

User Guide

Wireless HD multimedia system

MODEL: HDS-WHDI100









GENERAL SAFETY PRECAUTIONS

A WARNING

RISK OF ELECTRICAL SHOCK

To reduce the risk of electric shock, do not disassemble the unit under any circumstances. No user serviceable parts inside. All product services should be done by the Peerless-AV certified service personnel.

Read before operating equipment

Thank you for purchasing our product. Before using it, please read this user manual carefully and follow the instructions correctly for safe operation. Please keep this manual handy for future reference. Also, please be sure to always include this user manual in the packaging when transferring or transporting this product to a different location.

Batteries Installed Warning

CAUTION - Danger of explosion if batteries are incorrectly replaced. Replace only with the same or equivalent type. The batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

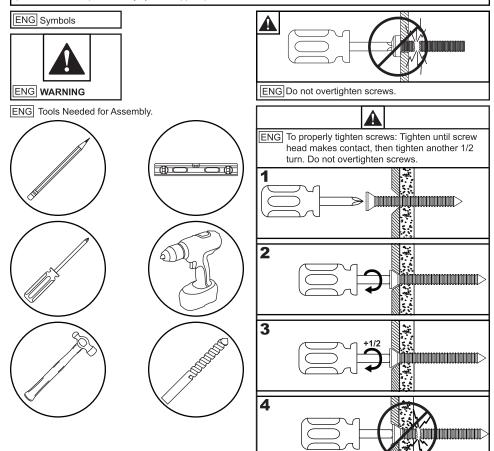
CAUTION:

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do NOT perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

- Power to the units must be switched off before any work is undertaken, such as any AV device connection or TV connection.
- To prevent electric shock, make sure to use the supplied DC adapters as power supply to the Transmitter and Receiver.
- Be sure the power cord is routed so that it will not be stepped on or pinched by heavy items.
- · Avoid overloading electrical outlets or extension cords which otherwise could result in electric shock or fire.
- Disconnect the product from the power source if it is left unattended for an extended period of time, and to
 protect the product from lightning.
- To reduce the risk of electric shocks or fire, always disconnect the power cord from the power outlet when you
 are not using your device for an extended period of time.
- This product should not be exposed to dripping or splashing liquids. No object filled with liquids, such as
 vases, should be placed on the product.
- · To avoid electric shock, never stick anything in the slots on the case or remove the cover.
- Place Transmitter and Receiver on a flat, hard and stable surface.
- Do NOT block the ventilation slots on the Transmitter or Receiver or place any heavy object on the top cover.
 Blocking the airflow could damage the Transmitter or Receiver. Arrange components so that air can flow freely around the Transmitter and Receiver. Ensure that there is adequate ventilation if the Transmitter and/ or Receiver is placed in a cabinet. Put the Transmitter and Receiver in a properly ventilated area, away from direct sunlight or any source of heat.
- To reduce the risk of fire or electric shock, do NOT expose the Transmitter and/or Receiver to water or moisture.
- · This product is intended for indoor use only.

WARNING

ENG - Before installing make sure the supporting surface will support the combined load of the equipment and hardware. Screws must be tightly secured. Do not overtighten screws or damage can occur and product may fail. Never exceed the Maximum Load Capacity. Always use an assistant or mechanical lifting equipment to safely lift and position equipment. This product is intended for indoor use only. Use of this product outdoors could lead to product failure or personal injury. For support please call customer care at 1-800-865-2112.



Federal Communication Commission Interference Statement

This equipment 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. This equipment generates, uses and can radiate radio

frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined 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:

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

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution:

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

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter

Radiation Exposure Statement (Transmitter):

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Radiation Exposure Statement (Receiver):

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only



Industry Canada Statement

-English Warning Statement:

"This device complies with Industry Canada licence-exempt RSS standard(s).

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."

of the device.

The digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-3(B).

-French Warning Statement:

"Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

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

Radiation Exposure Statement: This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

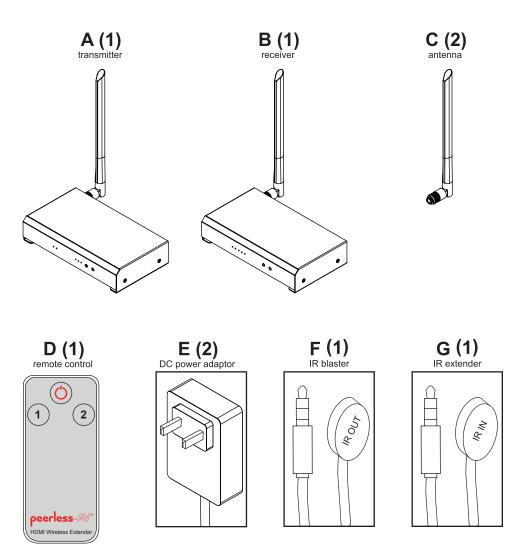
Important Information

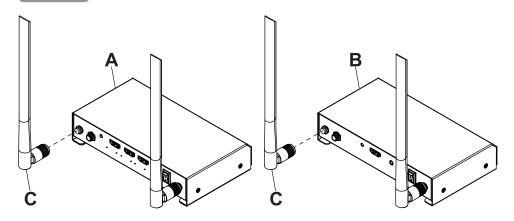
- The PeerAir™ Wireless HD Multimedia System delivers Full HD 1080p content to your existing HDTV set wirelessly.
- This system operates in the 5GHz RF band and creates an 802.11n AdHoc network for communication between transmitter and receiver. With dual external omnidirectional antennas, this system transmits Full HD 1080p content up to 100ft (30m) away line of sight.
- · Never use this product in an aircraft or a medical facility as it can cause interference or an undesirable effect.
- The use of this product in the following locations may result in abnormal video and audio output (noise, blocked image... etc.).
 - · When the product is placed near a large appliance or metal structure.
 - · A cluttered room where the wireless signals may be blocked.
- This product has been tested and manufactured to comply with each country's safety rules. However, there
 is no guarantee that interference will not occur in some installations. If interference happens, decrease the
 distance between the Transmitter and Receiver.
- · This product may interfere with 5GHz wireless devices.
- Optimal use of this product is for in-room/multi-room applications with a range of up to 100 ft. (30m) away line
 of sight.
- Any changes or modifications not expressly approved by the manufacturer of this device could void the product warranty.
- This equipment must be installed and operated in accordance with the provided instructions. The Transmitter
 must be installed to provide a separation distance of at least 8" (20cm) from all persons and must not be
 operating near or in conjunction with any other Transmitter. End users and installers must be provided with
 installation instructions and Transmitter operating conditions for satisfying RF exposure compliance.
- This device should be used only as specified within this manual to meet RF exposure requirements. Use of
 this device in a manner inconsistent with this manual could lead to excessive RF exposure conditions.
- CEC/ HDMI Control The HDS-WHDI100 does not support CEC/HDMI Control. Please ensure that CEC/ HDMI Control is disabled on all connected source equipment and displays. Instructions for this process can be found in the User Manuals for the connected devices.

Care Of The Unit

To clean, use a soft, dry cloth only. Do not use water or other cleaning products as they may cause electrical failure or damage the surface of the product.

Parts List				
	Description	Qty		
Α	transmitter	1		
В	receiver	1		
С	antenna	2		
D	remote control	1		
Е	DC power adaptor	2		
F	IR blaster	1		
G	IR extender	1		



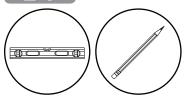


2

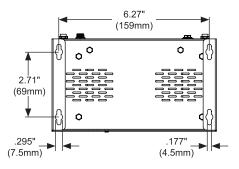
A WARNING

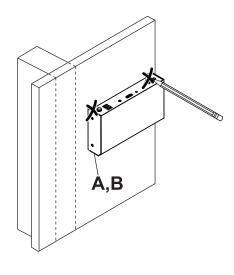
ENG - When installing Peerless media devices directly to gypsum board (drywall), verify that the gypsum board (drywall) has a minimum depth of 5/16" (8mm).

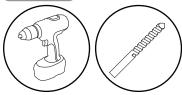


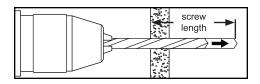


ENG Level. Use dimensions below to mark mount holes.





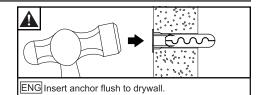


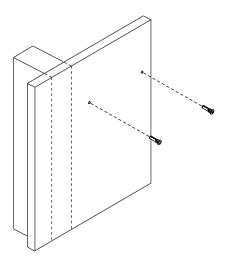


ENG Drill mounting holes into supporting surface (minimum depth = screw length).

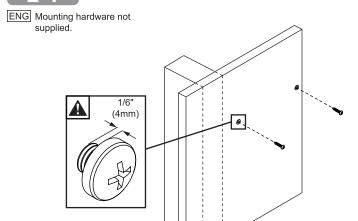
ENG Mounting hardware not supplied.







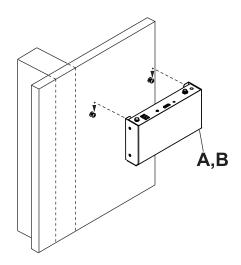
2-4

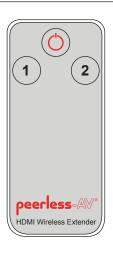




2-5

ENG Install.





Power

Toggles transmitter and receiver to standby mode

1

· Switches input to HDMI 1

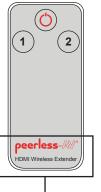
2

Switches input to HDMI 2

Remote Control Battery Installation And Replacement

The remote control is powered by one CR2025 battery.

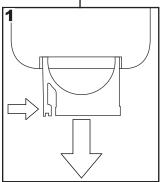
- To remove the battery cover of the remote control, pinch then pull out battery cover.
- 2. Insert new CR2025 battery into the battery module with positive side facing up.
- 3. Slide the battery cover back into the remote control.

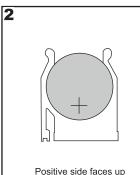


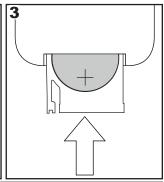
A CAUTION

Incorrect usage of batteries can result in leaks or bursting. Peerless-AV recommends the following battery use:

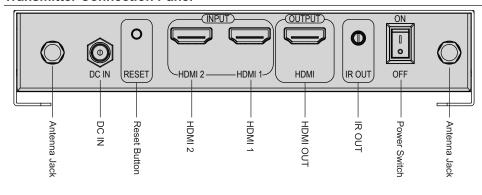
- Remove dead batteries immediately to prevent battery acid from leaking into the battery compartment.
- Do not touch exposed battery acid as it may injure skin.
- Remove the batteries if you do not intend to use the remote control for a long period of time.

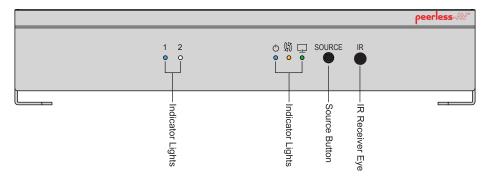






Transmitter Connection Panel





Antenna Jack

· Connects antenna to transmitter

Power Switch

· Toggles power on/off

IR OUT

 Connects IR blaster to the transmitter for remote control of AV devices that are connected to the transmitter (e.g. Blu-ray player, DVD, STB, stc.)

HDMI OUT

HDMI pass-through output port

HDMI 1

• HDMI 1 input port

HDMI 2

• HDMI 2 input port

Reset Button

· Re-establishes connection with the receiver

DC IN

• 5V DC power input port

IR Receiver Eye

Accepts commands from Peerless-AV remote only

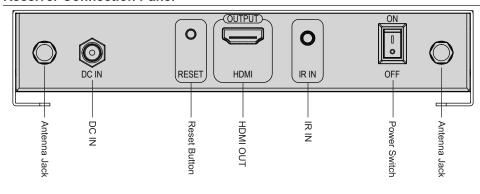
Source Button

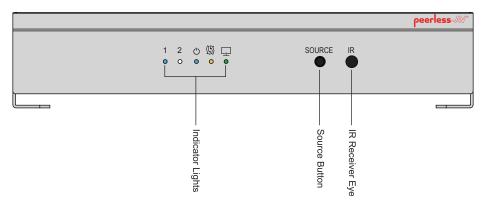
· Toggles AV device inputs

Indicator Lights

Indicates power, connection, signal and source

Receiver Connection Panel





Antenna Jack

· Connects antenna to receiver

Power Switch

· Toggles power on/off

IR IN

 Allows IR commands to be sent to the system and source equipment remotely when IR extender is connected

HDMI OUT

· HDMI output port

Reset Button

Re-establishes connection with the transmitter

DC IN

• 5V DC power input port

IR Receiver Eye

 Accepts commands from Peerless-AV remote only. For control of source equipment the IR extender must be connected to the IR in port of the receiver

Source Button

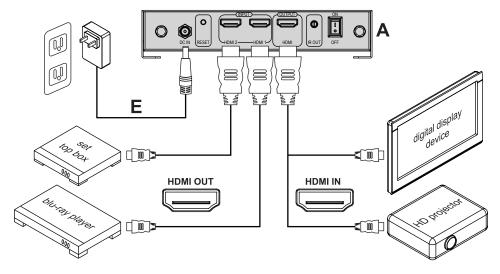
· Toggles AV device inputs

Indicator Lights

Indicates power, connection, signal and source

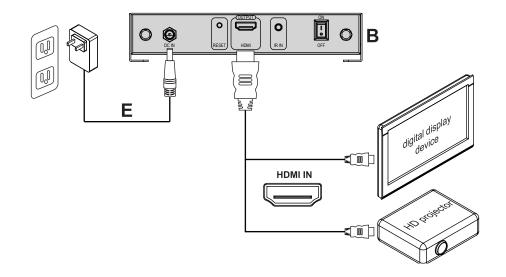
Transmitter Setup

- 1. Connect HDMI cable (not included) from source device's **HDMI OUT** port to Transmitter's **HDMI 1** port. Repeat for **HDMI 2** port if a second source device is to be connected.
- 2. (Optional) If connecting to digital display device using wired connection, plug HDMI cable (not included) from Transmitter's **HDMI OUT** port to digital display device's **HDMI IN** port.
- 3. Plug DC Power Adapter into power outlet.



Receiver Setup

- 1. Connect HDMI cable from Receiver's **HDMI OUT** port to digital display device's **HDMI IN** port.
- 2. Plug DC power adapter into a power outlet.



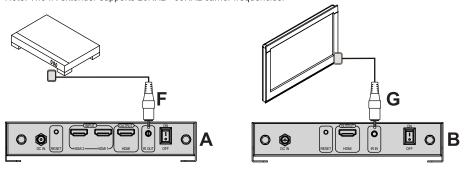
IR Blaster and Extender Setup

Connect the IR Blaster into the IR OUT port of the Transmitter. Place the IR Blaster near the IR window of the source devices and adhere the IR Blaster in place, so that it does not move.

Connect the IR Extender into the **IR IN** port of the Receiver. Adhere the IR Extender Eye in a location that is unobstructed. The IR Extender Eye is where the remote should be aimed for source or system control

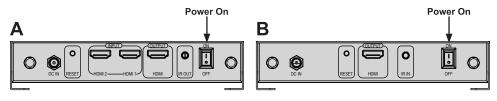
When the IR Blaster and IR Extender are connected, source devices can be controlled from Receiver location.

Note: The IR extender supports 20KHz - 60KHz carrier frequencies.

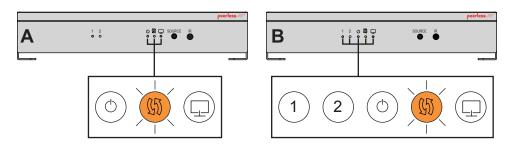


System Operation

1. Power on the transmitter, receiver and the display that you would like to view content on.

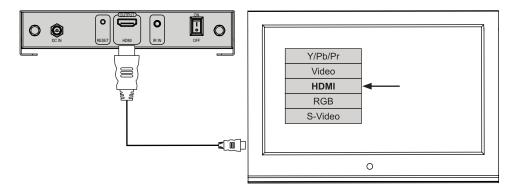


2. During boot-up, the connection indicator light will slowly blink orange until the signal link between the Transmitter and Receiver is established, between 60 - 70 seconds. Once the transmitter and receiver have established a connection the orange connection indicator light will begin to blink rapidly.

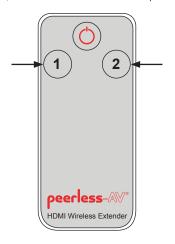


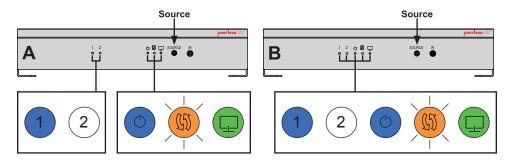
System Operation

3. Check that your digital display device is turned on and set to the proper HDMI input.



4. Press the desired HDMI input on the remote control, or the **SOURCE** button on the front of the Transmitter or Receiver, to select the desired AV source input.





5. Under normal operation the Power indicator light will be illuminated solid blue, the orange connection light will rapidly blink orange, the signal detection light will illuminate solid green, the selected source indicator light will be solid blue and the unselected source light will not be illuminated.

Troubleshooting

Power indicator light does not light up	 Check the power connections on the transmitter and receiver to ensure they are properly inserted into a functioning power outlet. Ensure the power switch is in the ON position.
No video is displayed on screen	 Verify that the proper cables have been selected and installed between the Transmitter input and your source device output. On the digital display device's side (connected to the Receiver), select the HDMI port that the receiver is connected to as the input source. Ensure the transmission range between the Transmitter and Receiver is NOT over 100 ft. (30m) line of sight (LOS) Move the Transmitter closer to the Receiver.
"Please check TX input signal" displayed on screen	 Ensure your video resolution and frame rate is supported and within the transmission range. Connect the source device to your digital display device to check and modify the video format compatibility. Check that the resolution of your source device is set to 1080p, 1080i, 720p, 576p, 576i, 480p, or 480i. Refer to the Supported Resolution section. Ensure the proper cables are connected between the Transmitter and your source devices. Ensure your source devices connected to the Transmitter are powered on.
No signal displayed on screen	Ensure the proper cables are connected between receiver and digital display device.
Poor picture quality or intermittent video	Check that the resolution of your device is set to 1080p, 1080i, 720p, 576p, 576i, 480p, or 480i. Please refer to the Supported Resolution section. Ensure the transmission distance is less than 100 ft. (30m) line of sight (LOS).
No audio	Check your digital display device's volume is properly set and not set to "MUTE" mode. Check if your source device's audio volume has been turned up.
IR Blaster cannot control AV device	Ensure that the IR extender is plugged into the IR IN port on the Receiver and that the source remote is being aimed at the extender. Check the location and position of the IR Blaster on the AV device. Refer to IR Blaster Setup in the Setup and System Operation section of this manual.

Supported Resolutions

Video Format Timings	Resolution	Support
	Primary CEA Video Timing	
720x480i @ 60Hz	480i	YES
720x480p @ 60Hz	480p	YES
720x576i @ 50Hz	576i	YES
720x576p @ 50Hz	576p	YES
1280x720p @ 50Hz	720-	YES
1280x720p @ 60Hz	- 720p	YES
1920x1080i @ 50Hz	1080i	YES
1920x1080p @ 50Hz	4000-	YES
1920x1080p @ 60Hz	1080p	YES
	Secondary CEA Video Timing	
1920x1080p @ 24Hz		YES
1920x1080p @ 25Hz	1080P / 24	YES
1920x1080p @ 30Hz	1 [YES
	PC Resolutions	
800x600p @60Hz	600p	YES
1280x720p @60Hz	720p	YES
1360x765p @60Hz	765p	YES
1024x768p @60Hz		YES
1280x768p @60Hz	768p	YES
1366x768p @60Hz] [YES
1280x800p @60Hz	800p	YES
1440x900p @60Hz	900p	YES
1280x1024p @60Hz	1024p	YES
1440x1050p @60Hz	1050	YES
1680x1050p @60Hz	- 1050p	YES
1920x1080p @60Hz	1080p	YES

Audio Bit Rate Support

^{• 2-}channel PCM: 16 - 24 bits audio sampling with 32 - 192KHz sampling rate as below:

2 Channel PCM	32 - 192 KHz
16 bits	YES
24 bits	YES

Product Specifications

HDS-WHDI100					
Supported Video Resolutions	HDMI Input	1080p, 10080i, 720p, 576p, 576i, 480p, 480i			
Supported Audio Resolutions	Digital Audio	LPCM, PCM			
Transmission Distance	Up to 100 feet line of sight				
Antenna	4x omnidirectional (external)				
Operating Frequencies	erating Frequencies 5.745-5.825GHz				
Power Supply	100-240V AC in, 5V DC power adaptor				
Operating Temperature	32° F - 140° F (0° C - 60° C)				
Operating Relative Humidity	10% - 90%				

^{*} Transmission distance will depend on actual environment. Distance based on line-of-sight. Structures constructed of steel, wood, concrete, or/and brick may decrease transmission distance.

Interface	Transmitter	Receiver	
Dimensions (W x H x D)	6.85" x 1.41" x 5.43" (174 x 36 x 138mm)	6.85" x 1.41" x 5.43" (174 x 36 x 138mm)	

The Product is warrantied to be free from defects in material and workmanship, given normal use and care, for 1 Year from the original purchase date with proof of purchase. Please retain a copy of your receipt as you will need this to obtain warranty work. We will repair or replace the product which fails as a result of such a defect during the warranty period. The accessories are not covered by this warranty.

This warranty is the customers' exclusive remedy for product defect and does not apply to:

- Any modifications made to the product in any way by the consumer
- Attachments to the product by the consumer that causes product damage
- Any product which the seals/and or serial numbers and/or logos have been broken, removed or tampered with, defaced, or altered in any manner
- Damage caused by abuse, misuse, accident, water, or theft
- Physical damage
- Loss of the Accessories

Except as stated above, Peerless Industries, Inc. makes no express or implied warranties as to any product, in Particular, makes no warranty of merchantability or fitness for any particular purpose. Peerless Industries, Inc. shall not be liable for consequential or incidental damages arising from any product defect. Our liability is limited to replacement of any defective product as stipulated under the warranty conditions. Peerless Industries, Inc. expressly disclaims all warranties not satisfied in this limited warranty. Any implied warranties that may be imposed by law are limited to the terms of this limited warranty.



Peerless-AV 2300 White Oak Circle Aurora, IL 60502 Ph: (800) 865-2112 Fax: (800) 359-6500 www.peerless-av.com

Peerless-AV Europe Unit 3 Watford Interchange, Colonial Way, Watford, Herts, WD24 4WP, United Kingdom Customer Care +44 (0) 1923 200100 www.peerless-av.com

Ave de las Industrias 413 Parque Industrial Escobedo Escobedo N.L Mexico 66062 Servicio al Cliente +52 (81) 8384-8300 www.peerless-av.com

© 2017, Peerless Industries, Inc. © 2017, Peerless Industries, Inc.