AR

Home Theater
Power Station
with **SPEED**PASS™

User Guide

Important Information

This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.

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. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.

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.

This symbol indicates important instructions accompanying the product.

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 product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

16. This device must be plugged into a grounded outlet.

17. The mains plug must be accessible at all times.

Chapter 1: Introduction to the Home Theater Power Station

Chapter 2: Setting Up the A/V Pass-Through Jacks

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Chapter 3: Setting Up the Ethernet Switch

Chapter 4: Setting Up Your Home Theater Power and Signal Input

Chapter 5: Using the PW1000 Front Panel

Chapter 6: Additional Information

Chapter 1   Introduction to the
Home Theater Power Station

Welcome to the PW1000 Home Theater Power Station! This manual has everything you need to set up and use the PW1000. This first chapter provides an introduction to what the PW1000 does and how it does it, covering the following topics:

» **What does the PW1000 do for my home theater?**
+ Performance + Protection: Power Conditioning and Surge Protection
+ Convenience: SpeedPass A/V Pass-Through Inputs and Outputs
+ Internet/Network Connectivity: Five-Port Ethernet Switch

» **Tour of the PW1000**
+ Power & Charging / Protected Outlets
+ SpeedPass Pass-Through Inputs and Outputs
+ Ethernet Switch

3

What does the PW1000 do for my home theater?

The PW1000 provides power conditioning and surge protection for high performance home theaters. But it also serves as the central gateway to your home theater's connectivity, with breakthrough design and features that answer the three crucial demands for modern home entertainment.

Performance + Protection: Power conditioning and surge protection

Convenience: SpeedPass A/V inputs and outputs

Internet / Network Connectivity: Five-port Ethernet switch

Performance + Protection

Power Conditioning

Regular home AC power has a lot of impurities—noise, interference from household appliances, and other irregularities. This is what "dirty power" means, and it can compromise the performance you get from your components: you might notice the picture is not as clear or the sound is not as crisp as you'd expect.

The PW1000 uses AR PureCurrent™ power conditioning technology to make sure the power that gets to your components is as clean as possible. It removes impurities and interference, giving your home theater pure, reliable power for peak performance: the best picture and sound your electronics can deliver.

Surge Protection

Large spikes in current are what most of us think of when we think of surge protection. But smaller surges and spikes happen all the time in normal household power. These small surges and spikes can result from other devices

on a circuit, fluctuations in the current from your power company, even environmental factors like sunspots. While large power spikes can put a dramatic end to your electronics' lives, the smaller fluctuations can shorten the lives of electronics by subjecting their internal circuitry to undue stress.

The PW1000 protects your home theater equipment from both kinds of spikes and surges, the big ones and the small ones. And because the PW1000 uses high performance surge protection components, it provides a level of protection that far surpasses most regular surge protectors on the market.

Convenience

### SpeedPass A/V Inputs and Outputs

Home entertainment has become much more than just Blu-ray, TV, and satellite or cable. Lots of portable devices want to get to the big screen and speakers too. SpeedPass puts access to the big screen or speakers right on the front of your home entertainment system—just bring your portable device and plug in to the PW1000 front panel. It's just that easy.

Internet / Network Connectivity

Five-Port Ethernet Switch

The Internet has definitely arrived in the home theater. And the PW1000 is the first home entertainment product to address the increasing need for network connectivity for TVs, Blu-ray players, gaming systems, satellite receivers, and more. You may have already found out the hard way that wireless networks are great for surfing the web and checking e-mail, but they are not reliable or robust enough to support the kind of rich audio and video streaming that movies and other on-demand media require. Nothing beats a wired connection for speed and reliability. And the PW1000 provides the connections for your whole home theater...and more.

Chapter 1: Introduction

Front Panel
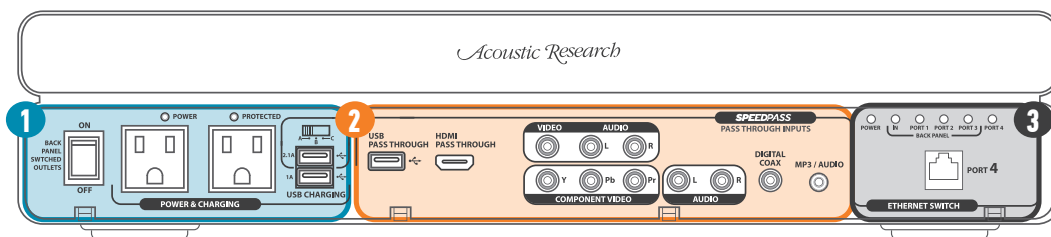
Back Panel
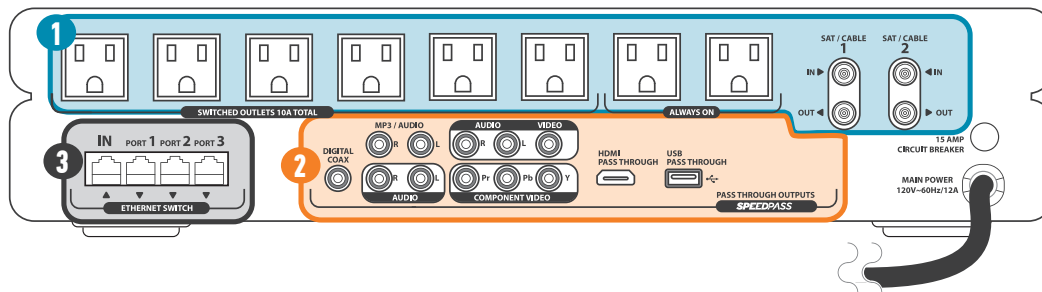
Tour of the PW1000

The front and back panels of the PW1000 offer jacks, outlets, and ports for a variety of uses in your home theater. These jacks, outlets, and ports are grouped together according to their use. The facing page maps out these different regions on the front and back panels.

① Power and Charging / Protected Outlets

Front and back panel AC and USB power outlets and coaxial jacks that provide surge protection and power conditioning for connected components.

② SpeedPass™ Pass Through Inputs and Outputs

Front panel audio/video jacks that pass their signal through to corresponding back panel audio/video jacks. The signal goes directly to the home theater component that's connected to those jacks.

③ Ethernet Switch

Network connectivity for up to five connected Internet devices. The input for your modem is on the back panel, along with three of the Ethernet output ports. The fourth Ethernet output port is on the front panel, for easy access by devices that are just visiting your home theater.

The following sections show you where these jacks, outlets, and ports are located and explains briefly how each works.

> **Note:** The outlets and jacks on the front panel of the PW1000 are covered by a door. To access these jacks and outlets, press down on this door.

Power and Charging / Protected Outlets

Both the front and back panels of the PW1000 have AC power outlets. The power outlets on the back of the PW1000 are designed more for use with that are more or less permanent fixtures in your home theater. The front power outlets and charging ports are designed for the electronics you take in and out of your home theater frequently.
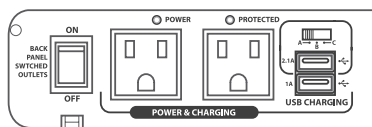
Front Panel

BACK PANEL SWITCHED OUTLETS switch controls the outlets labeled SWITCHED OUTLETS on the back panel of the PW1000. The outlets labeled ALWAYS ON on the front and back panels are not controlled by this switch.

POWER & CHARGING outlets offer always-on AC and USB power for devices that are just visiting your home theater.

AC outlets offer standard AC power that's always on when the PW1000 is plugged into a working power source.

USB CHARGING ports offer charging power for portable devices that use USB to charge, like tablets, smartphones, MP3 players, and more. The top outlet is optimized for tablets and other large portable devices that require more power to charge at full speed. The switch above this top outlet configures the top outlet for your specific device (see page 39 for more information).

POWER indicator light shows that the PW1000 is operational.

PROTECTED indicator light shows that your components are protected from harmful surges.
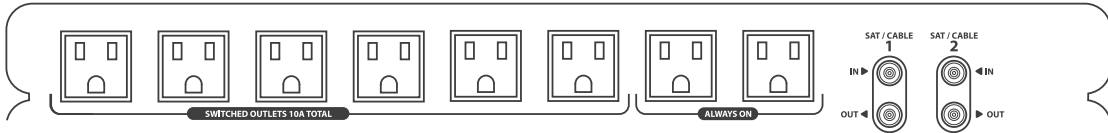
Back Panel

SWITCHED OUTLETS are controlled by the BACK PANEL SWITCHED OUTLETS switch on the front panel, designed for use with components you want to turn off completely every night. The components plugged into these outlets are always protected from surges, regardless of whether they are switched on or off.

ALWAYS ON outlets always have AC power when the PW1000 is plugged into a working power source.

SAT/CABLE 1 and SAT/CABLE 2 jacks let you use the PW1000 to protect your satellite and/or cable box and TV from harmful surges that might occur on the coaxial cable carrying this signal into your house. The IN and OUT jacks pass the entire signal through, unaltered.

15 AMP CIRCUIT BREAKER (not shown) lets you reset the surge protection circuitry if it has been triggered. See page 44 for more information about using this switch.

Chapter 1: Introduction

SpeedPass™ Pass-Through Inputs and Outputs

The SpeedPass outlets offer front-panel connections for virtually any portable device, right into your home theater. They work by passing the signal from the front jack through to corresponding back panel audio/video jacks. The signal goes directly to the home theater component that's connected to those jacks. SpeedPass jacks work in groups—each front group of jacks corresponds to a back group of jacks. So, that's the way they are presented here.
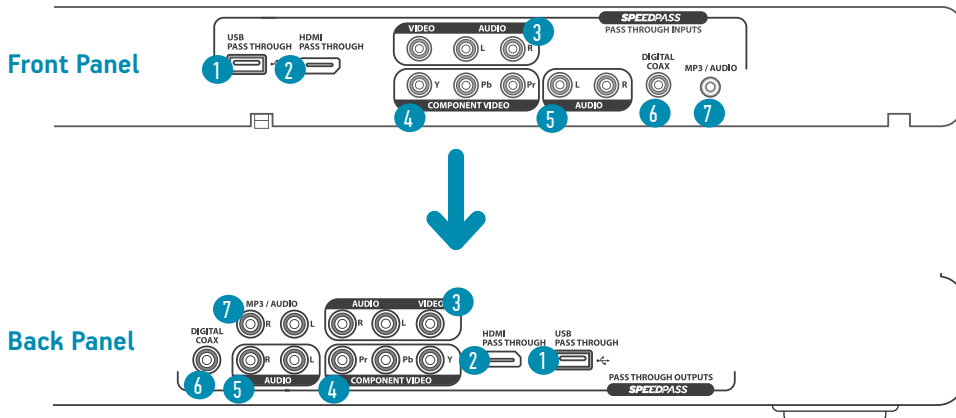
1 **USB PASS THROUGH** port routes the audio, video, and/or data from your portable device through to the USB PASS THROUGH jack on the back of the PW1000. It's a direct link to the home theater component you have connected to that jack.

2 **HDMI PASS THROUGH** jack routes the high-definition video and digital audio from your portable device through to the HDMI PASS THROUGH jack on the back of the PW1000. It's a direct link to the home theater component you have connected to that jack.

3 **VIDEO and AUDIO (L/R)** jacks route the video and/or audio from your portable device through to the corresponding VIDEO and AUDIO jacks on the back of the PW1000. For example, if you've connected the VIDEO and L and R audio jacks on the back of the PW1000 to an input on your TV, the VIDEO and AUDIO jacks on the front will go directly to that input on your TV. They're a direct link to the home theater component you have connected to those jacks.

4 **COMPONENT VIDEO** jacks route the component video signals from your portable device through to the COMPONENT VIDEO jacks on the back of the PW1000. For example, if you've connected the COMPONENT VIDEO jacks on the back of the PW1000 to an input on your TV, the COMPONENT VIDEO jacks on the front will go directly to that input on your TV. They're a direct link to the home theater component you have connected to those jacks.

5 **AUDIO** jacks route the audio from your portable device through to the AUDIO jacks on the back of the PW1000. For example, if you've connected the AUDIO jacks on the back of the PW1000 to an input on your TV, the AUDIO jacks on the front will go directly to that input on your TV. They're a direct link to the home theater component you have connected to those jacks.

6 **DIGITAL COAX** jack routes digital audio from your portable device through to the DIGITAL COAX jack on the back of the PW1000. It's a direct link to the home theater component you have connected to that jack.

7 **MP3 / AUDIO** jack routes the stereo audio from your portable device through to the MP3/AUDIO jacks on the back of the PW1000. It's a direct link to the home theater component you have connected to those jacks.

Chapter 1: Introduction

Ethernet Switch

The PW1000 can act as your home network switch, offering network connectivity for up to five connected Internet devices. The input for your modem is on the back panel, along with three of the Ethernet ports. The fourth Ethernet port is on the front panel, for easy access by devices that are just visiting your home theater.
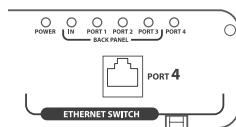
Front Panel

POWER indicator shows that the PW1000 is plugged in and working.

BACK PANEL (IN, PORT 1, PORT 2, PORT 3) indicators show that there is network activity on the device shown.

PORT 4 indicator shows that there is network activity on the front Ethernet port.

PORT 4 is a network connection port for the switch. This front port is for network devices you want to connect occasionally to your home network.
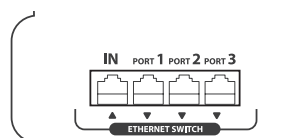
Back Panel

IN jack is the connection port for your network's signal source, like a modem.

PORT 1, PORT 2, PORT 3 jacks are network connection ports for the switch. These back ports are for network devices you want to keep connected to your home network on a more or less permanent basis.

Chapter 2   Setting Up the A/V Pass-Through Jacks

The PW1000 serves as an all-in-one gateway for your home theater, with quick and easy access for portable devices. SpeedPass pass-through inputs put access to the big screen or speakers right on the front of your home entertainment system—just bring your portable device and plug in to the PW1000 front panel. This chapter shows you how to set up the PW1000 to use SpeedPass, with the following topics:
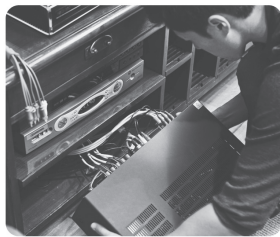
» **What is SpeedPass?**
+ How SpeedPass works

» **Setting Up: 2 Options**
+ TV + A/V Receiver
+ TV Only (or TV + Sound System)

SpeedPass eliminates *this...*

What is SpeedPass?

SpeedPass makes it quick and easy to connect portable devices, like camcorders, gaming systems, tablets, and MP3 players, to your home theater. SpeedPass brings connections for these devices to the front of your home theater setup—no more crawling behind your TV and other components, hunting in dark, cramped spaces for the right jacks to watch your new home movie. AR SpeedPass puts the jacks you need right where you need them. The following sections explain how it works.

How SpeedPass works

So, you've got everything in your home theater connected and running smoothly—the HDTV, Blu-ray player, satellite receiver or cable box, maybe an A/V receiver or sound system. All hooked up and ready to go.

But what happens when you try to add something temporarily to the mix? Say, a new video from your camcorder, or a song from your MP3 player? You soon discover that it's not so easy to add to (or subtract from) your home theater. The problem is: these days, portable devices are everywhere, especially in your living room. That's where SpeedPass comes in...

Your home theater *before*

Your home theater *with SpeedPass*
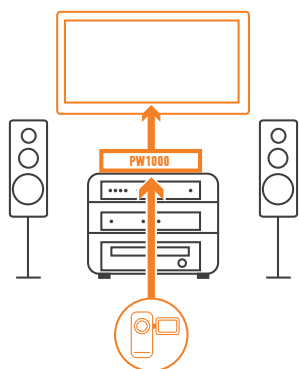
SpeedPass brings all your home theater connections to the front of your home theater, where you can get to them instantly, whenever you want. And once you've connected, the video and audio from your portable device goes directly to the big screen and speakers of your home theater. All you have to do is connect your home theater to the jacks on the back of the PW1000.
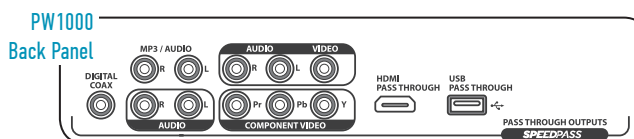
PW1000
Back Panel

This chapter shows you how.

Chapter 2: Setting Up the A/V Pass-Through Jacks

Setting Up: 2 Options

The way you set up the PW1000 for SpeedPass depends on the way you have your home theater configured. Home theaters come in lots of shapes and sizes. This chapter presents two common connection scenarios: one with a TV and A/V receiver and one with a TV only. The TV Only connection option can also be used for setups where just the sound is run through a separate audio system (like a sound bar).

	I WATCH...	I LISTEN...	I SWITCH components...	For instructions...
TV + A/V Receiver	On the TV	On the A/V Receiver	On the A/V Receiver	Go to page 17
TV Only (or TV + Sound System)	On the TV	On the TV (or on a separate sound system)	On the TV	Go to page 22
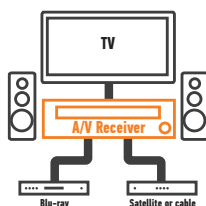
TV + A/V Receiver

These connection instructions are for home theaters where all signals go through the A/V receiver. That means that you will be connecting the PW1000 back-panel SpeedPass outputs to the A/V receiver only. This section explains what to connect to each PW1000 back panel output.

IMPORTANT: Remember that the more jacks you connect on the PW1000, the more jacks you'll have available on the front of the PW1000 for connecting portable devices.

BEFORE YOU START: Decide which inputs to use and write them down.

Inputs can be tricky to remember—did you use HDMI2 or HDMI3? If you plan out your connections beforehand and write them down, life will be much simpler later when you're ready to watch that new vacation video from your camcorder on the TV.
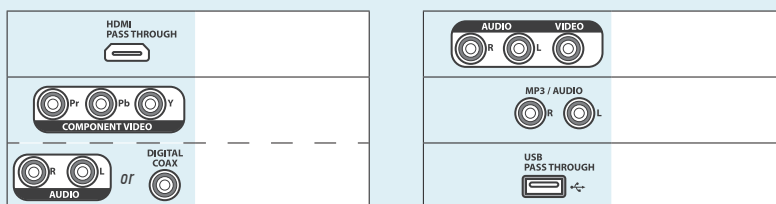
TV+A/V Receiver
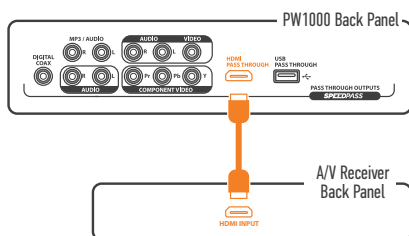
HDMI (TV + A/V Receiver)

The PW1000 offers one pass-through HDMI SpeedPass connection from the front to the back HDMI jacks.

To use the HDMI SpeedPass: Connect an available HDMI input on your A/V receiver to the HDMI PASS THROUGH output on the back of the PW1000, as shown here.

> **IMPORTANT:** *Make sure you make a note of the inputs you're using for each connection.*

PW1000 Back Panel

A/V Receiver
Back Panel

Component Video and Stereo Audio/Digital Coax Audio (TV + A/V Receiver)

The PW1000 offers one set of pass-through Component Video jacks on the front and back of the unit. The Component Video jacks carry video only, so you will need to connect a set of audio jacks in addition to the Component Video jacks on the back of the PW1000 to hear the audio from this source on your A/V receiver.

There are two choices for connecting the audio to accompany the component video jacks:

- Stereo audio (left and right) cables carry 2-channel stereo audio
- Digital coaxial cables carry digital audio, including 5.1 Surround Sound (when available)

To set up the Component Video and Audio SpeedPass:

1. Make the video connection.

Connect one set of cable ends from a component video cable to the COMPONENT VIDEO output jacks on the back of the PW1000.

Connect the other set of cable ends to an available set of Component Video input jacks on the back of your A/V receiver. Make sure you match the colors of the cables to the colors of the jacks (green to Y, blue to Pb, red to Pr).

2. Make the audio connection.

Choose one of the audio options, stereo audio or digital coax. Then connect one end of the cable(s) to the corresponding output jack on the back of the PW1000, and connect the other end of the cable(s) to the corresponding input jack on the back of your A/V receiver.
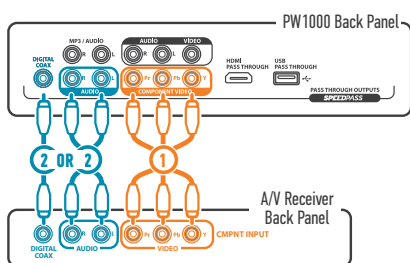
IMPORTANT: *Make sure you make a note of the inputs you're using for each connection.*

Chapter 2: Setting Up the A/V Pass-Through Jacks

TV+A/V Receiver

Composite Video and Stereo Audio (TV + A/V Receiver)

The PW1000 offers one set of pass-through Composite Video and Stereo Audio jacks on the front and back of the unit.

To set up the Component Video and Audio SpeedPass:

1. Make the video connection.

Connect one end of a composite video cable to the VIDEO output jack on the back of the PW1000. Connect the other end to an available Video input jack on the back of your A/V receiver.

2. Make the audio connection.

Connect one set of plugs from a stereo audio cable to the STEREO AUDIO output jacks next to the VIDEO jack on the back of the PW1000, and connect the other set of plugs to the audio input jacks next to the video input you used on the back of your A/V receiver.

IMPORTANT: *Make sure you make a note of the inputs you're using for each connection.*

PW1000 Back Panel

A/V Receiver
Back Panel
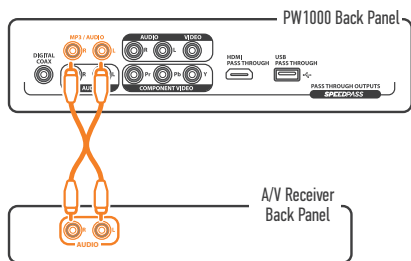
MP3 Audio (TV + A/V Receiver)

The PW1000 offers a set of MP3 audio pass-through jacks on the front and back of the unit. The jack on the front is a single 3.5mm stereo audio jack, commonly used on portable audio devices. The jacks on the back are a stereo pair (left and right).

To set up the MP3 Audio SpeedPass: Connect one set of plugs from a stereo audio cable to the MP3/AUDIO jacks on the back of the PW1000, and connect the other set of plugs to an available set of audio input jacks on the back of your A/V receiver.

IMPORTANT: *Make sure you make a note of the inputs you're using for each connection.*

USB (TV + A/V Receiver)

The PW1000 offers a set of pass-through USB ports on the front and back of the unit.

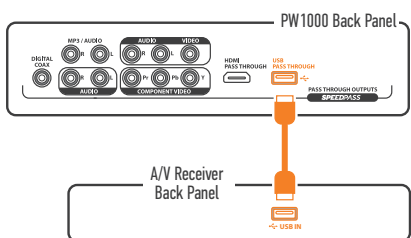**To set up the USB SpeedPass:** Connect a USB cable to the USB PASS THROUGH port on the back of the PW1000. Connect the other end of the USB cable to an available USB input port on the back of your A/V receiver.

Make sure you make a note of the inputs you're using for each connection.

PW1000 Back Panel

A/V Receiver
Back Panel

USB IN

WARNING: DO NOT connect this jack to a USB charger or other powered device. It is intended for data use only.

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Chapter 2: Setting Up the A/V Pass-Through Jacks

TV

Blu-ray   Satellite or cable
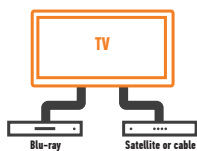
TV Only (or TV + Sound System)

These connection instructions are for home theaters where all signals go through the TV (or if the audio is run from the TV to a sound system. That means that you will be connecting the PW1000 back panel SpeedPass outputs to the TV. This section explains what to connect to each PW1000 back panel output.

IMPORTANT: Remember that the more jacks you connect on the PW1000, the more jacks you'll have available on the front of the PW1000 for connecting portable devices.

BEFORE YOU START: Decide which inputs to use and write them down.

Inputs can be tricky to remember—did you use HDMI2 or HDMI3? If you plan out your connections beforehand and write them down, life will be much simpler later when you're ready to watch that new vacation video from your camcorder on the TV.

HDMI
PASS THROUGH

Pr   Pb   Y
COMPONENT VIDEO

R   L   DIGITAL
AUDIO   or   COAX

AUDIO   VIDEO
R   L

MP3 / AUDIO
R   L

USB
PASS THROUGH

22

HDMI (TV Only)

PW1000 Back Panel

The PW1000 offers one pass-through HDMI SpeedPass connection from the front to the back HDMI jacks.

To use the HDMI SpeedPass: Connect an available HDMI input on your TV to the HDMI PASS THROUGH output on the back of the PW1000, as shown here.

> **IMPORTANT:** *Make sure you make a note of the inputs you're using for each connection.*

TV Back Panel

Component Video and Stereo Audio/Digital Coax Audio (TV Only)

The PW1000 offers one set of pass-through Component Video jacks on the front and back of the unit. The Component Video jacks carry video only, so you will need to connect a set of audio jacks in addition to the Component Video jacks on the back of the PW1000 to hear the audio from this source on your A/V receiver.

Chapter 2: Setting Up the A/V Pass-Through Jacks

TV Only

PW1000 Back Panel

TV Back Panel
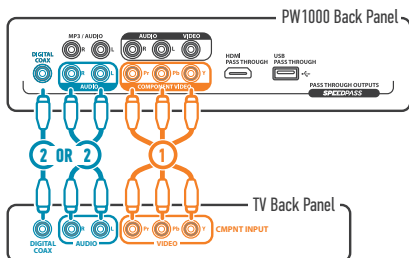
IMPORTANT: *Make sure you make a note of the inputs you're using for each connection.*

There are two choices for connecting the audio to accompany the component video jacks:

*   Stereo audio (left and right) cables carry 2-channel stereo audio
*   Digital coaxial cables carry digital audio, including 5.1 Surround Sound (when available)

To set up the Component Video and Audio SpeedPass:

1. Make the video connection.

Connect one set of cable ends from a component video cable to the COMPONENT VIDEO output jacks on the back of the PW1000.

Connect the other set of cable ends to an available set of Component Video jacks on the back of your TV. Make sure you match the colors of the cables to the colors of the jacks (green to Y, blue to Pb, red to Pr).

2. Make the audio connection.

Choose one of the audio options, stereo audio or digital coax. Then connect one end of the cable(s) to the corresponding jack on the back of the PW1000, and connect the other end of the cable(s) to the corresponding input jack on the back of your TV.

Composite Video and Stereo Audio (TV Only)

The PW1000 offers one set of pass-through Composite Video and Stereo Audio jacks on the front and back of the unit.

To set up the Component Video and Audio SpeedPass:

1. **Make the video connection.**

Connect one end of a composite video cable to the VIDEO jack on the back of the PW1000. Connect the other end to an available Video input jack on the back of your TV.

2. **Make the audio connection.**

Connect one set of plugs from a stereo audio cable to the STEREO AUDIO jacks next to the VIDEO jack on the back of the PW1000, and connect the other set of plugs to the audio input jacks next to the video input you used on the back of your TV.

IMPORTANT: *Make sure you make a note of the inputs you're using for each connection.*
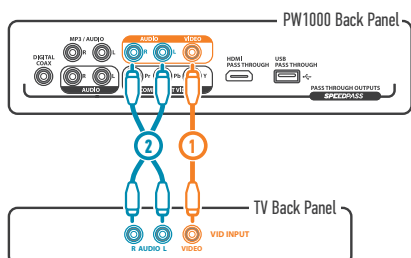
Chapter 2: Setting Up the A/V Pass-Through Jacks
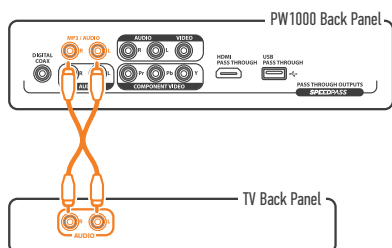
TV Only

MP3 Audio (TV Only)

The PW1000 offers a set of MP3 audio pass-through jacks on the front and back of the unit. The jack on the front is a single 3.5mm stereo audio jack, commonly used on portable audio devices. The jacks on the back are a stereo pair (left and right).

To set up the MP3 Audio SpeedPass: Connect one set of plugs from a stereo audio cable to the MP3/AUDIO jacks on the back of the PW1000, and connect the other set of plugs to an available set of audio input jacks on the back of your TV.

IMPORTANT: *Make sure you make a note of the inputs you're using for each connection.*

USB (TV Only)

The PW1000 offers a set of pass-through USB ports on the front and back of the unit.

To set up the USB SpeedPass: Connect a USB cable to the USB PASS THROUGH port on the back of the PW1000. Connect the other end of the USB cable to an available USB input port on the back of your TV.

IMPORTANT: *Make sure you make a note of the inputs you're using for each connection.*

WARNING: DO NOT connect this jack to a USB charger or other powered device. It is intended for data use only.
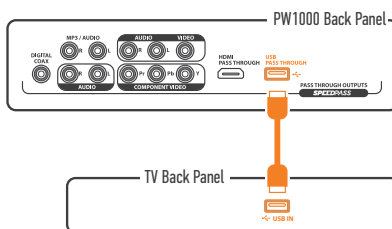
Chapter 3:   Setting Up the Ethernet Switch

Nothing beats a wired connection for speed and reliability. And the PW1000 provides the connections for your whole home theater (and more), offering network connectivity for up to five connected Internet devices. This chapter tells you how to set up the PW1000 as the switch for your home theater, with the following topics:

» **Fast Ethernet for Home Theater**

» **Setting Up**

Fast Ethernet for Home Theater

You may have already found out the hard way that wireless networks are great for surfing the web and checking e-mail, but they are not reliable or robust enough to support the kind of rich audio and video streaming that movies and other on-demand media require. That's why the PW1000 uses Gigabit Ethernet Technology, with increased speed and reliable connections that make HD video and digital audio streaming seamless. And the PW1000 Ethernet switch's plug-and-play setup means you'll be up and running right away—no software or additional hardware to install, no adjustments to make. Of course, you *will* need an Internet service provider and modem to take advantage of any Internet content.

Setting Up

Before you get started, make sure you have the necessary network cables for connecting the devices to the switch. You may already have a network cable going from your modem to a router or other network device. In addition, you will need network cables for each additional port you intend to use on the PW1000.

PW1000 Back Panel

IN   PORT **1** PORT **2** PORT **3**

ETHERNET SWITCH

2

3

3

3

NETWORK
OUT

**Modem
or Router**

Connected Devices

POWER   IN   PORT 1 PORT 2 PORT 3 PORT 4
BACK PANEL

PORT **4**

ETHERNET SWITCH
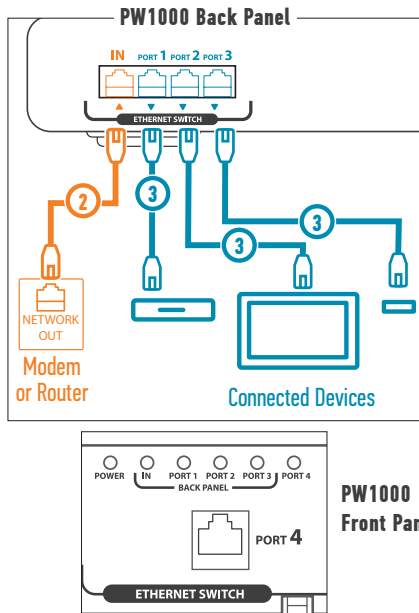
**PW1000
Front Panel**

To connect the PW1000 Ethernet switch to your home theater:

1. Make sure the PW1000 is unplugged.

2. Connect a network cable from the output of your modem or router to the IN port in the ETHERNET switch section on the PW1000 back panel.

3. Connect network cables from the Ethernet ports on your three devices to the PORT 1, PORT 2, and PORT 3 jacks on the back of the PW1000.

   IMPORTANT: *Use the Ethernet ports on the back of the PW1000 for network components that are more or less permanent fixtures in your home entertainment rack, like a connected TV, your Blu-ray player, or a Wi-Fi router. The Ethernet port on the front panel is best for network components that are just visiting or that you set in front of your home theater, like a laptop or a gaming system. For more information on the front Ethernet port, see page 40.*

4. Plug in the PW1000 and turn it on.

   The POWER light in the ETHERNET section on the front panel of the PW1000 turns on and stays on.

   The PORT indicators on the PW1000 front panel turn solid blue for each PORT where there is a device connected. These indicators blink when data is being transmitted to or from that device.

Chapter 4: Setting Up Your Home Theater Power
and Signal Input

The PW1000 Home Theater Power Station protects the components connected to its 10 AC outlets, 2 USB charging outlets, 2 sets of coaxial cable jacks, and Ethernet switch from harmful electrical surges and spikes. The PW1000 also uses AR PureCurrent™ power conditioning technology to make sure the power that gets to your components is as clean as possible. It removes impurities and interference, giving your home theater pure, reliable power for peak performance: the best picture and sound your electronics can deliver. This chapter shows you how to set up the PW1000 power outlets with your home theater.

PW1000 Back Panel Power Outlets

The 10 AC outlets the PW1000 are split into two types: 4 Always-On outlets for components you want to keep powered all the time, and 6 Switched outlets you want to turn on and off routinely (like every night, for example). In addition, the front panel offers 2 USB charging outlets that are always on.

How you set up the PW1000 with your home theater depends on which components you want to keep powered all the time. This chapter shows you how to get the most out of your home theater using the PW1000 power conditioner and surge protector.

Step 1: Plug the PW1000 Into a Grounded Outlet

IMPORTANT: The PW1000 must be plugged directly into a grounded (3-prong) outlet. Never use the PW1000 with a 2-prong adapter.

Back and Front Panel AC / USB Outlets: This chapter discusses how to set up the back panel power outlets on the PW1000—these are the outlets for components that are more or less permanent in your home theater, like your TV, Blu-ray player, satellite receiver, cable box, and A/V receiver. For information on the front panel AC and USB outlets, see the next chapter on using the front panel of the PW1000.

Chapter 4: Setting Up Your Home Theater Power and Signal Input

Step 2: Plug In The Always-On Outlets

ALWAYS ON outlets always have power when the PW1000 is plugged into a working power source. These outlets are a good choice for components that need to be on even when you're not enjoying your home theater, such as satellite receivers, which have updates during the night, or your modem, which needs to be on for you to use your home network. When you turn the switched outlets off after you've finished watching TV or listening to music, these components will still be operational.
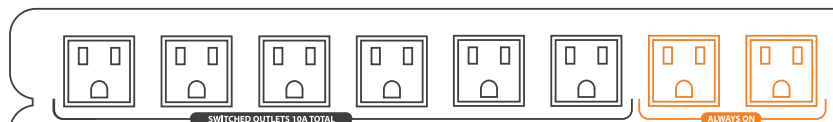
Step 3: Plug In The Switched Outlets

SWITCHED OUTLETS are controlled by the BACK PANEL SWITCHED OUTLETS switch on the front panel, designed for use with components you routinely want to turn off completely (like every night, for instance). The components plugged into these outlets are always protected from surges, regardless of whether they are switched on or off.

If you don't use a component during the night, and the component doesn't need to update during off-hours, then it's probably a good candidate for the SWITCHED OUTLETS. These outlets turn the PW1000 into an on/off switch for your home theater. When you're not watching or listening to something, the switch on the front panel of the PW1000 will let you stop power to these components, conserving energy and saving you money in electric bills.
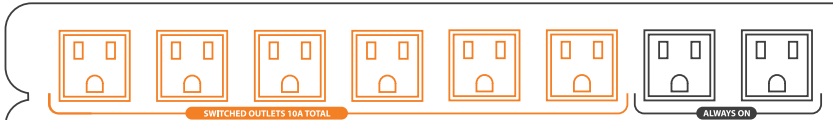
Chapter 4: Setting Up Your Home Theater Power and Signal Input

Step 4: Plug In The Back Panel Signal Inputs

Satellite or cable signal

SAT / CABLE 1
SAT / CABLE 2
IN
IN
OUT
OUT

Satellite receiver
or cable box

The PW1000 also protects and conditions the signals the come into your house from your satellite or cable service provider. The PW1000 has two pairs of coaxial inputs and outputs that protect your home theater from surges and dirty power on these lines.

To use the PW1000 coaxial signal inputs with your home theater:

1. Find the coaxial cable that brings your satellite or cable signal into your house. Connect it to the SAT/CABLE 1 jack labeled IN on the back of the PW1000.

2. Connect an additional coaxial cable (not included) to the SAT/CABLE jack labeled OUT on the back of the PW1000. Connect the other end of this coaxial cable to the signal input jack on your satellite receiver or cable box.

The PW1000 also has a second set of coaxial signal inputs and outputs for a second signal. To use this second set, follow the steps above or the SAT/CABLE 2 jacks.
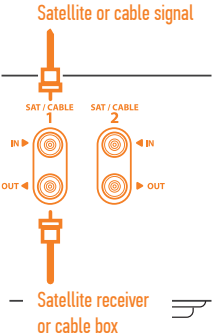
Chapter 5: Using the PW1000 Front Panel

Once you've connected the PW1000 back panel A/V and Ethernet outlets, the front panel of the PW1000 becomes a gateway to your home theater for your portable devices. Now you can plug virtually any portable device right into your home theater from the PW1000 front panel. The Ethernet port on the front of the PW1000 can give you instant high-speed access to your home network, great for gaming or a laptop computer. And the front panel power and USB charging outlets make it easy to charge your portable devices or power larger devices that are just visiting your home theater.

» **Front Panel A/V Inputs**

» **Front Panel Power and Charging Outlets**

» **Front Panel Ethernet Port and Indicators**

» **Using the Switched Outlets**

Front Panel A/V Inputs

The front of the PW1000 offers several sets of SpeedPass pass-through inputs. These jacks work by passing the signal from the front jack through to corresponding back panel audio/video jacks. The signal goes directly to the home theater component that's connected to those jacks. The jacks on the front of the PW1000 are organized into groups for different kinds of components.

To use the front panel inputs:

1. For the front panel input you want to use on the PW1000, make sure...

   (a) You have something connected to the corresponding back panel output on the PW1000 (to use HDMI PASS THROUGH, for example, make sure something's connected to HDMI PASS THROUGH on the PW1000 back panel)

   (b) You've selected the input on your A/V receiver or TV that's connected to that jack on the PW1000 back panel

2. Connect a cable between your portable device and the input on the PW1000 front panel.

3. Start playback on your portable device.

What Works With These Inputs?

This section describes a few of the portable devices you might use for each group of jacks.

USB PASS THROUGH jack sends data from the USB connection on your portable device through to the home theater component connected to the USB jack on the back of the PW1000. This jack is best for portable devices that can send data via their USB connection, like some portable audio and video players. Make sure the back panel USB jack is connected to a component that can accept data from portable devices.

HDMI PASS THROUGH jack sends video and audio from the HDMI or mini-HDMI jack on your portable device through to the home theater component connected to the HDMI jack on the back of the PW1000. This jack is great for camcorders and other portable video devices with an HDMI or mini-HDMI output.

Make sure your A/V receiver or TV is on the right input!

Once you plug your portable device into the PW1000, the video and audio signals are going to your A/V receiver or TV. But unless you have your A/V receiver or TV on the right input to view or listen to these signals, you won't hear or see anything. If you're having problems with a connection, use the remote that came with your A/V receiver or TV to switch to the correct input. If you're not sure which input is the correct one, consult the inputs list you filled out in Chapter 2.

In order for a front A/V jack to work...you must have your A/V receiver or TV connected to the corresponding jack on the back of the PW1000. For example, if there's nothing connected to the COMPONENT VIDEO jacks on the back of the PW1000, nothing will happen when you connect a portable device to the COMPONENT VIDEO jacks on the front of the PW1000.

Chapter 5: Using the PW1000

VIDEO / AUDIO group of jacks is for portable devices that only offer this kind of video connection, such as some older portable video players. This group has both video and audio jacks.

The **VIDEO** jack sends composite video from the jack on your portable device to the home theater component connected to the VIDEO jack in the composite group on the PW1000 back panel.

The **L/R** audio jacks send stereo audio from the audio jacks on your portable device to the home theater component connected to the L/R audio jacks in the composite group on the back of the PW1000.

COMPONENT VIDEO jacks send component video from the jack on your portable device to the home theater component connected to the COMPONENT VIDEO jacks on the PW1000 back panel. These jacks are for portable devices that don't offer HDMI output, like some portable device adapter systems. **IMPORTANT:** These jacks carry video only. To hear audio from this device, you must connect one of the following audio jacks:

L/R AUDIO jacks send stereo audio from the audio jacks on your portable device to the home theater component connected to the L/R audio jacks next to the COMPONENT video group on the back of the PW1000.

DIGITAL COAX jack sends digital audio, including Surround Sound if available, to the home theater component connected to the DIGITAL COAX jack on the back of the PW1000.

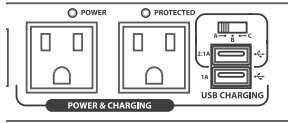**MP3/AUDIO jack** sends stereo audio from the audio jack on your portable device to the home theater component connected to the L/R MP3/AUDIO jacks on the back of the PW1000. This jack is designed to plug into the headphone jack on your MP3 player or other portable audio device.
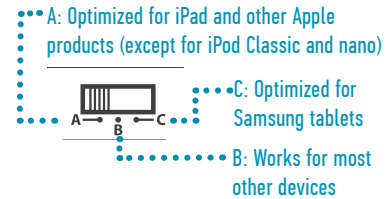
Front Panel Power and Charging Outlets

The front of the PW1000 offers 2 always-on AC outlets and 2 USB charging ports. These outlets and ports work whenever the PW1000 is operational—that is, whenever the PW1000 is plugged into a working outlet and the surge protection circuitry has not been triggered.

USB Charging Outlets

The USB CHARGING outlets support a wide range of USB-powered portable devices. The top outlet is optimized for devices that require extra current, such as tablets. This outlet can output 2.1 Amps of power. Both outlets support regular USB-powered devices, such as most smartphones.

2.1 USB outlet and switch

Before using the 2.1 Amp USB outlet for your tablet or other large portable device, make sure you have the switch above this outlet set to the right position for your device—you must have it set BEFORE you plug in your device. As a rule of thumb, leave the 2.1 switch in B position unless you have an Apple (A) or Samsung (C) product.

A: Optimized for iPad and other Apple products (except for iPod Classic and nano)

C: Optimized for Samsung tablets

B: Works for most other devices

Front Panel Power Indicators

The POWER and PROTECTED indicators show you the status of your PW1000. Both of these lights should be on at all times when you have the PW1000 plugged into a working outlet. If one or the other is not lit, see the Troubleshooting section of this manual for possible solutions.

Front Panel Ethernet Port and Indicators

The front of the PW1000 offers a single Ethernet port for Internet-enabled portable devices or gaming devices you keep in front of you home theater. To use this port, you must have an Internet service provider and modem or router connected to the IN port on the back of the PW1000.
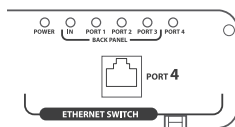
To use the PORT 4 on the front of the PW1000:

1. Make sure a modem or router is connected to the back panel of the PW1000.

2. Connect an Ethernet cable (not included) to your Internet-enabled portable device. Connect the other end to the PORT 4 jack on the PW1000 front panel.

   The PORT 4 indicator light should light up to show that there is a connection. This light blinks when there is network activity to and from your portable device.

Switch Indicator Lights

The POWER light in the ETHERNET section shows you that the PW1000 switch is active. The IN indicator shows you the status of modem or router that is supplying Internet connectivity to the PW1000 switch. Both of these lights should be on at all times when you have the PW1000 plugged into a working outlet and your modem or router is on. If one or the other is not lit, see the Troubleshooting section of this manual for possible solutions.

The PORT lights in the ETHERNET section show which ports are active: they are lit when a working device is connected to a port and blink when there is network activity is taking place between the switch and that device. If these port lights aren't lit and/or blinking when you think they should be, check the connection at the PW1000 port and on the device. If there's still a problem, see the Troubleshooting section of this manual.
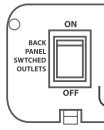
Using the Switched Outlets

The PW1000 offers two kinds of AC outlets on its back panel: always-on outlets that are on whenever the PW1000 is plugged in, and switched outlets that you can turn on and off from a switch on the PW1000 front panel. The BACK PANEL SWITCHED OUTLETS switch is a convenient on/off for the home theater components you don't want to leave on all the time. Right before you're going to bed, for example, you can flip the PW1000 switch and power down everything connected to the switched outlets—no need to turn each individual component off. Then, when you're ready to start using your home theater again, flip the PW1000 switch back on and watch everything come back to life again.

What about the Ethernet switch and SpeedPass pass-through jacks?

The Ethernet switch and SpeedPass outlets are unaffected by the BACK PANEL SWITCHED OUTLETS switch—the Ethernet switch operates whenever the PW1000 is plugged into a working outlet, and the SpeedPass A/V pass-through jacks do not rely on power to function. They always pass through the signal.

Chapter 6:   Additional Information

This chapter provides reference information about the PW1000, with the following sections:

» **Troubleshooting**

» **Specifications**

» **Warranty**

» **Connected Equipment Guarantee**

» **Safety and Regulatory Information**

Troubleshooting

Most common problems with the PW1000 can be solved by trying one of the following solutions. Try the solutions in the order they are listed here. If you have any further questions, please call our help line toll-free at 1-800-732-6866 or visit www.Acoustic-Research.com.

I can't see/hear the signal from my portable device.

- If you're using a set of jacks on the front of the PW1000 (like the HDMI PASS THROUGH, for example), make sure the corresponding jacks on the back of the PW1000 are connected to an input on your TV or A/V receiver via the correct cable. The PW1000 does not pass signals through to different kinds of jacks—the signal from the front HDMI PASS THROUGH jack goes to the back HDMI PASS THROUGH *only*, for example. It does not go to any other jack.

- Make sure you've selected the right input on your TV or A/V receiver to see/hear the signal from your portable device. If you've made a note of the inputs you're using (in Chapter 2), see which input you need to select for the jacks you're using on the PW1000 front panel. Then use the remote that came with your TV or A/V receiver to check which input you're using currently and change inputs if necessary.

- If you're using the VIDEO or COMPONENT VIDEO jacks, make sure you're also using the audio jacks beside these video jacks on the PW1000 front and back panels. The video jacks do not carry audio. Also, make sure that the audio jacks you're using on the back of your TV or A/V receiver are grouped with the video jack you're using. For example, if you're using the VID1 group on your component, make sure the audio jacks you're using are in the same group.

- Some USB devices may not pass audio or video signals via their USB interface. Likewise, some home theater components have restrictions on the kinds of signals they accept from USB devices. See the user guides that came with these components for more information.

Chapter 6: Additional Information

I'm not getting power to my connected components.

- Make sure the PW1000 is plugged into a working outlet.
- Make sure the switch on the PW1000 front panel is on. The POWER indicator on the PW1000 front panel should be lit.
- The circuit breaker on the PW1000 may have been triggered. Press the RESET button on the back of the PW1000 to reset its circuitry. Then unplug the PW1000 and plug it back in.
- If the front panel outlets on the PW1000 have power but the back panel outlets do not, make sure the switch on the front of the PW1000 front panel is on.
- If this problem is affecting just one of your components, unplug that component from the PW1000 and plug it directly into the wall. If the component still does not work, consult the manual for that product for further troubleshooting.
- If you've already reset the PW1000, plugged it in, and turned it on, and the POWER indicator and ETHERNET SWITCH POWER indicator are not lit, the PW1000 internal fuse might be blown. Call our help line toll-free at 1-800-732-6866 for more information.

The GROUNDED indicator on the front of the PW1000 isn't lit.

- Make sure the PW1000 is plugged directly into a grounded (3-prong) outlet. The PW1000 must not be used with 2-prong adapters.
- Try the PW1000 with another 3-prong outlet in your house. If the GROUNDED indicator still fails to come on, you might have a larger wiring issue in your house. Contact a licensed electrician to make sure all outlets in your house are properly grounded.

The PROTECTED indicator on the front of the PW1000 isn't lit.

- Make sure the PW1000 is plugged directly into a grounded (3-prong) outlet. The PW1000 must not be used with 2-prong adapters.

- Try the PW1000 with another 3-prong outlet in your house. If the GROUNDED indicator comes on but the PROTECTED indicator *does not*, the surge protection circuit may have been compromised by a large surge. Call our help line toll-free at 1-800-732-6866 for more information.
  IMPORTANT: *The PW1000 might still provide power to the AC and USB outlets/ports and the Ethernet switch even if the PROTECTED indicator is not lit. Please note that surge protection is not active unless the PROTECTED indicator is on.*

The USB charging ports on the front of the PW1000 aren't charging my device.

- Make sure the PW1000 is plugged into a working outlet.

- If you're trying to charge a tablet (or other large mobile device), use the top charging port (labeled 2.1). Make sure you set the switch above this port for your device: as a rule of thumb, leave the 2.1 switch in B position unless you have an Apple (A) or Samsung (C) product. You must set this switch BEFORE you start charging.

The lights in the Ethernet switch section aren't coming on. / I can't get Internet access to my connected component.

- Make sure the PW1000 is plugged into a working outlet.
- Make sure your modem or other Internet access device is plugged into the IN port in the ETHERNET SWITCH section of the PW1000 back panel.
- Make sure your modem or other Internet access device is plugged in, powered on, and working. Make sure the network connection to your modem or other Internet access device is working.
- Make sure your connected components are plugged into the ports in the ETHERNET SWITCH section of the PW1000 front and back panels.
- Make sure your connected components are plugged in, powered on, and working.

Chapter 6: Additional Information

Specifications

Power

Outlets	Total AC: 10
	Front: 2 unswitched
	Back: 2 unswitched, 6 switched
	Total USB: 2 unswitched (front)
	Top: 2.1 Amps
	Bottom: 1 Amp Current Controlled
Electrical Rating	120V, 12 Amps
Cord Length	240cm

Surge Protection	Energy Rating: 6840J
	Response Time: <1 nanosecond
	Max.Spike Current: 408,000 Amps
	Max. Spike Voltage: 6kV
	Coax Protection (2 pairs)
	Breakdown Volts: <75V
	Insertion Loss @ 10MHz: <0.1dB
	Connector Finish: Gold-Plated
EMI/RFI Noise Filter	Frequency: 150kHz–100MHz
	Attenuation: minimum 75dB

Pass-Through Connections

HDMI	HDMI 1.4 (Ethernet and 3D), 1 Front to 1 Rear
Component Video	Pr/Pb/Y, 3 Front to 3 Rear
Digital Coax Audio	1 Front to 1 Rear
Composite Video / Stereo Audio	Video, 1 Front to 1 Rear L/R Stereo Audio, 2 Front to 2 Rear
Stereo Audio	Stereo Audio, 1 3.5mm Front to 2 RCA Rear
USB	1 Front to 1 Rear

Ethernet Switch

Standards	IEEE802.3, IEEE802.3u, IEEE802.3ab	Frame Filter Rate	10Base-T: 14880pps/Port
Topology	Star		100Base-Tx: 148800pps/Port
Protocol	CSMA/CD		1000Base-T: 1488000pps/Port
Data Transfer Rate	Ethernet: 10Mbps (Half Duplex), 20Mbps (Full Duplex)	Frame Forward Rate	10Base-T: 14880pps/Port
	Fast Ethernet: 100Mbps (Half Duplex), 200Mbps (Full Duplex)		100Base-Tx: 148800pps/Port
	Gigabit Ethernet: 2000Mbps (Full Duplex)		1000Base-T: 1488000pps/Port
Network Media(Cable)	10Base-T: UTP category 3, 4, 5 cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m)	Operating Temperature	0 ~40℃ (32 ~104℉)
	100Base-TX: UTP category 5, 5e cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m)	Storage Temperature	-40 ~70℃ (-40 ~158℉)
		Operating Humidity	10%~90% non-condensing
	1000Base-T: UTP category 5 cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m)	Storage Humidity	5%~90% non-condensing
Number of Ports	5 10/100/1000Mbps Auto-Negotiation RJ45 ports		
LED indicators	Power, Link/Act		
Transfer Method	Store-and-Forward		
MAC Address Learning	Automatically learning, automatically aging		

Limited Lifetime Warranty

Audiovox Accessories Corporation (the "Company") warrants to you the original retail purchaser of this product that should it, under normal use and conditions, be proven defective in material or workmanship during its lifetime while you own it, such defect(s) will be repaired or replaced (at the Company's option) without charge for parts and repair labor. To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), specification of defect(s), transportation prepaid, to the Company at the address shown below. Do not return this product to the Retailer.

This Warranty does not cover product purchased, serviced or used outside the United States or Canada. This Warranty is not transferable and does not extend to costs incurred for installation, removal or reinstallation of the product. This Warranty does not apply if in the Company's opinion, the product has been damaged through alteration, improper installation, mishandling, misuse, neglect, or accident.

THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED TO DURATION OF THIS WARRANTY. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES WHATSOEVER. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

Some states/provinces do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state/province to state/province.

U.S.A.: Audiovox Return Center, 150 Marcus Blvd., Hauppauge, New York 11788

CANADA: Audiovox Return Center, c/o Genco, 6685 Kennedy Road, Unit 3, Door 16, Mississauga, Ontario L5T 3A5

Connected Equipment Guarantee

Your Connected Equipment Guarantee covers the original purchaser for connected equipment damaged by a transient voltage surge/spike ("Occurrence") while properly connected through this power conditioner for a period of five (5) years from the date of purchase (see your package for amounts). Audiovox Accessories Corporation ("Audiovox") will repair the damaged equipment or will reimburse an amount equal to the fair market value of the equipment or the original purchase price of the equipment, whichever is less, up to the maximum amount set forth for the Connected Equipment Guarantee for this surge protector.

The fair market value of the equipment shall be the current value of the equipment specified in the most recent edition of the Orion Blue Book by Orion Research Corporation, Roger Rohrs Publisher. The cost, if any, of shipping equipment to and from such repair facility shall be borne solely by the original purchaser. Audiovox reserves the right to inspect the damaged surge protector and the damaged equipment, and the site where damaged occurred. All cost of shipping the damaged surge protector and the damaged equipment shall be borne solely by the original purchaser.

The Connected Equipment Guarantee is Null and Void If:

- The surge protector and/or the damaged equipment in use during the Occurrence is not provided to Audiovox for inspection upon Audiovox's request.
- Audiovox determines that the surge protector has been improperly installed, altered in any way, tampered with, and that the damage did not result from the Occurrence or that no Occurrence in fact took place.
- The damaged equipment is covered by a manufacturer's warranty, service contract, or insurance. The coverage under the Connected Equipment Guarantee is secondary to any applicable warranties, service contracts, and all other insurance.
- Audiovox determines the connected equipment was not used under normal operating conditions or in accordance with labels and instructions. The surge protector must be connected directly to the power source and must not be "daisy-chained" together in serial fashion with other powerstrips, UPS, or other surge protectors or power cords.
- The Occurrence is due to low voltage disturbances (i.e. brown out or sags).
- Audiovox is not permitted to promptly inspect the site where damage occurred.

Chapter 6: Additional Information

Filing a Claim

To receive service under this Guarantee, you must be the original purchaser/user of the product in question. All damage claims must be made with 15 days from the date of the Occurrence and must be accompanied by a receipt for the damaged equipment or the Connected Equipment Guarantee is void.

To File a Claim:

1. Contact Audiovox at 1-800-645-4994 (United States) or 1-800-323-4815 (Canada) within 15 days of the Occurrence. Provide the following information:
   a. Part number of surge protector.
   b. The equipment that was connected to the surge protector at the time of the Occurrence.
   c. The equipment that was damaged during the Occurrence and the extent of the damage.
   d. The date of the Occurrence.
   e. Where you purchased the surge protector.
   f. When you purchased the surge protector.
   g. Copy of the original receipts (for the product and connected equipment).
2. Your Audiovox customer service representative will instruct you on how to forward your equipment and surge protector which were in use during the Occurrence, your receipts, and how to proceed with your claim.

What the Guarantee Does NOT Cover

- Loss of software, media, stored information, or data of any kind.
- Loss of business profits, business interruption, or downtime.
- Damage associated with sustained over-voltages, vandalism, theft, normal wear and tear, obsolescence, abuse, misuse, non-authorized alteration or catastrophic events.
- Incidental, indirect, special, or consequential damages arising out of the use of this surge protector, including without limitation all freight, mileage, travel time, and insurance charges associated with coverage claims.
- Product purchased, serviced, or used outside the United States or Canada.

If you purchased your product outside the United States or Canada, the Connected Equipment Guarantee does not apply.

Safety and Regulatory Information

CAUTION!

DO NOT connect to an ungrounded outlet. DO NOT use with 2-wire extension cords or adapters.

This power conditioner is designed for indoor use only. Install the power conditioner away from heat emitting appliances such as radiators or heat registers. Do not install where excessive moisture is present. Do not plug extension cords into the power conditioner. Never install electrical or telephone wiring during a lightning storm. DO NOT USE FOR MEDICAL OR OTHER LIFE SUPPORT EQUIPMENT OR OTHER HIGH RISK ACTIVITIES. DO NOT USE IN DAMP AREAS OR NEAR WATER RELATED APPLICATIONS SUCH AS AQUARIUMS, HOT TUBS, ETC.

FCC Statement

This product has been tested and complies with the specifications 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. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used according to 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 harmful interference to radio or television reception, which is found by turning the equipment off and on, the user is 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 the equipment or devices

• Connect the equipment to an outlet other than the receiver's

• Consult a dealer or an experienced radio/TV technician for assistance

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.

2. This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Safety Notices

• Caution: To reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord.

• Do not use this product near water, for example, in a wet basement or near a swimming pool.

Industry Canada Statement

This Class B digital apparatus complies with Canadian ICES-003 .

Operation is subject to the following two conditions:

1 . This device may not cause interference and

2 . This device must accept any interference, including interference that may cause undesired operation of the device.

Avis d'Industrie Canada

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada .

Le fonctionnement est soumis aux conditions suivantes :

1 . Ce périphérique ne doit pas causer d'interférences;

2 . Ce périphérique doit accepter toutes les interférences reçues, y compris celles qui risquent d'entraîner un fonctionnement indésirable.

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Notes