

# USER GUIDE Pace RNG210N

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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 the power supply





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.

To ensure correct operation, use this set-top only with the Pace-approved power supply unit provided. If you use an unapproved alternative, you will invalidate the warranty.

## 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 move your set-top while it is connected to the power supply. If you want to move your set-top, first stop any recording, then turn off your set-top and wait 60 seconds before disconnecting it. 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 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.

## 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.

Service address:

Pace Americas Inc.

3701 FAU Boulevard, Suite 200, Boca Raton, Florida 33431 U.S.A.

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

#### Power sources

The model number, serial number, and electrical rating of this set-top are on a label on its base.

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 AC 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.

### 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

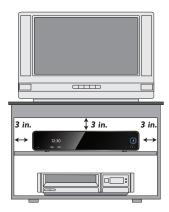
temperature is too high, make sure there is sufficient ventilation (see below) and that your set-top is not directly on top of or underneath other equipment.

### **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. Place it on a hard, flat surface.
- Never cover the ventilation openings with items such as newspapers, table-cloths, or curtains.
- You can place your set-top near other consumer electronics devices, such as stereo amplifiers or televisions, but you must not place it directly on top or underneath them.
- Do not place your set-top in a builtin installation such as a bookcase or rack unless proper ventilation is provided and you have adhered to the manufacturer's instructions.
- Maintain a minimum distance of three 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 rain or moisture, 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.

### **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.

### 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.

### Risk of fire or scorching

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

### 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 pages 8 and 9.

### 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 is designed for use only with the power supply unit provided.

On the power supply unit there is a label that specifies the correct AC power supply input for it. Do not connect the power supply unit to any supply other than this.

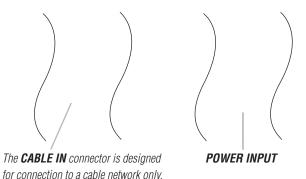
Always connect the 15 volt DC cord from the power supply unit to your set-top before you insert the AC power cord from the power supply unit into the wall AC outlet.

## **Disconnecting**

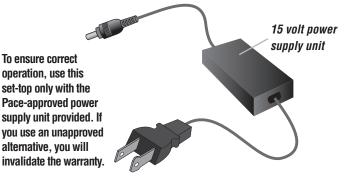
To disconnect power from your set-top, always detach the power supply unit from the wall AC outlet (rather than remove the 15 volt cord from your set-top).

Therefore you must install your set-top near to the wall AC outlet, which should be easily accessible.

If you are in any doubt about the power supply cord, its plug or its connection, consult a qualified electrician.



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



## 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.

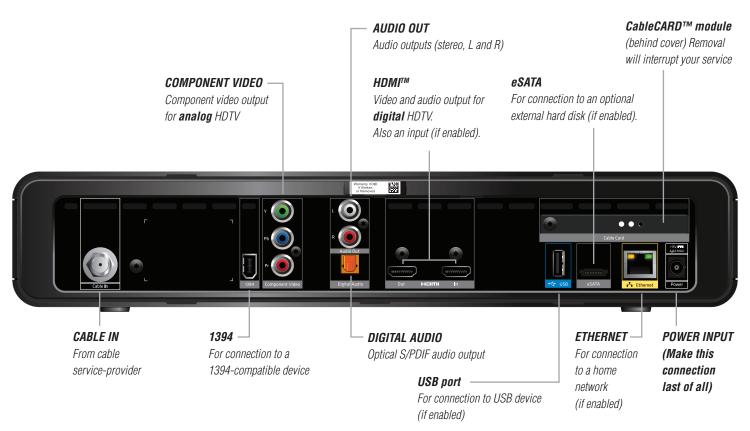
### NOTE

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**



## **REAR PANEL (cont.)**

CABLE IN Connect the cable service here.

Connect to a TV with a 1394 port or to any other 1394-compatible device.

COMPONENT VIDEO

If your HDTV does not have an HDMI connector, connect your HDTV here.

AUDIO OUT Connect to the L and R audio inputs on your stereo TV, stereo VCR, or optional stereo amplifier.

DIGITAL AUDIO Connect to the **optical** digital audio input on optional digital audio equipment, such as an audio decoder or home theater

receiver.

HDMI Out Connect your HDTV here for a **digital** audio/video connection (instead of using the component video connectors).

HDMI In If this connector is enabled by your cable service-provider, you can connect another HDMI device (allowing that device's

output to loop through the set-top to the TV).

CableCARD module Removal will interrupt your service.

• USB port If this port is enabled by your cable service-provider, you can connect compatible optional equipment that supports a USB

2.0 interface.

eSATA If this connector is enabled by your cable service-provider, you can connect an optional external hard disk.

ETHERNET If this connector is enabled by your cable service-provider, you can connect your set-top into an Ethernet home network.

+15V POWER Connect your set-top's power supply unit here. **Make this connection last of all**.

## **CONNECTING THE EQUIPMENT**

In order for you to view programs broadcast in high-definition, your set-top must be connected to a suitable HDTV or computer monitor.

Your equipment should have been connected up by your installer. However, if you need to disconnect and reconnect your equipment, read pages 10 through 14.

On pages 12 and 13, there are two typical connection setups for an HDTV, DVD player, and home theater receiver.

These setups make 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 differently.

Both setups allow play-back of DVDs. You hear stereo sound from the home theater's loudspeakers.

You can take advantage of the digital audio output from your set-top by connecting a suitable cable between your home theater receiver and the DIGITAL AUDIO connector (as shown in the diagram).

### WARNINGS

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.

Disconnect your set-top's power supply unit 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 power supply unit from the wall AC outlet (or switch the wall AC outlet switch, if present, to its OFF position). Your set-top must therefore be installed near to the wall AC outlet.

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.

# Setup A - Home theater system with HDTV (HDMI connection)

Setup A (see page 12) uses an HDMI connector to connect to the HDTV. This displays the highest quality picture on the HDTV and also means there will be no picture degradation on any copy-protected programs (provided the link remains secure — see right).

# Setup B - Home theater system with HDTV (Component video / YPbPr connection)

Setup B (see page 13) uses a component video connection to connect to the HDTV. This displays a high definition picture on your TV.

### NOTE

How you set up your equipment may depend on your home theater receiver. For example, the optical audio input may be associated with a particular video input. Consult your home theater user guide for further details.

### NOTE

# Copy protection via an HDMI secure link

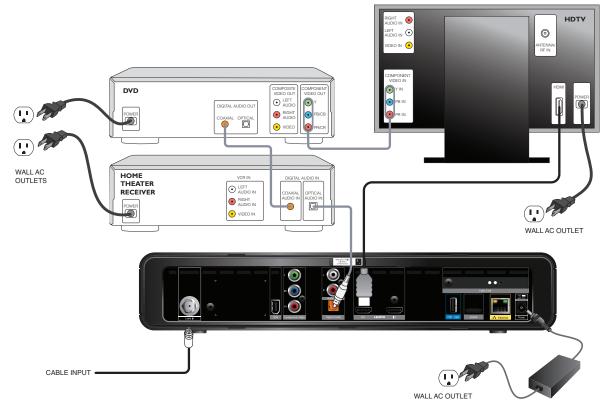
The HDMI link between your settop and your HDTV should be a secure link. When your set-top is attached via an HDMI cable to an HDCP-compliant (High-bandwidth Digital Content Protection) HDTV, the HDTV and set-top negotiate a secure link, which allows your set-top to transmit full resolution video (picture) to your HDTV.

Not all HDTVs support HDCP. If your set-top is connected to an HDTV that does not support it, you may see a solid-red screen or a message similar to the following:

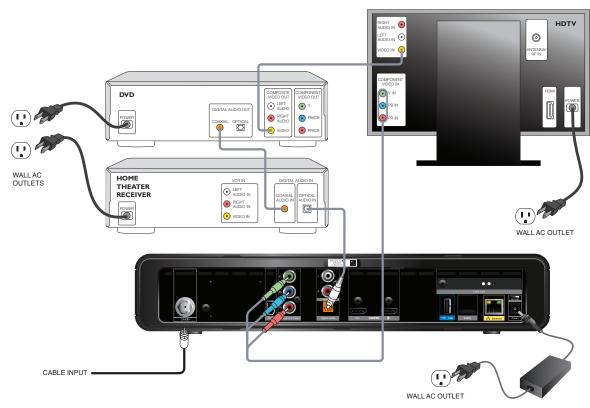
Your HDTV does not support HDCP. Please use the YPbPr component connection to watch TV.

The HDMI output is then disabled, so no picture is transmitted from this connector. In that case, use the component video connectors to connect up (see Setup B).

# Setup A: (HDMI)



## **Setup B: (Component video)**



### 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 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.

## Connecting the power supply unit to your set-top

Before you insert the power supply unit into the wall AC outlet, connect the 15 volt DC cord from the power supply unit to the socket labeled "+15 V 4.0 A MAX" on your set-top's rear panel.

## Connecting equipment to the wall AC outlets

Connect your set-top's power supply unit, and the plugs on the power cords from your TV, DVD, and any other equipment, into wall AC outlets. If these outlets have switches, switch them ON.

## **Lightning storms**

Disconnect your set-top's power cord during lightning storms. A lightning storm may affect your set-top, if it is on during the storm. It may appear that it has stopped working, but you can easily restore its operation as follows:

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

## Turning your set-top on and off

After you have connected your set-top's power supply unit to the wall AC outlet (and switched this outlet ON, if it has a switch), press the **POWER** button on your remote control to turn your set-top on (you will need to pair your remote control with your set-top first - see page 16). The  $\circlearrowleft$  (power) light on your set-top's front panel should light up blue, to show that your set-top is on.

To turn your set-top on or off at any time, press the **POWER** button on your remote control.

Never turn off your set-top by simply disconnecting it from the power supply. If you need to disconnect your set-top, first stop any recording (if applicable). Then turn off your set-top by pressing the **POWER** button on your remote control, so that the  $\Phi$  (power) light goes off. Then wait 60 seconds before removing the power supply unit from the wall AC outlet.

Power Saving: To save power and money, and to reduce greenhouse gas emissions, turn off your set-top, using the power button, when it is not in use.



## Pairing your remote control with your set-top

Before using your set-top with your TV, you must pair your remote control with your set-top.

- 1. Put the two AA batteries provided into your remote control.
- 2. Turn on your TV and set-top.
- 3. Press and hold the two buttons (the **select** buttons) on the front of your set-top. You'll see a message on your TV showing you that your set-top is trying to pair with a remote control. Your TV shows you which two buttons to press on your remote control.
- 4. Press and hold the two buttons on your remote control, as instructed on your TV screen. You'll see a message on your TV confirming that your remote control has been paired with your set-top.

### NOTE

If you don't complete the process within two minutes, you'll have to start again. Pressing **EXIT** on your remote control also ends the pairing process.

### **NOTES**

Your cable TV service-provider 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 service-provider 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.

## **FRONT PANEL**



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