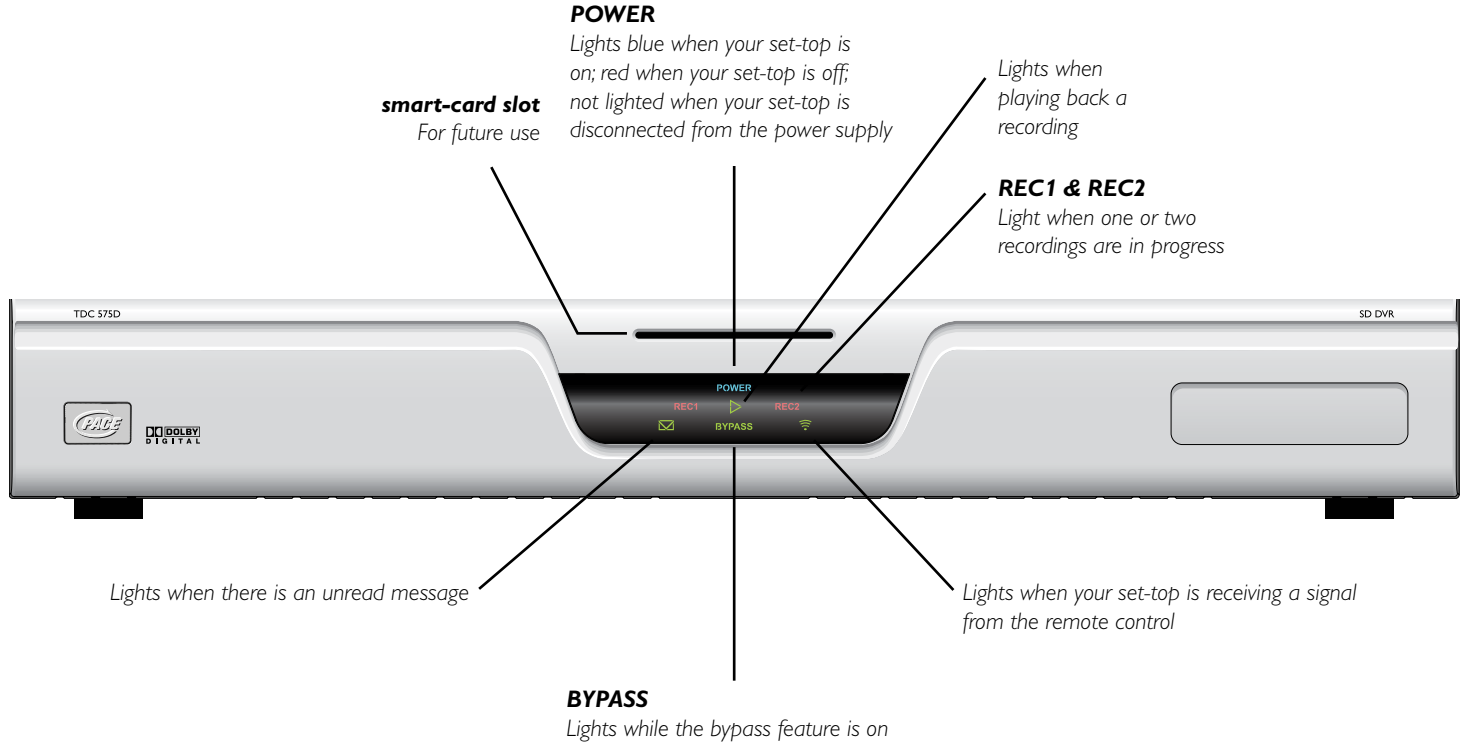
Depending on your set-top's settings, if you switch your set-top off, any TV that is attached to your set-top's POWER OUTLET may also turn off. For more details, see page 19.

When your set-top is turned on, the **POWER LED** changes from red to blue.



Front-panel display

YOUR SET-TOP'S FRONT PANEL



YOUR SET-TOP'S DVR FUNCTIONS

Your set-top has an internal hard disk that is used to record and play back television programs, giving you much more control of your viewing experience. For example, you can pause live television and resume viewing from the point at which you left off. You can also use your set-top to record your favorite programs, and you can watch one program while recording another.

With your set-top you can:

- Pause live TV.
- Instantly replay live TV.
- Fast forward up to the point of live TV.
- Watch a scene in slow motion.
- Rewind through a program you have been watching.
- Record digital video.
- Record one program while watching another.
- Record two programs while watching a previously recorded program.
- Schedule your set-top to record a program or a whole series.
- Fully manage your stored recordings.
- Back up your digital recordings to a VCR.
- Retain full control over any parental viewing restrictions you have set up.

You control the set-top's DVR functions using your remote control; consult the information supplied by your cable operator for more details. Also read the operating instructions that are supplied with your remote control.

NOTE

The exact functionality of the DVR (digital video recorder) in your set-top depends on your on-screen program guide. For more details, consult the information supplied by your cable operator.

USING RF BYPASS

You use RF Bypass to watch the regular (analog) channels that are included in the cable service. RF Bypass makes these channels “bypass” your set-top and pass directly to the TV and/or VCR.

To use RF Bypass:

- Your set-top must be installed with the correct connections from the rear panel to the TV or VCR (see the note, right), and must be turned **on**;
- The RF Bypass feature must be switched to “On” in the Setup menu (see page 19).

Each time you want to use RF Bypass, you then press the **BYPASS** button on your remote control. The **BYPASS** LED lights up on the front panel of your set-top.

When you have finished using RF Bypass, press the **BYPASS** button again.

When RF Bypass is on: you can use the TV’s remote control to tune to any of the available regular (analog) channels and watch that channel on your TV. This may be a different channel from the channel that your set-top is tuned to. You can record on your VCR the channel that your set-top is tuned to. This means that, when the bypass is on, you can watch a regular (analog) channel on your TV and, at the same time, record a *different* channel on your VCR.

When RF Bypass is off: the channel that you see on your TV is the channel that your set-top is tuned to. This is the same channel that your VCR receives. So, when RF Bypass is off, you can record only the channel that you are watching on your TV.

NOTES

If you are not sure whether your set-top has been set up to allow RF Bypass, check your installation. If there is a cable (RF cable) going from the TO TV connector on your set-top’s rear panel to your TV (or to your VCR and TV, as shown by the dashed line on page 12) then RF Bypass is correctly set up.

LIGHTNING STORMS

Occasionally, a lightning storm may affect your set-top. It may appear that it has stopped working, but you can easily restore its operation as follows.

Unplug your set-top's power cord at the wall AC outlet. Then plug this power cord in again at the wall AC outlet (and, if there is a switch by this outlet, switch it to its ON position).

The Setup menus allow you to make settings to control how your set-top works. These are available from your TV Guide and should be fully described in the information provided by your service provider. There may also be on-screen information to explain these menus.

However, please note there are certain items and settings that may affect how your set-top and TV work. See the table below for information about these.

Item	Setting	Options	Notes
Cable Box Setup	AC Outlet	Switched, Unswitched	If setting is “Switched”, the AC outlet on your set-top’s rear panel is <i>on</i> when your set-top is <i>on</i> , and <i>off</i> when your set-top is <i>off</i> , so any TV that is therefore receiving its power from this AC outlet will switch off when your set-top is turned off. If setting is “Unswitched”, the AC outlet is <i>always on</i> , so any TV that is receiving its power from this AC outlet will continue to receive power whether your set-top is switched on or off.
	RF Bypass	Off, On	You must set this to “On” in order to use RF Bypass. For information about RF Bypass, see page 17.
	Configuration		Allows you to view the configuration of your set-top.
Audio	Default Audio Track	Channel Default, English, Español, Français, Português	Set the language track that your set-top first attempts to use when tuning to a channel. “Channel Default” means your set-top will use the default audio track for the program. Selecting a language means it will use the corresponding language track, if available.
	Audio Output	TV Speakers, Stereo, Advanced	If you select “Advanced”, further settings are displayed, allowing you to set the Compression (to None, Light or Heavy) and the Stereo Output (to Mono, Stereo or Matrix Stereo).
Screen position			This allows you to adjust how the picture displays in the TV screen.

Other items and options may be available on these screens. The menus may be subject to change in the future, as your set-top advances with new technology.

SOLVING PROBLEMS

If the installed system does not seem to be working properly, first make sure that all the cables are securely connected, then carry out the following checks, in the order shown:

Check	Suggested solution	Further checks, if there is still a problem
<p>Is anything lighted on your set-top's front panel?</p> <p style="text-align: center;">YES ▼</p> <p style="text-align: right;">NO ►</p>	<p>Power may not be reaching your set-top. Make sure that the power cord is properly plugged in. If there is a switch by the wall AC power outlet, switch it to ON.</p>	<p>Check that the wall AC power outlet is working (for example by plugging in a lamp).</p>
<p>Does the remote control operate your set-top?</p> <p style="text-align: center;">YES ▼</p> <p style="text-align: right;">NO ►</p> <p>Please see the next page.</p>	<p>Your set-top may not be turned on.</p> <p>Check if the POWER LED on the front panel is blue. If it is red, press the POWER button on the remote control to turn on your set-top.</p>	<p>Check that nothing is blocking the path from your remote control to the front panel.</p> <p>Check that your remote control is currently set to operate your set-top (consult the instructions supplied with your remote control).</p> <p>If your remote control will still not operate your set-top, replace the batteries in your remote control.</p>

Check	Suggested solution	Further checks, if there is still a problem
<p>Can you see a picture on your TV screen?</p> <p style="text-align: center;">YES ▼</p> <p style="text-align: right;">NO ►</p> <p>Please see the next page.</p>	<p>Your TV and other equipment may not be turned on. Check that they are plugged into AC power outlets and turned on.</p> <p>Note: If you have connected your TV to the POWER OUTLET (AC outlet) on your set-top, when you turn off your set-top, your TV may turn off automatically, if the “AC Outlet” is set to “Switched” (see page 19). You may wish to keep this feature, or you may wish to set “AC Outlet” to “Unswitched”.</p>	<p>Make sure the bypass feature is turned OFF (the BYPASS LED on the front panel is not lighted).</p> <p>Check that you have selected the appropriate AV input on your TV: COMPONENT VIDEO (YPbPr) or VIDEO IN (depending on how your system is connected up).</p> <p>If the video path between your set-top and your TV loops through other equipment (such as a VCR) you may need to turn off this equipment for the loopthrough to work.</p>

SOLVING PROBLEMS (CONT.)

Check	Suggested solution	Further checks, if there is still a problem
<p>Is there any sound?</p> <p style="text-align: center;">YES ▼</p> <p style="text-align: right;">NO ►</p>	<p>Check that the audio cables are securely and correctly connected.</p>	<p>Check that you have not muted the sound on your set-top and/or TV. Adjust the volume control on your set-top and/or TV. If you are using a home theater, check it is set up correctly.</p>
<p>Can you hear stereo sound?</p> <p style="text-align: center;">YES ▼</p> <p style="text-align: right;">NO ►</p>	<p>First check that the program is likely to have stereo sound (an old movie, for example, may not be in stereo).</p> <p>Check the TV Guide Setup Menu, Audio settings (see page 19). The Stereo Output may be set to "Mono". Change it to "Stereo".</p>	<p>If the TV is mono, you will only hear stereo sound if you have a stereo audio amplifier and speakers or home theater connected to the stereo VCR or set-top. This is also the case if the stereo TV has only an RF input.</p>
<p>Can you see only regular (analog) channels but not any digital channels?</p> <p style="text-align: right;">YES ►</p>	<p>The bypass feature may be turned on. Press the BYPASS button on your remote control to turn the feature OFF (make sure the BYPASS LED is not lighted on the front panel).</p>	

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