



Simply Better Connections

ATEN VanCryst™

VE809

HDMI Wireless Extender
User Manual

Compliance Statements

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital service, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy. 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:

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

The 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.



KCC Statement

유선 제품용 / B 급 기기 (가정용 방송 통신 기기)
 이 기기는 가정용 (B 급) 전자파적합기기로서 주로 가정에서 사용하는
 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

HDMI Trademark Statement

The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

**RoHS**

This product is RoHS compliant.

The frequency and maximum EIRP Power in EU are listed as below

Transmitter:

5.19G~5.31GHz:22.63 dBm

5.51G~5.67GHz:22.71 dBm

Receiver:

5.18G~5.24GHz:22.18 dBm

5.19G~5.31GHz:21.92 dBm

5.51G~5.67GHz:21.86 dBm

Operation in the 5.15~5.35GHz band are restricted to indoor usage only.

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement:

- 1.This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- 2.This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits established for an uncontrolled environment. This equipment must be installed and operated with a minimum distance of 20 cm between the radiation source and your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC 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.

Operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

La bande 5150-5250 MHz est réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

About this Manual

This User Manual is provided to help you get the most from your system. It covers all aspects of installation, configuration and operation. An overview of the information found in the manual is provided below.

Chapter 1, *Introduction*, introduces you to the VE809 system. Its purpose, features and benefits are presented, its front and back panel components and remote control are described.


Chapter 2, *Hardware Setup*, describes how to set up your installation. The necessary steps needed to install the transmitter, receiver, and IR blaster are explained.

Chapter 3, *Operation*, explains the fundamental concepts involved in operating the VE809, IR Blaster cable, remote control, and EDID management.

An Appendix, provides specifications, troubleshooting, and other technical information regarding the VE809.

Conventions

This manual uses the following conventions:

Monospaced	Indicates text that you should key in.
[]	Indicates keys you should press. For example, [Enter] means to press the Enter key. If keys need to be chorded, they appear together in the same bracket with a plus sign between them: [Ctrl+Alt].
1.	Numbered lists represent procedures with sequential steps.
◆	Bullet lists provide information, but do not involve sequential steps.
>	Indicates selecting the option (on a menu or dialog box, for example), that comes next. For example, Start > Run means to open the <i>Start</i> menu, and then select <i>Run</i> .
	Indicates critical information.

Package Contents

The VE809 package consists of:

- ◆ 1 VE809T HDMI Wireless Extender
- ◆ 1 VE809R HDMI Wireless Extender
- ◆ 1 IR remote control
- ◆ 1 IR blaster cable
- ◆ 1 power adapter (VE809T only)
- ◆ 1 USB Mini-B power adapter (VE809R only)
- ◆ 2 AAA batteries
- ◆ 1 HDMI cable
- ◆ 1 user instructions*

Check to make sure that all the components are present and that nothing got damaged in shipping. If you encounter a problem, contact your dealer.

Read this manual thoroughly and follow the installation and operation procedures carefully to prevent any damage to the unit, and/or any of the devices connected to it.

* Features may have been added to the VE809 since this manual was published. Please visit our website to download the most up-to-date version.

Product Information

For information about all ATEN products and how they can help you connect without limits, visit ATEN on the Web or contact an ATEN Authorized Reseller. Visit ATEN on the Web for a list of locations and telephone numbers:

International	http://www.aten.com
North America	http://www.aten-usa.com

User Information

Online Registration

Be sure to register your product at our online support center:

International	http://eservice.aten.com
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Technical Support

When you contact us, please have the following information ready beforehand:

- ◆ Product model number, serial number, and date of purchase.
- ◆ Your computer configuration, including operating system, revision level, expansion cards, and software.
- ◆ Any error messages displayed at the time the error occurred.
- ◆ The sequence of operations that led up to the error.
- ◆ Any other information you feel may be of help.

International

- ◆ For online technical support – including troubleshooting, documentation, and software updates, go to **<http://eservice.aten.com>**
- ◆ For telephone support, call this number:

International	886-2-8692-6959
China	86-400-810-0-810
Japan	81-3-5615-5811
Korea	82-2-467-6789
North America	1-888-999-ATEN ext 4988 1-949-428-1111

North America

Email Support		support@aten-usa.com
Online Technical Support	Troubleshooting Documentation Software Updates	http://www.aten-usa.com/support
Telephone Support		1-888-999-ATEN ext 4988

User Notice

All information, documentation, and specifications contained in this manual are subject to change without prior notification by the manufacturer. The manufacturer makes no representations or warranties, either expressed or implied, with respect to the contents hereof and specifically disclaims any warranties as to merchantability or fitness for any particular purpose. Any of the manufacturer's software described in this manual is sold or licensed *as is*. Should the programs prove defective following their purchase, the buyer (and not the manufacturer, its distributor, or its dealer), assumes the entire cost of all necessary servicing, repair and any incidental or consequential damages resulting from any defect in the software.

The manufacturer of this system is not responsible for any radio and/or TV interference caused by unauthorized modifications to this device. It is the responsibility of the user to correct such interference.

The manufacturer is not responsible for any damage incurred in the operation of this system if the correct operational voltage setting was not selected prior to operation. PLEASE VERIFY THAT THE VOLTAGE SETTING IS CORRECT BEFORE USE.

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Chapter 1

Introduction

Overview

The VE809 HDMI Wireless Extender extends your HDMI display up to 30m* from the HDMI source using wireless technology. Easily connect two HDMI devices to an HDTV wirelessly with crystal clear image quality capable of streaming Full 1080p with 5.1 channel digital audio and 3D technology. The IR remote control allows you to switch between HDMI source devices from the receiver side, remotely; and allows you to watch a local and wirelessly connected HDTV- simultaneously. The VE809 consists of a wireless audio/video transmitter and receiver. Consolidate your HDMI electronics and use the VE809 as a wireless 2-port HDMI switch to connect remote devices such as Blu-ray players and HD Cable boxes to design your own custom wireless entertainment space.

* Distance may vary depending on the actual environment; solid objects such as steel, concrete, or brick may cause interference and shorten the transmission distance.

Features

- ◆ Supports wireless transmission of full uncompressed 1080p HD, 3D videos up to 30 m in a line-of-sight*
- ◆ Setup two HDTVs and view HD content on two HDTVs simultaneously*
- ◆ Connect and transmit wireless video content from your Blu-ray DVD player, HD Cable box or other HDMI device wirelessly
- ◆ Supports audio formats – digital audio LPCM 7.1 channels, Dolby Digital and DTS Digital 5.1 channels
- ◆ Secure data transmission – AES 128-bit encryption
- ◆ Superior video quality: 480p, 720p, 1080i and 1080p (24 / 30 / 60fps)
- ◆ Local Transmitter: 2 HDMI Inputs and 1 HDMI Output
- ◆ Remote Receiver: 1 HDMI Output
- ◆ Keep home theater electronic devices neatly out-of-sight
- ◆ Built-in IR receiver allows control of source devices from the remote side
- ◆ Plug and Play, no software or driver installation needed
- ◆ HDCP Compliant
- ◆ Based on WHDI™ Technology – Low latency < 1ms. WHDI enables delivery of uncompressed high-definition digital video over a wireless radio channel connecting any video source to any compatible display device

* Distance may vary depending on the actual environment; solid objects such as steel, concrete, or brick may cause interference and shorten the transmission distance.

Requirements

Source Device

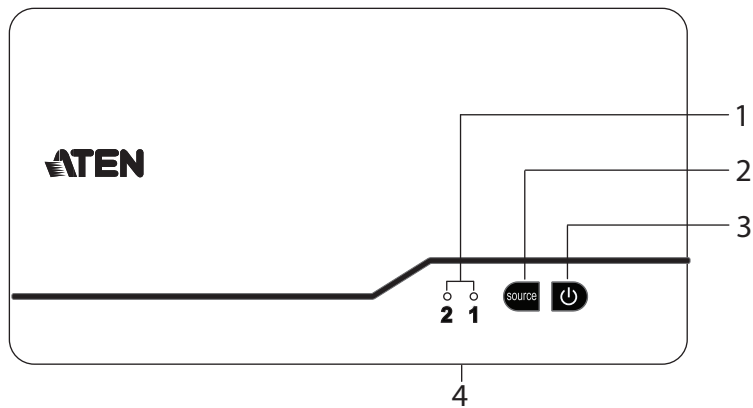
- ♦ HDMI Type-A output connector

Display Device

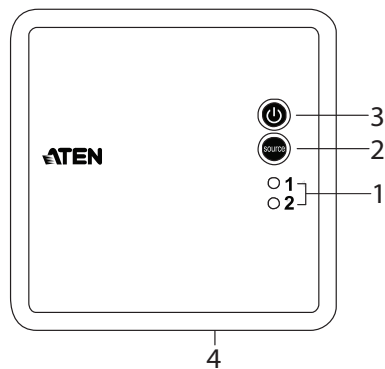
- ♦ A display device or receiver with an HDMI Type-A input connector

Components

VE809T Transmitter Front View

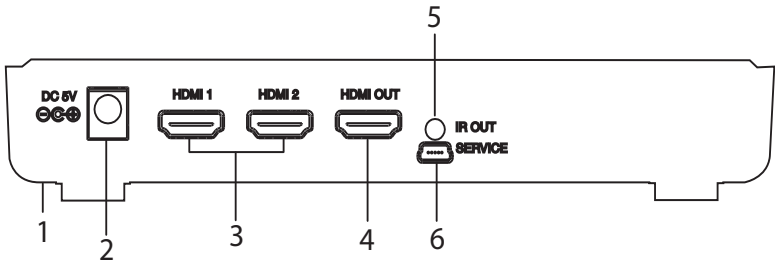


VE809R Receiver Front View

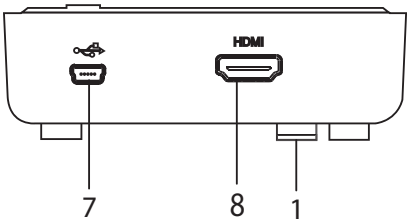


No.	Component	Description
1	port LED	The selected port LED (Blue) lights up to indicate that the port is selected for use.
2	port selection pushbutton	The port selection pushbutton switches the VE809 between the two connected HDMI media sources.
3	power pushbutton / LED	Press this button to turn the VE809 on / off. The blue LED indicates the VE809 is powered on,. The red LED indicates the VE809 is in power saving mode.
4	IR receiver	This receives the signals from the IR remote control.

VE809T Transmitter Rear View

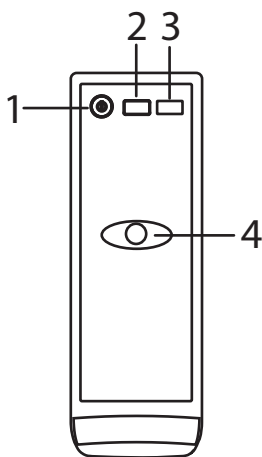


VE809R Receiver Rear View



No.	Component	Description
1	tripod bracket	Use this bracket to mount the VE809 to a tripod.
2	power jack	The power adapter cable plugs in here.
3	HDMI in	The cables from the HDMI source devices plug into these ports.
4	HDMI out	Plug the local HDMI display into this port.
5	IR blaster port	Plug the IR blaster cable that came with your unit into this port.
6	service port	This port is used by the manufacturer to service the VE809.
7	Mini USB-B power adapter port	The USB Mini-B power adapter that came with your unit plugs in here.
8	HDMI out	Plug the remote HDMI display into this port.

IR Remote Control



No.	Component	Description
1	power	Press to turn transmitter and receiver on or off.
2	info	Press to show on-screen display (OSD) information on the HDTV connected to the receiver.
3	IR	Press to switch the IR Blaster frequency to meet the media source devices requirements. Please refer to your source devices IR specifications for the correct frequency.
4	source	Press to switch between the media sources connected to the transmitters HDMI In ports.

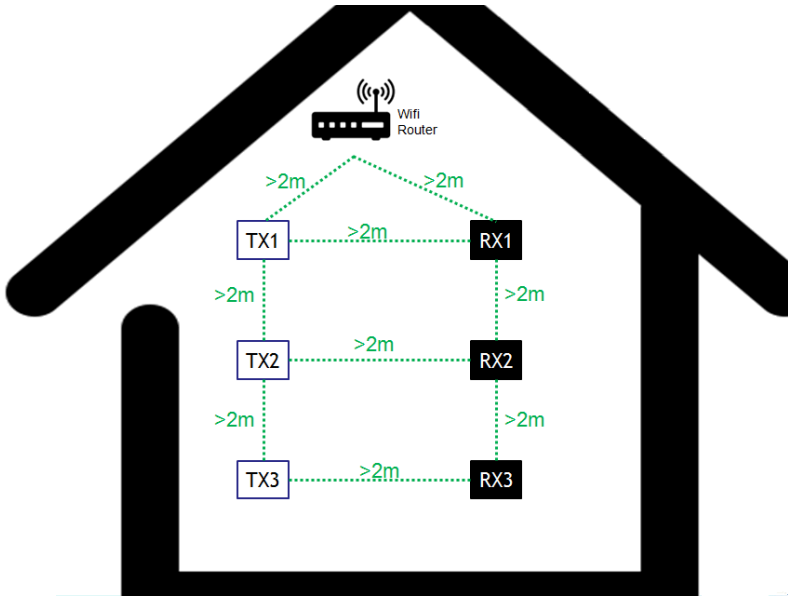
Chapter 2

Hardware Setup



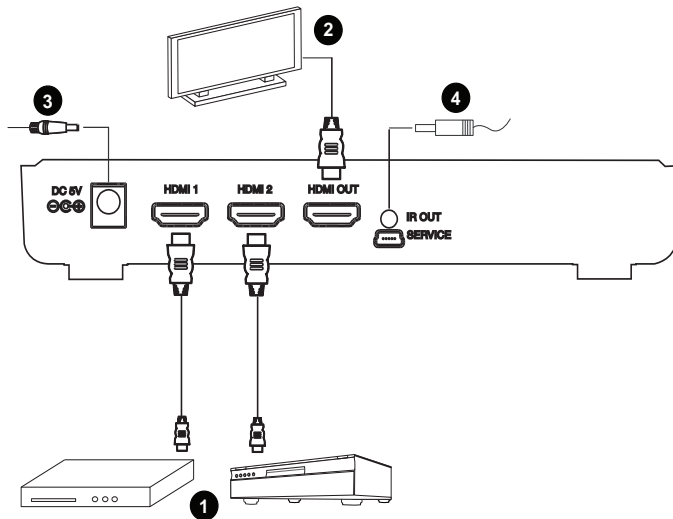
1. Important safety information regarding the placement of this device is provided on page 15. Please review it before proceeding.
2. Make sure that the power to all devices connected to the installation are turned off.

IMPORTANT: When installing multiple VE809 units, keep each unit at a distance of 2 m (3.3 ft.) or more to minimize signal interference.



Installing the VE809T

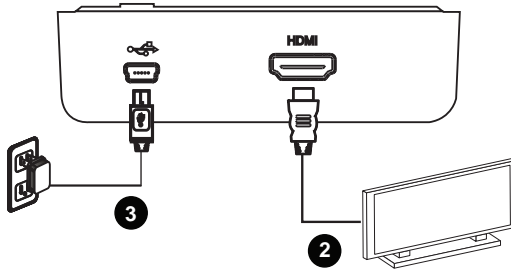
To safely install the VE809T, do the following:



1. Use an HDMI cable to connect the HDMI source device(s) to the HDMI input port(s) on the rear of the VE809T.
2. Use an HDMI cable to connect the local HDMI video display (HDTV) to the HDMI output port on the rear of the VE809T.
3. Plug the provided power adapter into an appropriate power source; plug the power adapter cable into the power jack on the VE809T.
4. Connect the IR Blaster cable included with your package into the IR out port (see *IR Blaster Installation*, page 9). (Optional)

Installing the VE809R

To safely install the VE809R, do the following:

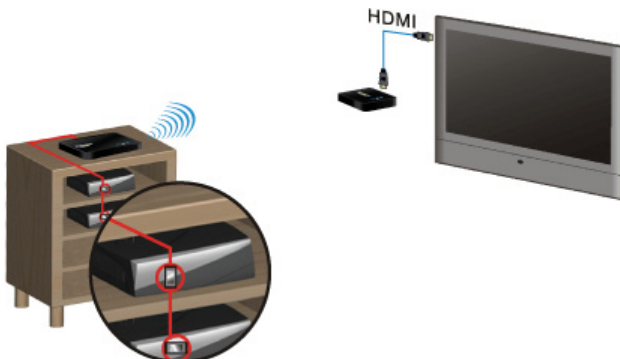


1. Place the VE809R Receiver up to 30m from the VE809T Transmitter.
2. Use the HDMI cable included with this package to connect the HDMI video display (HDTV) to the HDMI output port on the rear of the VE809R Receiver.
3. Plug the provided Mini USB Power Adapter into an appropriate power source; plug the power adapter cable into the USB port on the VE809R.

IR Blaster Installation

The IR Blaster cable allows you to use a source device's remote control from the receiver side of the installation. To install the IR Blaster, do the following:

1. Plug the IR Blaster cable into the IR Out port on the rear of the transmitter.
2. Place the IR Blaster's sensors on or near the source device(s) front panel IR sensor port(s) (refer to the devices user manual for the exact location), so that it can communicate with the IR signal, as shown in red below.



3. Adjust the IR Blasters' sensors until the remote control can be used effectively from the receiver side of the installation
4. For IR Blaster operational instructions, see *IR Blaster*, page 13, for details.

Note: The IR sensor supports 36KHz ~ 56KHz (NEC, RC5, RC6) remote signal protocols. Therefore, it is possible that some devices may not be supported for use.

Chapter 3

Operation

Overview

This chapter explains how to operate the VE809 HDMI Wireless Extender, IR Blaster, IR Remote control, and EDID management.

Basic Operation

After installing the hardware, to begin using the VE809 HDMI Wireless Extender, refer to the instructions below, and do the following:

1. Power On the Transmitter and Receiver.
2. The blue Power LED blinks on the Transmitter and Receiver until both units are wirelessly connected.
It may take up to 20 seconds to establish the wireless connection.
3. From the Receiver side, turn the TV on and select the TV's HDMI input source for the VE809 Receiver's connection.
4. From the Transmitter, turn on the source device(s) and press the Source button (on top of the unit or from the remote control) to select the source device you would like to use: **HDMI 1** or **HDMI 2**.
5. With the Power LED on both units solid blue, video from the selected source device will be broadcast on the remote HDTV connected to the Receiver.

Note: If you don't get a display on the TV connected to the Receiver, press INFO on the VE809's remote control , then refer to the on-screen display (OSD) information, and *see Troubleshooting*, page 18 to resolve the issue.

Power

To establish the best resolution for connected displays*, the VE809 will cause a normal short signal disruption to occur:

If both HDMI TVs and VE809T/VE809R units are on:

- ♦ Powering **off** and then **on** the local HDMI TV will cause the remote HDMI display signal to turn off for 5-10 seconds.
- ♦ Powering **off** and then **on** the remote HDMI TV will cause the local HDMI display signal to turn off for 5-10 seconds.
- ♦ Powering **off** the VE809 Transmitter or Receiver will cause the remote HDMI display signal to turn off, and local HDMI display signal to turn off for 5-10 seconds.
- ♦ Powering **off** and then **on** the VE809 Transmitter or Receiver will cause the local HDMI display signal to turn off for 5-10 seconds.

*For more information see *EDID Management*, page 14, for details.

IR Blaster

The IR Blaster allows you to use your HDMI source device's remote control from the TV connected wirelessly. To use the HDMI source device's remote control, install the IR Blaster (see *IR Blaster Installation*, page 9), and point the HDMI source device's remote control at the VE809R Receiver. The signal will be sent through the IR Blaster to the HDMI source device. If you experience problems using an HDMI source device's remote control, you may need to change the IR frequency to meet the source device's IR specifications (See *Troubleshooting*, page 18, for details).

IR Remote Control

The VE809's IR remote control has four buttons, used for:

Power

Press this button to power on/off the Transmitter or Receiver. When either unit is powered on via remote control, and a good wireless connection is established, the other unit will power on as well. This allows you to wirelessly power on both units, from either side.

IR

Press this button to change the RF frequency for an HDMI source device's remote control, so that it can be used from the VE809R Receiver. Refer to your source devices user manual for the correct frequency, then change the VE809's setting to match it.

INFO

Press this button to view status information about your current setup, displayed on the HDTV connected to the Receiver. This allows you to view and troubleshoot any issues. After pressing the INFO button, see *Troubleshooting*, page 18 for information on the message being displayed.

Source

Press this button to switch between the HDMI media sources connected to the Transmitter.

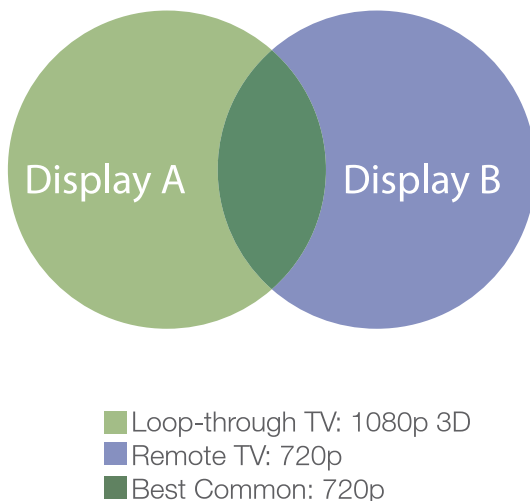
EDID Management

EDID (Extended Display Identification Data) is the data provided by digital displays to indicate their capabilities to video sources.

The HDMI Wireless Extender distributes HDMI signals from your video source to two HDMI displays. In order to deliver the best audio and video formats supported by both TVs, the VE809 reads the EDID information from both displays and determines the best “common” video resolution and audio format to send to the video source to program EDID on the device (i.e. Blu-ray players auto resolution setting).

In order to provide the best “common” output resolution, for both displays, the VE809 reads the EDID whenever a TV is plugged in, unplugged, or turned on/off. It is normal to see both TVs flash for a couple seconds when they are powered on, or when switching source devices, this allows the EDID to adjust to the best “common” resolution for all devices to use.

To get the best resolution for a (single) specific TV (i.e. 1080p 3D), you can manually change the resolution from your video source or unplug the lower resolution EDID device, then power cycle both VE809 units and connected devices. For certain 3D Blu-ray players, you may need to eject and re-insert the 3D Blu-ray disk. If your video source does not output a best “common” resolution, one of your TVs may not display any content or it might play audio only. Please refer to your devices’ user manual for further information if this issue appears. Below “Loop-through” refers to the locally connected HDTV.



Safety Instructions

General



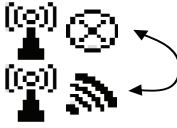


- ♦ Read all of these instructions. Save them for future reference.
- ♦ Follow all warnings and instructions marked on the device.
- ♦ Do not place the device on any unstable surface (cart, stand, table, etc.). If the device falls, serious damage will result.
- ♦ Do not use the device near water.
- ♦ Do not place the device near, or over, radiators or heat registers.
- ♦ The device cabinet is provided with slots and openings to allow for adequate ventilation. To ensure reliable operation, and to protect against overheating, these openings must never be blocked or covered.
- ♦ The device should never be placed on a soft surface (bed, sofa, rug, etc.) as this will block its ventilation openings. Likewise, the device should not be placed in a built in enclosure unless adequate ventilation has been provided.
- ♦ Never spill liquid of any kind on the device.
- ♦ Unplug the device from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- ♦ The device should be operated from the type of power source indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- ♦ To prevent damage to your installation it is important that all devices are properly grounded.
- ♦ Do not allow anything to rest on the power cord or cables. Route the power cord and cables so that they cannot be stepped on or tripped over.
- ♦ Position system cables and power cables carefully; Be sure that nothing rests on any cables.
- ♦ Never push objects of any kind into or through cabinet slots. They may touch dangerous voltage points or short out parts resulting in a risk of fire or electrical shock.
- ♦ Do not attempt to service the device yourself. Refer all servicing to qualified service personnel.



- ♦ If the following conditions occur, unplug the device from the wall outlet and bring it to qualified service personnel for repair.
 - ♦ The power cord or plug has become damaged or frayed.
 - ♦ Liquid has been spilled into the device.
 - ♦ The device has been exposed to rain or water.
 - ♦ The device has been dropped, or the cabinet has been damaged.
 - ♦ The device exhibits a distinct change in performance, indicating a need for service.
 - ♦ The device does not operate normally when the operating instructions are followed.
- ♦ Only adjust those controls that are covered in the operating instructions. Improper adjustment of other controls may result in damage that will require extensive work by a qualified technician to repair.

Specifications

Function			VE809T	VE809R
Connectors	Device	HDMI In	2 x HDMI Type A Female (Black)	N/A
	Display	HDMI Out	1 x HDMI Type A Female (Black) (Loop-through)	1 x HDMI Type A Female (Black)
	Power Jack		1 x DC Jack	1 x DC Jack (Mini USB)
	Unit to Unit		Wireless 5Ghz	Wireless 5Ghz
	IR		1 x IR receiver (Black)	1 x IR receiver (Black)
Switches	Power		1 x Pushbutton	1 x Pushbutton
	Switch		1 x Pushbutton	1 x Pushbutton
LEDs	Power		1 x Blue/Red	1 x Blue/Red
	Port ID		2 x Blue	2 x Blue
Video	HDMI Resolution		HDTV resolutions: 480p, 720p, 1080i. 1080p (24 / 30 / 60fps)	
Audio			Up to 5.1 channel digital audio	
Power Consumption			DC 5V, 10W	DC 5V, 7.5W
Transmission Distance			Up to 30m	
Environment	Operating Temp.		0–40°C	
	Storage Temp		-20–60°C	
	Humidity		0–80% RH, Non-condensing	
Physical Properties	Housing		Plastic	
	Weight		205 g	125 g
	Dimensions (L x W x H)		18.2 x 9.65 x 3.15 cm	9.5 x 9.5 x 3.15 cm

Troubleshooting

Status Description	Power LED (Receiver)	Source LED (Receiver)	OSD Display (Receiver TV)	Solution
Power saving mode	Solid Red	Off		Turn in the transmitter and receiver On using the Power button or Remote Control.
The transmitter is trying to establish a connection with the receiver.	Blinking Blue	Blinking	 4 Level Looping	The transmitter and receiver may take up to 20 seconds to establish the wireless connection.
Searches available channels if the VE809 cannot establish a connection after the system boots up.	Blinking Blue	Blinking	 Looping displays	The receiver may be out of the transmitter's range. Please shorten the distance or remove any obstacles that might be obstructing the wireless signal. The maximum video transmission distance is 30m*.
No input signal from the selected HDMI source device.	Solid Blue	Blinking (Quickly)		Check to make sure the HDMI source device is powered on and connected to the correct input port on the transmitter.
The video format is not recognized.	Solid Blue	Blinking (Slow)		The video frame rate or resolution is not supported. Please adjust related video settings or try connecting the HDMI source device directly to the TV for further troubleshooting.

Status Description	Power LED (Receiver)	Source LED (Receiver)	OSD Display (Receiver TV)	Solution
The VE809 is working properly and the video format is recognized.	Solid Blue	Solid Blue	 HDMI1 CH10 1280x1024	Signal Quality, Source, Channel, and resolution are displayed.
To change the IR frequency from the default setting.	-	-	 = 38KHz	Press the IR button on the remote control to change the IR frequency. (38KHz, 40KHz, or 33KHz)
3D Movie Support	-	-	-	3D is supported through the VE809 on all 3D capable TVs and devices. see <i>EDID Management</i> , page 14, or the 3D devices user manual for more information.

* Distance may vary depending on the actual environment; solid objects such as steel, concrete, or brick may cause interference and shorten the transmission distance.

Limited Warranty

ATEN warrants its hardware in the country of purchase against flaws in materials and workmanship for a Warranty Period of two [2] years (warranty period may vary in certain regions/countries) commencing on the date of original purchase. This warranty period includes the [LCD panel of ATEN LCD KVM switches](#). Select products are warranted for an additional year (see [A+ Warranty](#) for further details). Cables and accessories are not covered by the Standard Warranty.

What is covered by the Limited Hardware Warranty

ATEN will provide a repair service, without charge, during the Warranty Period. If a product is defective, ATEN will, at its discretion, have the option to (1) repair said product with new or repaired components, or (2) replace the entire product with an identical product or with a similar product which fulfills the same function as the defective product. Replaced products assume the warranty of the original product for the remaining period or a period of 90 days, whichever is longer. When the products or components are replaced, the replacing articles shall become customer property and the replaced articles shall become the property of ATEN.

To learn more about our warranty policies, please visit our website:
<http://www.aten.com/global/en/legal/policies/warranty-policy/>

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