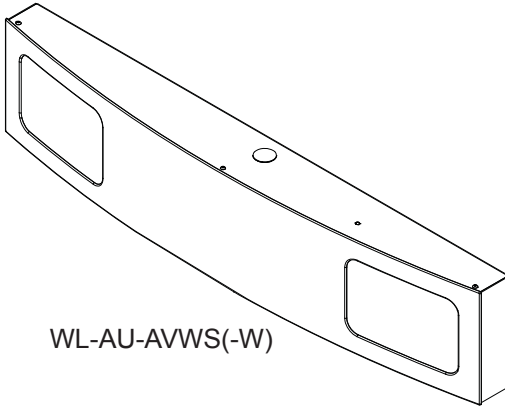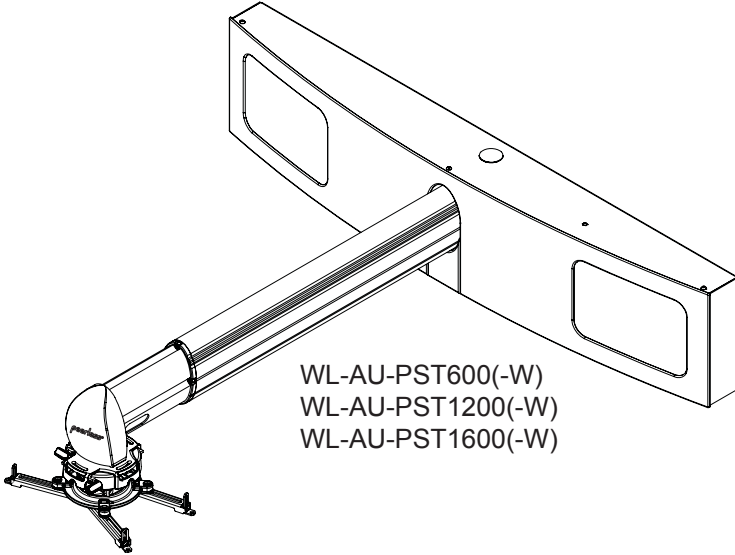# User Manual

peerSound™

Wireless AV Wall System
Wireless Short Throw Projector AV System

WL-AU-AVWS(-W)

WL-AU-PST600(-W)
WL-AU-PST1200(-W)
WL-AU-PST1600(-W)

Full HD 1080   HDMI®   3D READY   **peerless-AV**®

Contents

Safety Instructions

Read these instructions as well as referenced instruction for each respective electronic component. Keep these instructions as well as referenced instruction for each respective electronic component. Heed all warnings in this instruction as well as referenced instruction for each respective electronic component. Follow all instructions including referenced instruction for each respective electronic component.

1. Do not use this or an included component of this system near water.
2. Clean only with dry cloth.
3. Do not block any ventilation openings. Install in accordance with the user manual instructions for included electronic components.
4. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
5. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
6. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the system.
7. Unplug this system during lightning storms or when unused for long periods of time.
8. Refer all servicing to qualified service personnel. Servicing is required when the system 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 system, the system has been exposed to rain or moisture, does not operate normally, or has been dropped.
9. Never push objects of any kind into the system through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. The system shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the system. Do not put candles or other burning objects on top of this system.
10. If you install the system in a built-in installation, such as a bookcase or rack, ensure that there is adequate ventilation.
11. Leave 1" (2.5cm) of free space at the top and sides and 1" (2.5cm) at the rear. The rear edge of the shelf or board above the system shall be set 1" (2.5cm) away from the rear panel or wall, creating a flue-like gap for warm air to escape.

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

WARNING
To prevent injury, this system must be securely attached to the wall in accordance with the installation instructions.

WARNING
Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like. Do not use batteries of they are noticeably damaged.

CAUTION
To reduce the risk of electric shock, do not perform and servicing other than that contained in the operating instructions unless you are qualified to do so.

Electrical Warnings

A.   Avoid Abuse to the Power Supply

To reduce risk of electric shock, unplug the power supply from outlet before attempting any maintenance or cleaning. Turning off controls will not reduce this risk.

DO NOT disassemble the power supply.
Contact a qualified service professional if service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.

DO NOT expose the power supply to rain, snow, water, gas, oil, etc.

DO NOT operate the power supply if it has been dropped, or otherwise damaged in any way.

DO NOT block or cover the apparatus and impeded ventilation.

B.   Proper Use of The Power Supply and Wiring

It is recommended to always use the provided power supply. An extension cord should not be used unless absolutely necessary. Use of improper extension cord could result in a risk of fire and/or electric shock. If extension cord must be used, use ONLY a grounded, 3-wire type cord. NEVER use a 2-wire cord and an adaptor! The cord MUST be plugged into a grounded outlet. Make sure the grounded outlet is properly wired, in good electrical condition, and wire size is large enough for AC ampere rating of the power supply as specified below. AWG = American Wire Gauge.

To reduce risk of damage to plug and cord when disconnecting the power supply, ALWAYS pull on plug - NEVER on cord. Locate cord so that it will not be stepped on, tripped over, or other-wise subject to damage or stress.

DO NOT lay extension cord on battery or the power supply.

DO NOT operate the power supply with damaged cord or plug - replace them immediately.

Follow Manufacturers' Recommendations
Before using the system , read all instructions and caution markings on the system and read the user guide.

Introduction

You have purchased the most multifunctional, easy to use Wireless AV system. This multi-functional system enhances any presentation experience with wireless plug-and-play presentation without the need to have long signal cables across the floor/room/table that have the potential to be tripping hazards. In addition to a quick, easy and wireless connectivity of an AV source or a computer this system provides enhanced audio mixing allowing for enhanced voice over AV when paired with a wireless microphone (not included). Enhanced voice allows the speaker to be heard over the AV content all the way in the back of the room, reducing voice strain and engaging the audience.

NOTE: It is recommended that this system be installed and set up by a professional installer that can ensure that:

1. The correct projector arm length based on the projector requirements is selected (WL-AU-PST600, 1200, 1600 models only)
2. That proper 120 VAC power is supplied to the system
3. That the audio functions are set up per system specifications

NOTE: Improper installation can result in either a poor or non-operating system.

Basic Guidelines
This manual is intended to cover operation of the wireless AV Transmitter and Receiver, and the Amplifier for audio reproduction. A wireless microphone (not included) is supported by this system. It is the choice of the customer or the professional installer to utilize the systems full audio capabilities. This manual will provide general information on microphones, but specific details many vary based on microphone model selected and must be found in the selected microphone's manual. This product utilizes the HD Flow™ Pro Wireless Multimedia Kit (HDS200), and this manual will reference the user manual for specific functions.

Batteries
The only batteries utilized are in the remote control for the HD Flow™ Pro Wireless Multimedia Kit and the remote control for the amplifier. The amplifier remote will be used frequently, thus needing more frequent replacement.
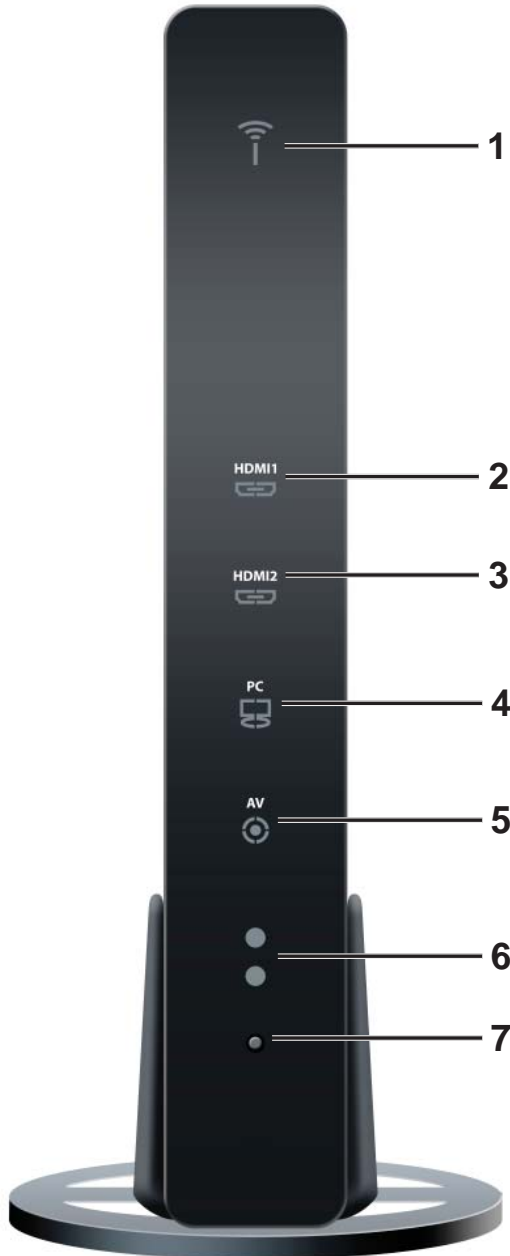
The main sign of needing replacement is reduced distance of operation.

The battery models are as follows:
HD Flow™ Pro Wireless Multimedia Kit Remote : CR2025
Amplifier Remote: CR2025
NOTE: Batteries are NOT rechargeable

1

HDMI1 **2**

HDMI2 **3**

PC **4**

AV **5**

6

7

Transmitter

Transmitter

1. Power/Link Indicator Light
- Blinking indicator light - System booting or establishing link between the Transmitter and the Receiver.
- Quick blinking indicator light - Software upgrading or wireless/LAN mode switching.
- Solid indicator light - Link between the Transmitter and Receiver has been established and is ready for signal transmission.

2. HDMI 1
- The **HDMI 1** indicator light will be illuminated when the HDMI 1 port is selected for video input.
- If there is no signal, and/or the cable is not connected, the indicator light will blink.

3. HDMI 2
- The **HDMI 2** indicator light will be illuminated when the HDMI2 port is selected for video input.
- If there is no signal, and/or the cable is not connected, the indicator light will blink.

4. PC
- The **PC** indicator light will be illuminated when the PC IN port is selected for video input.
- If there is no signal, and/or the cable is not connected, the indicator light will blink.
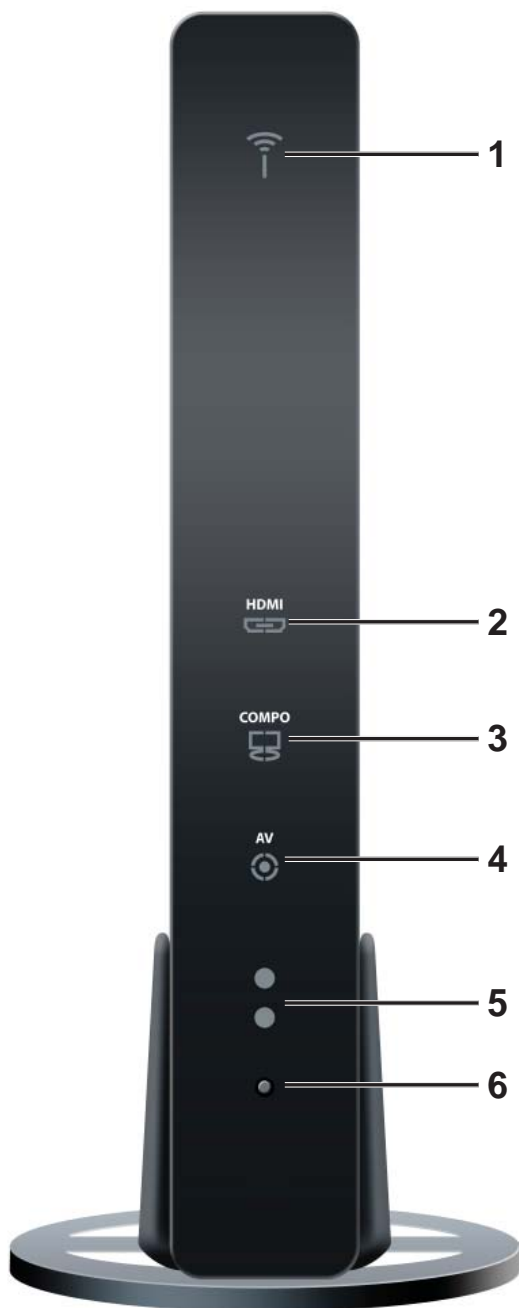
5. AV
- The **AV** indicator light will be illuminated when the AV IN port (Composite) is selected for the video input.
- If there is no signal, and/or the cable is not connected, the indicator light will blink.

6. IR Window
- IR receiving window enables remote control of components.

7. Power/Source Selection Button
- Press and hold for 3 seconds to turn on the unit.
- When powered on:
  - ° Press to select the video input source. Each press of the button will cycle through the available video input "HDMI1→ HDMI2→ PC→ AV →HDMI1" in sequence.
  - ° Press and hold for 8 seconds to turn the unit off.

1

HDMI **2**

COMPO **3**

AV **4**

5

6

Receiver

Receiver

1. **Power/Link**
- Blinking indicator light - System booting or establishing link between the Transmitter and the Receiver.
- Rapid blinking indicator light - Software upgrading or wireless/LAN mode switching.
- Solid indicator light - Link between the Transmitter and Receiver has been established and is ready for signal transmission.

2. HDMI
- The HDMI indicator light will be illuminated when the HDMI port is selected for video output.
- If there is no signal, and/or the cable is not connected, the indicator light will blink.

3. COMPO
- The COMPO (component) indicator light will be illuminated when component output is selected for video output.
- If there is no signal, and/or the cable is not connected, the indicator light will blink.

4. AV
- The AV indicator light will be illuminated when the AV port (composite) is selected for the video output.
- If there is no signal, and/or the cable is not connected, the indicator light will blink.

5. IR Window
- IR receiving window enables remote control of components.

6. Power/Source Selection Button
- Press and hold for 3 seconds to turn on the unit.
- When powered on:
  - ° Press to select the video input source. Each press of the button will cycle through the available video input "HDMI→ COMPO→ AV →HDMI" in sequence.
  - ° Press and hold for 8 seconds to turn the unit off.

Wireless Signal Transfer Setup

Before you begin, make sure you have the following items.

Transmitter

AC Adapter

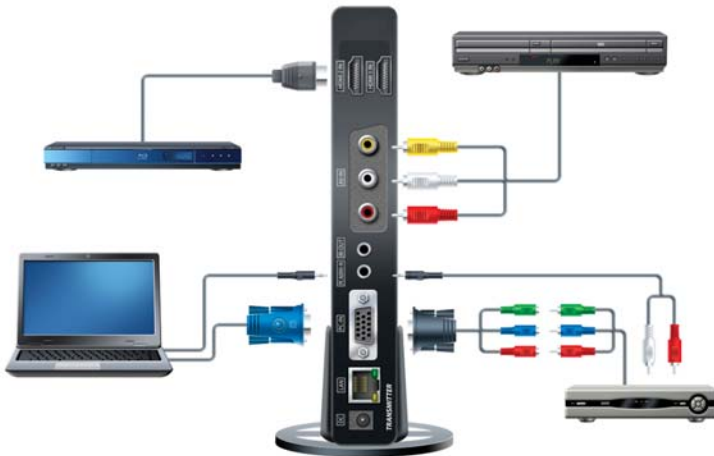Component Adapter

Stand

Remote Control

Battery

Quick Start Guide

Manual

Step 1

Connect the Transmitter to the source devices (Computer/PC, Blu-Ray™ Disc Player, Gaming Console, etc.)
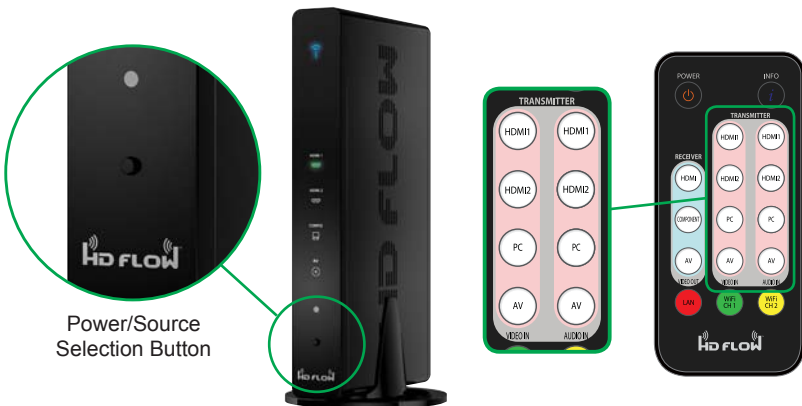
Step 2

Power-up the HD Flow Pro Transmitter.

A. Plug in the power adapter for the Transmitter to a nearby power outlet. The Transmitter will automatically turn on.

B. Ensure power is on to the System.

C. Turn on your source devices.

Step 3

While turning on the display device the HD Flow Pro Wireless Multimedia Transmitter and Receiver will be going through the startup process. This process may take up to two minutes to complete. The Power/Link indicator lights on the Transmitter and the Receiver will be flashing at first. Flashing indicates that the units are establishing a secure connection. Wait until the connection is successfully established, indicated by the Power/Link indicator light becoming solid.
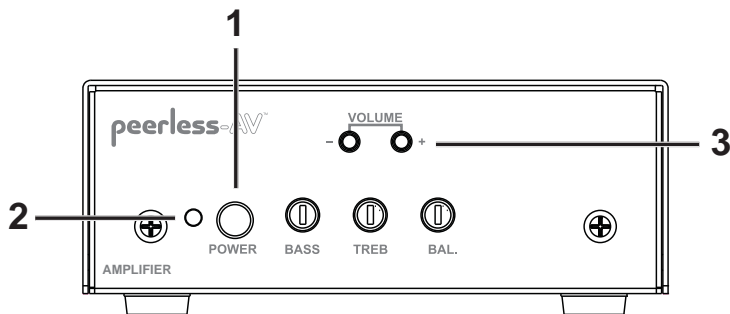

Power/Source Selection Button

A. Select the desired source or device input on the Transmitter using the Power/Source Selection Button on the front of the unit, or on the remote control.

Step 4

Play the source device content.

SIGNAL MIXING

Your system is set up to allow a microphone (not included) to be heard slightly over the AV content running. Contact your installer, or refer to the installation manual if further adjustment is needed.

1. **POWER ON/OFF**

   ON -To initially turn the amplifier on, depress the power button on the face. The LED will turn to green. The amplifier will respond to remote control commands.

   Remote Control OFF/ON –Turn the power off by using the remote control. This is a sleep mode. The main power button is still pressed in. Continued on/off cycles to be handled using the remote control only. If the power is again turn off using the face button in sleep mode, the amplifier would turn back on in sleep mode.

   OFF – Turning the amplifier off pressing the button on the face, the amplifier is completely off. It will not respond to the remote control. It will also go back on in the mode it was previously in (either sleep or on).

2. **LED POWER INDICATOR**

   OFF – When the amplifier is off, it will not respond to the remote control commands.

   Red - Sleep mode. The amplifier was turned off by the remote only, and will only turn on by the remote control. The main power button is still pressed in.

   Green – The amplifier is on and will provide sound with signal from either Aux or Mic, and responds to the remote control.

3. **VOLUME ADJUSTMENT**

   The volume adjustment controls both the Aux input and Mic input the same. The signal from both inputs ramps up or down the same amount. The volume adjustment is done by using the up or down buttons on the amplifier face, or using the up or down buttons on the remote control. The LED will flash green during the button presses.

Video (WL-AU-PST models only)

Transmitter and/or Receiver Indicator Lights are all Blinking:

- The HD Flow Pro units are establishing a connection. It can take up to two minutes for the HD Flow Pro units to establish a complete connection. If after two minutes have passed and the units have not established a connection, unplug the power cable, wait 30 seconds and reconnect the power supply to the units.

Transmitter or Receiver Power Indicator Light is OFF:

- Check and verify the power supply connection.

Transmitter Input Indicator Light Blinks:

- Make sure that your source device is turned ON and the cable is properly connected.
- Verify that the Transmitter is set to the appropriate input port.
- Check the resolution from your source device. This may need to be changed to a resolution supported by the HD Flow Pro Wireless Multimedia Kit. Reference the Resolution Chart in the HD Flow Pro Manual for compatibility. Reference your source devices' manual for instruction on changing the output resolution.

Receiver Power Indicator Light Blinks:

- Verify that the HD Flow Pro Transmitter and Receiver are within the recommended range of 131 feet. Physical obstructions such as walls, floors and ceilings between the Transmitter and Receiver may decrease the strength of the connection signal and reduce the overall transmission range.

If a connection has been established and the HD Flow logo can be seen on the display device, but content is not playing:

- Verify the Receiver is set to the output used for the projector. Press the appropriate receiver button on the HD Flow remote. (left side under "Receiver") Allow approximately 15 seconds for the setting to initialize.
- Make sure that the input/output cables are properly connected.
- Verify that the Transmitter is set to the appropriate input port.
- Check the media source resolution. The display device must be able to support the resolution of the media source that is being streamed. Utilizing the INFO button will allow you to see the resolution data that the display device supports. If the display device supports the highest resolution of 720p but the source device is outputting 1080p content, the content needs to be down-scaled to the maximum resolution of the display device, in this case 720p.

Receiver Output Indicator Light Blinks:

- Make sure that your display device, source device and the HD Flow Pro Wireless Multimedia Kit units are all turned on and the Receiver is properly connected to the output device.
- Verify that the Receiver is set to the appropriate output port.
- Check the resolution setting of your source device. This may need to be changed to a resolution supported by the HD Flow Pro Wireless Multimedia Kit . Reference the Resolution Chart in the HD Flow Pro Manual for compatibility. Reference your source devices' manual for instruction on changing the output resolution.

Audio

Sound does not come out of the speakers:

- Ensure the volume on the source (Computer/PC, Blu-Ray™ Disc Player, Gaming Console, etc.) is turned up at least half way or more.
- Ensure the amplifier indicator light is green, indicating it's ON. If it is red, use the Audio Remote to turn it ON. If the light is not on, check the amplifier face power button is pressed in, or press it in. If it still does not turn on, request help to remove the front cover, and ensure the system has power.
- Check amplifier volume level. Use the Amplifier Remote to turn up the volume. The amplifier green indictor light will blink while the volume button is pressed. Full volume occurs when the green light stops blinking, while pressing the UP button.

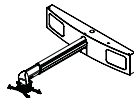**The microphone cannot be heard from the speakers:**

- Ensure the microphone batteries are fresh.
- Ensure the microphone is turned on.
- Ensure variable gain adjustments are not turned down.
- Ensure the installer adjusted the microphone gain control on the amplifier, accessed by removing the system front cover.
- Ensure the microphone is still linked to it's receiver, accessed by removing the system front cover.

NOTE: Some items above may require checking your microphone user manual.

If the above troubleshooting tips do not resolve the issues for a unicast, 1 to 1, or 1 to many setup, please reference the Factory Reset Section of the HD Flow Pro Manual. For a multicast system configuration, please contact Peerless-AV Customer Care at 800-856-2112 for further instruction.

Wireless Short Throw Projector AV System

Part Number	WL-AU-PST600(-W) WL-AU-PST1200(-W) WL-AU-PST1600(-W)	
Product Weight	WL-AU-PST600(-W) WL-AU-PST1200(-W) WL-AU-PST1600(-W)	43.00lb (19.50kg) 46.50lb (21.09kg) 48.00lb (21.77kg)
Dimensions (W x H x D)	WL-AU-PST600(-W)	47.21" x 11.06" x 19.44"-26.33" (1199 x 281 x 494-669mm)
	WL-AU-PST1200(-W)	47.21" x 11.06" x 32.43"-49.95" (1199 x 281 x 824-1269mm)
	WL-AU-PST1600(-W)	47.21" x 11.06" x 48.18"-65.71" (1199 x 281 x 1224-1669mm)
Max Projector Load	25lb (11.3kg)	
Universal Projector Mounting Pattern	Up to 17.63" (448mm)	
Tilt	±20°	
Roll	±10°	
Swivel	360°	
Color	WL-AU-PST600/-PST1200/-PST1600 WL-AU-PST600-W/-PST1200-W/-PST1600-W	Black White
Mounting Surfaces	Wood stud, metal stud, concrete and other structures (Other structures require accessory)	

Speaker Specifications

Speaker	5-1/4" 2-way speakers with 35W maximum power handling 1" post tweeters 60Hz to 20kHz frequency response 86 dB sensitivity

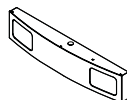### Amplifier Specifications

Power rating	25W x 2 RMS class-D amplifier
Inputs	3.5mm Auxiliary jack, 3.5mm microphone jack
Outputs	Bridgeable stereo speaker jacks
Volume Control	Wireless IR remote control with 3-foot IR extender Onboard volume control
Audio controls	Base, treble, balance adjustments Input gain adjustment Stereo / bridge mono switch
Power source	Voltage: 120V AC, 60Hz; Consumption: 24V DC, 2A

HD Flow ™ Pro Wireless Multimedia Kit Specifications

Wireless Range	131ft (40m)
Video Input (Transmitter)	2 x HDMI up to 1080p (60Hz), 1920x1080 1 x Composite 1 x YPbPr Component
Video Output (Receiver)	1 x HDMI up to 1080p (60Hz), 1920x1080 1 x Composite 1 x YPbPr Component
Audio	2 Ch. Linear PCM, Analog, 48kHz 16-bit ADC
Audio Input	1 x 3.5mm Audio Jack (Transmitter)
Audio Output	1 x 3.5mm Audio Jack (Receiver)
WiFi Frequency	5.15-5.25GHz
Latency	< 30ms Latency
Power	Voltage: 120V AC, 60Hz; Consumption: 12V DC, 2A

Wireless AV Wall System

Part Number	WL-AU-AVWS WL-AU-AVWS-W
Product Weight	28.50lb (12.93kg)
Dimensions (W x H x D)	47.21" x 9.75" x 5.58" (1199 x 248 x 142mm)
Color	WL-AU-AVWS - Black WL-AU-AVWS-W - White
Mounting Surfaces	Wood stud, metal stud, concrete and other structures (Other structures require accessory)

Amplifier Specifications

Power rating	25W x 2 RMS class-D amplifier
Inputs	3.5mm Auxiliary jack, 3.5mm microphone jack
Outputs	Bridgeable stereo speaker jacks
Volume Control	Wireless IR remote control with 3-foot IR extender Onboard volume control
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Power source	Voltage: 120V AC, 60Hz; Consumption: 24V DC, 2A

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Audio Input	1 x 3.5mm Audio Jack (Transmitter)
Audio Output	1 x 3.5mm Audio Jack (Receiver)
WiFi Frequency	5.15-5.25GHz
Latency	< 30ms Latency
Power	Voltage: 120V AC, 60Hz; Consumption: 12V DC, 2A

Warranty

Peerless Industries, Inc. ("Peerless-AV®") warrants to original end-users of Peerless-AV® products that Peerless-AV® products will be free from defects in material and workmanship, under normal use, for the periods listed below, from the date of purchase by the original end-user. At its option, Peerless-AV® will repair or replace with new or refurbished products or parts, or refund the purchase price of any Peerless-AV® product which fails to conform with this warranty.

In no event shall the duration of any implied warranty of merchantability or fitness for a particular purpose be longer than the period of the applicable express warranty set forth above. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This warranty does not cover damage caused by (a) service or repairs by the customer or a person who is not authorized for such service or repairs by Peerless-AV®, (b) the failure to utilize proper packing when returning the product, (c) incorrect installation or the failure to follow Peerless-AV®'s instructions or warnings when installing, using or storing the product, or (d) misuse or accident, in transit or otherwise, including in cases of third-party actions and force majeure. This warranty also does not cover corrosion or rust resulting from damaged, scratched or chipped paint or other surfaces.

In no event shall Peerless-AV® be liable for incidental or consequential damages or damages arising from the theft of any product, whether or not secured by a security device which may be included with the Peerless-AV® product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty is in lieu of all other warranties, express or implied, and is the sole remedy with respect to product defects. No dealer, distributor, installer or other person is authorized to modify or extend this Limited Warranty or impose any obligation on Peerless-AV® in connection with the sale of any Peerless-AV® product.

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

Product	Warranty Period
Mounts	5 years
Furniture	1 year
Cables	25 years
Cleaning Products	1 year
Electronic Products and components	1 year

Customer Care

Need help with installation or set up? Call Peerless-AV Customer Care
1-800-865-2112 (available 7:00am- 7:00pm CST, Monday - Friday), or email us at
info@peerless-av.com.

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