



Simply Better Connections

# VE8962

VE8962 True 4K HDMI over IP  
Transmitter / Receiver with PoE  
User Manual

## Compliance Statements

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### FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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.

### Warning

Operation of this equipment in a residential environment could cause radio interference.

### Achtung

Der Gebrauch dieses Geräts in Wohnumgebung kann Funkstörungen verursachen.

### Suggestion

Shield twisted pair (STP) cables must be used with the unit to ensure compliance with FCC & CE standards.



**KCC Statement**

유선 제품용 / A 급 기기 (업무용 방송 통신 기기)

이 기기는 업무용 (A 급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정 외의 지역에서 사용하는 것을 목적으로 합니다.

## **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.

## User Information

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### Online Registration

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

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International	<a href="http://eservice.aten.com">http://eservice.aten.com</a>
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### **Telephone Support**

For telephone support, call this number:

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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

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### **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.

## **Product Information**

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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	<a href="http://www.aten.com"><u>http://www.aten.com</u></a>
North America	<a href="http://www.aten-usa.com"><u>http://www.aten-usa.com</u></a>

## Package Contents

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Check to make sure that all of the components are in working order. If you encounter any problem, please contact your dealer.

### **VE8962T**

- 1 VE8962T True 4K HDMI over IP Transmitter with PoE
- 1 RS-232 terminal block
- 1 power adapter and power cord
- 1 user instructions

### **VE8962R**

- 1 VE8962R True 4K HDMI over IP Receiver with PoE
- 1 terminal block
- 1 power adapter and power cord
- 1 user instructions

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## About This Manual

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This User Manual is provided to help you get the most from your VE8962 device and the ATEN VE Manager. It covers all aspects of installation, configuration, and operation. An overview of the information found in the manual is provided below.

**Chapter 1, Introduction and Getting Started**, introduces you to the features and purposes of VE8962 True 4K HDMI over IP Transmitter / Receiver with PoE.

**Chapter 2, Hardware Setup**, introduces you to panel components and provides step-by-step instructions for installing and setting up your VE8962 hardware.

**Chapter 3, Panel Operation**, provides LED indicator information and functions of the panel pushbuttons.

**Chapter 4, Browser Web Control**, introduces the VE Manager's main interface and walks through the process of creating and editing display layouts. It also covers general settings and explains how to back up, restore, and upgrade the VE8962 system firmware.

**Appendix**, provides product safety instructions, technical support details, and product specifications.

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### **Note:**

- ♦ Read this manual thoroughly and follow the installation and operation procedures carefully to prevent any damage to the unit or any connected devices.
- ♦ The product may be updated, with features and functions added, improved or removed since the release of this manual. For an up-to-date user manual, visit <http://www.aten.com/global/en>

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## **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 <b>Enter</b> 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.

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# Chapter 1

## Introduction and Getting Started

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### Overview

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Adopting advanced compression technology, the ATEN VE8962 Video over IP Extender consists of a transmitter VE8962T and a receiver VE8962R that can transmit up to 4096 x 2160 @ 60 Hz (4:4:4) HDMI, audio, USB 2.0, IR, RS-232 signals with ultra-low latency via a single Cat 5e/6 or fiber optic cable. Additionally, the VE8962 features power redundancy with DC in and Power over Ethernet, over IP redundancy with copper cable and fiber optical cable, operation redundancy with user-friendly web GUI, and control commands by control system.

With a built-in scaler, the VE8962 can easily upscale various input resolutions up to 4096 x 2160 @ 60 Hz, giving viewers the best visual quality across all displays. Moreover, the VE8962 is capable of embedding and de-embedding audio, allowing it to be either embedded in the HDMI stream or extracted and delivered separately.

The extender supports multiple ways of controls including pushbuttons, web GUI, RS-232, bi-directional IR, and Telnet/Reslink. The VE8962 also provides users with user-friendly web GUI to customize control rooms over web for contextual and practical usage. The VE8962 supports USB 2.0 compatibility, enabling users to access USB 2.0 peripherals. For additional local input usage, the VE8962R is equipped with local HDMI input and pushbutton for easy port switching.

Engineered to meet today's demands of large scale, multi-display, True 4K signal transmission, the VE8962 supports AV matrix switch and video wall configurations with up to 80 displays, allowing you to design creative video walls, with a combination of horizontal and vertical displays.

With limitless scalability and flexibility, the VE8962 Video over IP Extender can transmit signals from floor to floor with over IP structure via simple installation, making it an ideal and reliable solution for a wide range of environments, such as trade shows, airports, university campuses, conference centers, and shopping centers.

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## Features

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### **Light weight Compression with Ultra-low Latency**

- ◆ Extends True 4K HDMI signals over IP up to 100 m point-to-point via a single Cat 5e/6 or up to 10 km via fiber optic cable with ultra-low latency
- ◆ Delivers visually lossless high-quality video up to 4096 x 2160 @ 60 Hz (4:4:4)
- ◆ Supports HDR 10 with HDCP 2.2/ 2.3 compliant for content protection
- ◆ Supports individual stereo audio and HDMI audio formats including LPCM 7.1CH, Dolby True HD, Dolby Digital Plus, and DTS-HD Master Audio
- ◆ EDID Expert. selects the optimum EDID settings for smooth power-up, high-quality display, and the best video resolution across different screens

### **Multiple Redundant Mechanisms**

- ◆ Power redundancy – with automatic switching between DC Jack and Power over Ethernet (PoE) when both are supplied, compliant with IEEE 802.3at standard
- ◆ Over IP redundancy – transmitting over IP signals through copper cable and fiber optical cable
- ◆ Operation redundancy – user-friendly Web GUI and multiple control methods

### **Limitless Scalability and Flexibility**

- ◆ Extends AV connections from a simple point-to-point to a multi-point to multi-point setup via LAN without distance limitations
- ◆ Offers multi-functionality in extender, splitter, matrix switch, video wall, and daisy chain applications
- ◆ True 4K Scaler – converting input resolutions to optimum display resolutions
- ◆ Built-in 8KV / 15KV ESD protection
- ◆ Rack-mountable

## Quick IP Setup

- ◆ Simple configuration that requires no extensive IT experience or additional learning
- ◆ Assign ID numbers for fast installation, no complex IP settings required
- ◆ Effortlessly switches among input sources via ID number of top panel push buttons

## Web GUI-Based Management, No Additional Server PCs or Software Required

- ◆ Intuitive web GUI for central management and can work with all major operating systems
- ◆ Through the “Add Device” page while logging in for the first time on the web GUI, users can easily search all VE8962 devices
- ◆ Operated with imagery and contextualized web GUI, users can classify practical usages by importing environmental pictures to control room intuitively
- ◆ Smooth and clear 720p preview of the source on web GUI

## Spontaneous Scheduling Management

- ◆ Offers a user-friendly scheduling management function for users to pre-plan display schedule
- ◆ Provides robust and intuitive scheduling management options to help users manage all events in the calendar to as detailed as to setting events to minute intervals
- ◆ Integrates all VE8962 units to arrange profiles by grouping individual receivers or video wall
- ◆ Multiple profiles can be arranged to play in any order over a selected period of time

## Scalable Display Networks with Daisy Chain for Large-Scale Deployments

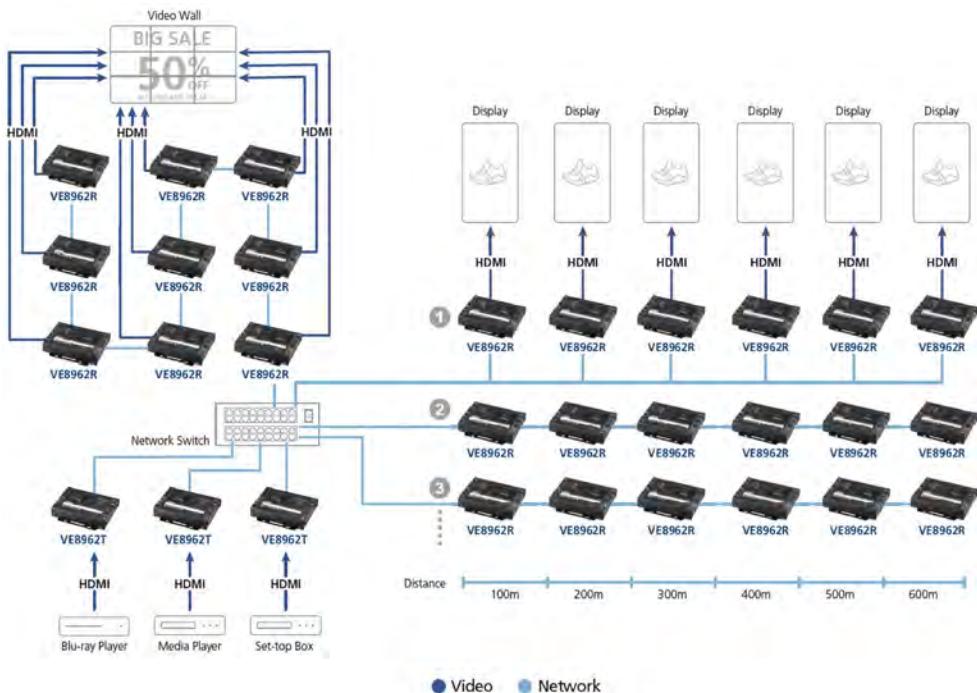
- ◆ Daisy chain for VE8962R up to 30 units

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**Note:** Only copper cable supports Daisy chain.

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- ◆ Connects multiple displays through a single port to utilize every port of the network switch and maximize their value
- ◆ Easily expandable – cabling and system deployment is easy with no huge network switches and fewer cables needed
- ◆ Perfect for large-scale deployment covering hundreds of meters through fiber optical cables, such as trade shows, airports, university campuses, conference centers, and shopping centers



## Video Wall Support

- ◆ Supports up to 8 x 10 video wall (80 displays)
- ◆ Supports horizontal or vertical (90° and 270° rotation) display orientation
- ◆ Easily switches layout profiles, previews and drag-and-drop video sources via intuitive web GUI

- ◆ Supports boundless switching, enabling operators to intuitively switch control from one computer to another by moving the mouse cursor across screens

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**Note:** To be included in a future firmware release.

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### **Embedded / De-embedded Audio Support**

- ◆ For transmitters – separate stereo audio signals can be embedded into the HDMI stream
- ◆ For receivers – audio streams can be extracted from the HDMI stream and delivered as a separate audio signal
- ◆ Supports Audio Matrix – routes audio from selected transmitters to selected receivers, allowing flexible setup based on different unit requirements

### **Multiple Control Channels**

- ◆ Local HDMI input – the VE8962R is equipped with local HDMI input for additional local input usage and push button for easy port switching
- ◆ LCM display – top-panel LCM display allows for the monitoring of the ID & IP address and device status of the extender
- ◆ USB Connectivity – USB port (USB 2.0) allows for connection of devices such as keyboard, mouse, touch screen, flash drive, printer, and other USB peripherals
- ◆ Bi-directional IR Channel – IR transmission is processed one way at a time
- ◆ RS-232 Channel – bi-directional RS-232 serial port allows for connection of peripherals such as touch screens and barcode scanners
- ◆ Supports Telnet / CLI, and SSH for remote control, management, and authorized security bypass

### **Collaboration with ATEN Control System**

- ◆ Integrated solution – Compatible with ATEN Control System, allowing users to directly operate VE8962T / VE8962R via CLI, Telnet, RS-232 or Reslink protocol

- ◆ Effortless Operation – Simple click to effectively operate VE Manager, TV, projector, source player, and related equipment via touch panel and keypad

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**Note:** If you experience issues related to your network architecture, please refer to the ATEN HDMI over IP Video Extender System Implementation Guide or contact ATEN representatives for assistance.

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### **High-Security Protection**

- ◆ AES-256 encryption for AV streaming in SRTP (Secure Real-time Transport Protocol)
- ◆ HTTPS for secure communication

## Getting Started Tasks

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Follow the steps below to install, connect, configure, and get started with your VE8962 devices.

1. Decide your network architecture and configuration. For more information, see the *ATEN HDMI over IP Video Extender System Implementation Guide*.
2. Mount your VE8962 devices on walls or racks. For more information, see *Mounting the VE8962 Device*, page 15.
3. Connect the VE8962 devices to sources, displays, network, and other hardware devices as required. For more information, see the installation diagrams on *Connecting VE8962*, page 16.
4. Use one of the following methods to assign input sources.

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**Note:** Skip this step if you have a point-to-point setup. In a point-to-point setup, source input is automatically assigned.

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- ◆ Assign input sources using the device panel.  
For more information, see *Assigning Input Video Source to VE8962R*, page 30.
- ◆ Assign input sources using VE Manager.  
For more information, see *Assigning Sources*, page 73.

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# Chapter 2

## Hardware Setup



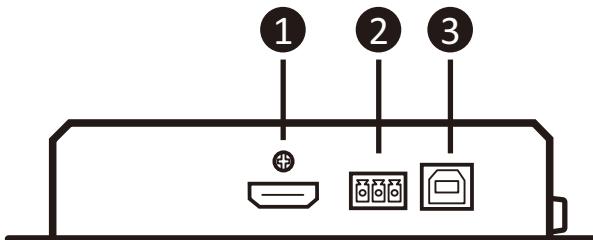
Before you proceed to hardware setup:

1. Please review the safety information regarding the placement of this device in *Safety Instructions*, page 99.
2. Do not power on the VE8962 device until all the necessary hardware is connected.

### Components

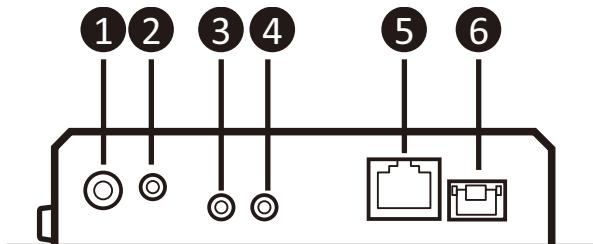
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#### VE8962T Front View

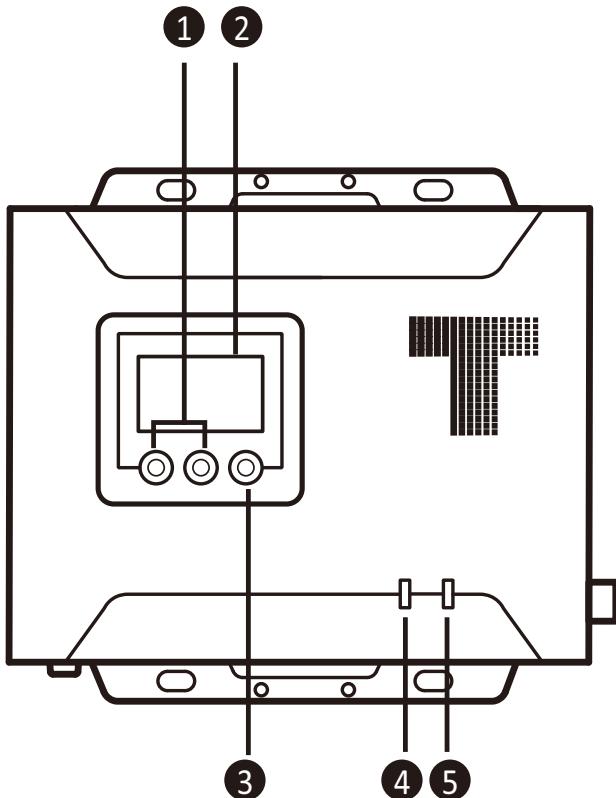


No.	Component	Function
1	HDMI in	Uses an HDMI cable to connect to a source device.
2	RS-232 serial port	Connects to an RS-232 serial devices / peripherals.
3	USB Type-B port	Connects to a source (e.g. PC / Mac).

## **VE8962T Rear View**

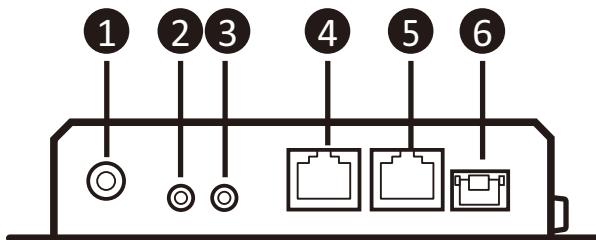


No.	Component	Function
1	power jack	Connects to the DC power adapter to provide power to the unit.
2	audio in	Connects to an audio source device.
3	IR out	Connects to an IR emitter to allow for configuration using a remote control.
4	IR in	Connects to an IR receiver to allow for configuration using a remote control.
5	RJ-45 port with PoE (LAN 1)	Uses an Ethernet cable to connect the VE8962T to an Ethernet switch or VE8962R's RJ-45 port with PoE (LAN 1).
6	SFP port	Uses an optical fiber cable to connect the VE8962T to the VE8962R's SFP port. <b>Note:</b> The SFP module is sold separately. Please contact your ATEN dealer for product information.

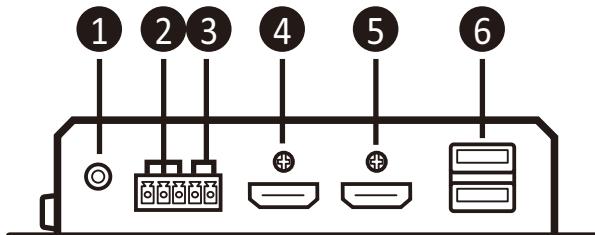
**VE8962T Top View**

No.	Component	Function
1	prev / next buttons	Uses the prev / next buttons to assign IDs to all VE8962 units and then assign an input source of VE8962T to VE8962R units.
2	LCD display panel	Shows the unit's basic information including ID, IP address, and firmware version.
3	enter button	Uses the enter button to confirm the selection.
4	PoE LED	Lights green to indicate the unit is receiving PoE power.
5	DC in LED	Lights green to indicate the unit is receiving DC power from the power supply.

## **VE8962R Front View**

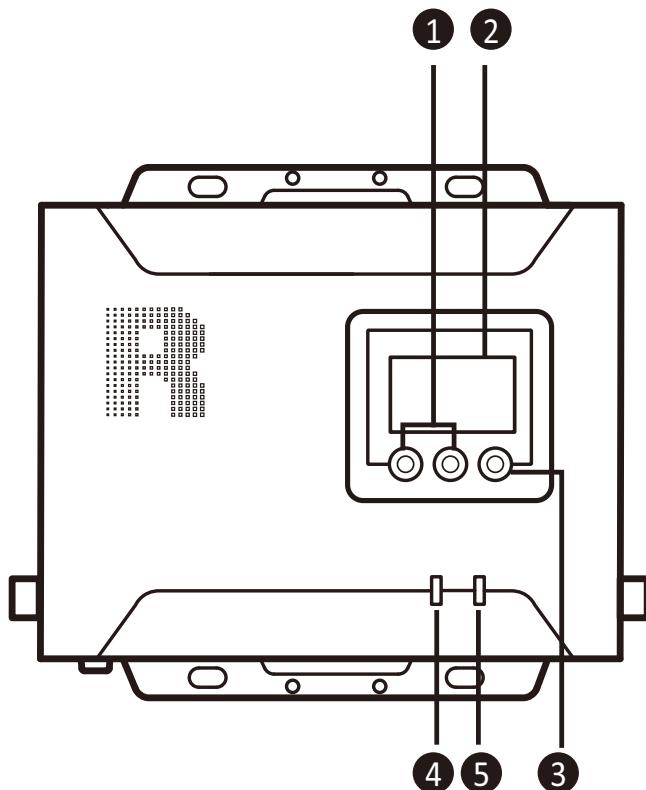


No.	Component	Function
1	power jack	Connects to the DC power adapter to provide power to the unit.
2	IR out	Connects to an IR emitter to allow for configuration using a remote control.
3	IR in	Connects to an IR receiver to allow for configuration using a remote control.
4	RJ-45 port with PoE (LAN 1)	Uses an Ethernet cable to connect the VE8962R to an Ethernet switch or VE8962T's RJ-45 port with PoE (LAN 1).
5	RJ-45 port (LAN 2)	Uses an Ethernet cable to connect the VE8962R to the next VE8962R's RJ-45 port (LAN 2) for daisy chain connection.
6	SFP port	Uses an optical fiber cable to connect the VE8962R to the VE8962T's SFP port. <b>Note:</b> The SFP module is sold separately. Please contact your ATEN dealer for product information.

**VE8962R Rear View**

No.	Component	Function
1	audio out	Connects to an audio output device.
2	RS-232 serial port	Connects to an RS-232 serial devices / peripherals.
3	contact port (+ / GND)	Connect an optional accessory remote port selector to switch video sources connected to the VE8962R or remote over IP sources. <b>Note:</b> The remote port selector is sold separately. Please contact your ATEN dealer for product information.
4	HDMI out	Uses an HDMI cable to connect to a display device.
5	HDMI in	Uses an HDMI cable to connect to a source device.
6	USB Type-A ports	Connects to the USB peripherals such as keyboard and mouse.

## VE8962R Top View



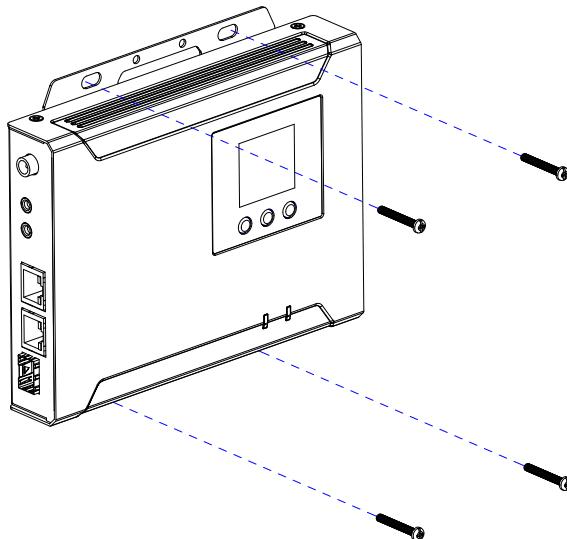
No.	Component	Function
1	prev / next buttons	Uses the prev / next buttons to assign IDs to all VE8962 units and then assign an input source of VE8962T to VE8962R units.
2	LCD display panel	Shows the unit's basic information including ID, IP address, and firmware version.
3	enter button	Uses the enter button to confirm the selection.
4	PoE LED	Lights green to indicate the unit is receiving PoE power.
5	DC in LED	Lights green to indicate the unit is receiving DC power from the power supply.

## Mounting the VE8962 Device

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### Wall Mount

Secure or hang the VE8900 / VE8950 / VE8952 device to the wall using the built-in brackets.

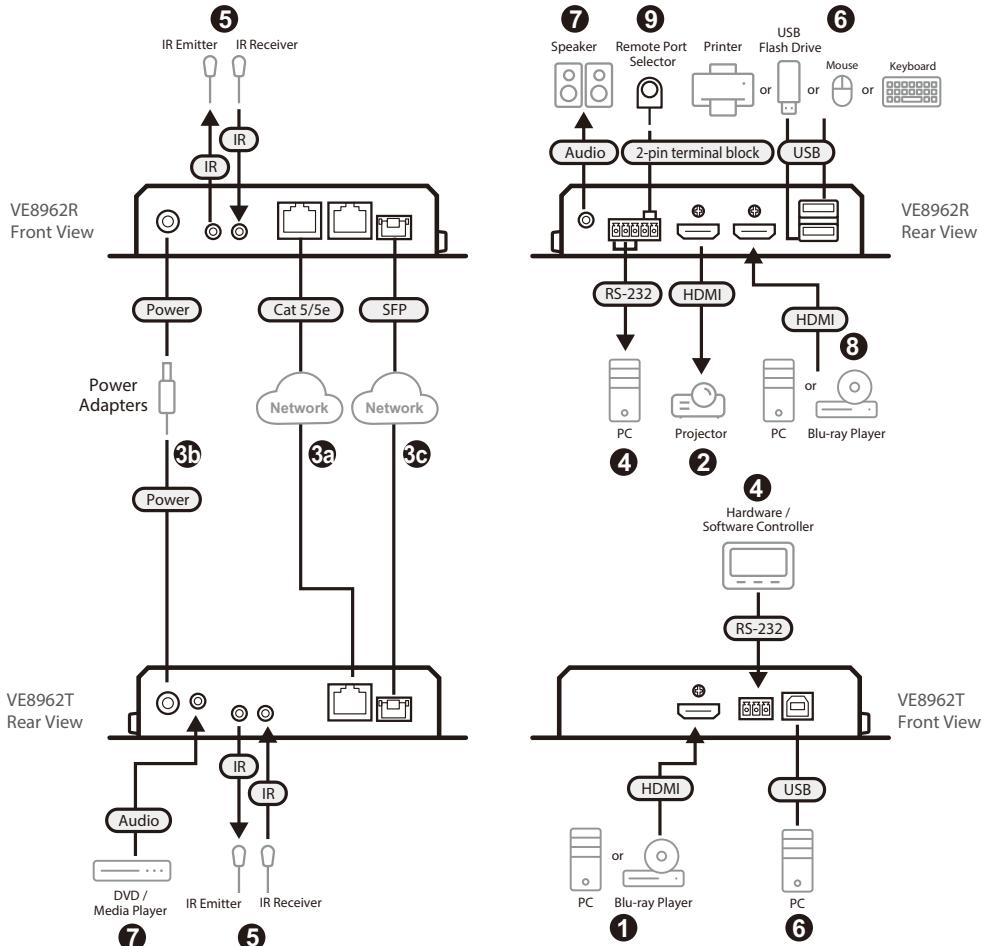


### Rack Mount

Use the VE-RMK1U Rack Mount Kit to rack-mount the VE8962. For more information about this accessory, go to [www.aten.com/products](http://www.aten.com/products)

## Connecting VE8962

Follow the steps below to connect your VE8962 devices with the hardware as required.



1. Connect a video source device to the HDMI input port on the VE8962T's front panel using an HDMI cable.
2. Connect a video display device to the HDMI output port on the VE8962R's rear panel using an HDMI cable.
3. Set up the VE8962 units as follows. The diagram above illustrates a point-to-point setup.
  - ◆ **Point-to-point setup:**
    - a) Connect one end of an Ethernet cable to the RJ-45 port with PoE (LAN 1) on the VE8962R's front panel and the other end of the cable to the RJ-45 port with PoE (LAN 1) on the VE8962T's rear panel.
    - b) Plug the power adapters into the power jacks on the VE8962R's front panel and the VE8962T's rear panel.
    - c) Connect one end of an optical fiber cable to the SFP port on the VE8962R's front panel and the other end of the cable to the SFP port on the VE8962T's rear panel.
  - ◆ **Note:** The SFP module is sold separately. Please contact your ATEN dealer for product information.
  - ◆ **Multipoint-to-multipoint setup:**
    - a) Install the VE8962R and VE8962T to the same local area network by connecting the RJ-45 ports with PoE (LAN 1) on the VE8962R's front panel and the VE8962T's rear panel to an Ethernet switch using Ethernet cables.
    - b) The VE8962 can be powered through an Ethernet cable if the unit is connected to a PoE-supported Ethernet switch. Alternatively, plug the power adapters into the power jacks on the VE8962R's front panel and the VE8962T's rear panel for power redundancy.
    - c) Follow step (a) in this procedure to connect the VE8962 unit's SFP ports to an Ethernet switch via optical fiber cables. Alternatively, you can connect both the RJ-45 ports with PoE (LAN 1) and SFP ports for network redundancy.
  - 4. (Optional) To bypass RS-232 signals, connect your computer or control system to the RS-232 serial ports on the VE8962R's rear panel and the VE8962T's front panel.

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**Note:** You can connect RS-232 serial devices / peripherals to the VE8962, such as a PC.

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5. Optional) To bypass IR signals, plug the IR receiver and IR emitter to the IR input and output ports on the VE8962R's front panel and the VE8962T's rear panel.

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**Note:** The IR receiver and emitter are sold separately. Please contact your ATEN dealer for product information.

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6. (Optional) To use keyboard and mouse, connect your USB peripherals such as keyboard and mouse to the USB Type-A ports on the VE8962R's rear panel, and your PC to the USB Type-B port on the VE8962T's front panel.
7. (Optional) Connect your audio devices to the audio output port on the VE8962R's rear panel and the audio input port on the VE8962T's rear panel.
8. (Optional) Connect another video source device to the HDMI input port on the VE8962R's rear panel using an HDMI cable.
9. (Optional) Connect an optional accessory remote port selector to switch video sources connected to the VE8962R or remote over IP sources.

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**Note:** The remote port selector is sold separately. Please contact your ATEN dealer for product information.

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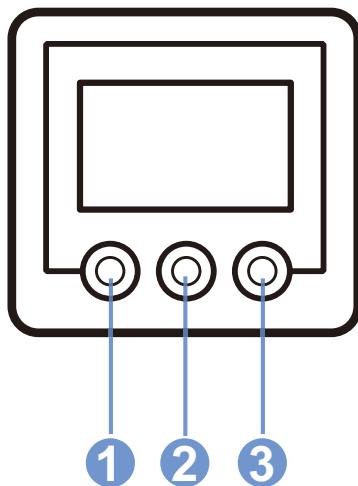
# Chapter 3

## Panel Operation

### Overview

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The VE8962 front panel features an LCD display and three navigation buttons that allow users to view and configure unit settings. The functions of the buttons are as follows:



No.	Button	Description
1	prev	Moves to the previous item in the list displayed on the LCD. Press once to go up one item; press and hold to scroll upward continuously.
2	next	Moves to the next item in the list displayed on the LCD. Press once to go down one item; press and hold to scroll downward continuously.
3	enter	Confirms the selected item. Press to enter the detailed page of the selected option for further settings or information.

## Basic Operation

### Lock Screen

#### VE8962T

When the VE8962T is powered on, the LCD displays the lock screen with the following information:



No.	Item	Description
1	connection status	Indicates the current network status: <ul style="list-style-type: none"> <li>◆ ONLINE: The unit is connected to the network.</li> <li>◆ OFFLINE: No network connection is detected.</li> </ul>
2	device ID	Displays the transmitter's ID. The default value is T000.
3	device IP address	Displays the current IP address of the transmitter.
4	lock message	The message <b>Press 3s Unlock</b> prompts the user to press and hold any button for 3 seconds to unlock the panel and enter the main menu. See <i>Main Menu</i> , page 23.

**VE8962R**

When the VE8962R is powered on, the LCD displays the lock screen with the following information:



No.	Item	Description
1	connection status	Indicates the current network status: <ul style="list-style-type: none"> <li>◆ ONLINE: The unit is connected to the network.</li> <li>◆ OFFLINE: No network connection is detected.</li> </ul>
2	device ID	Displays the receiver's ID. The default value is R0000.
3	device IP address	Displays the current IP address of the receiver.
4	input channel	Shows the ID of the paired transmitter (Tx). Displays [N/A] if the connection is lost.
5	HDMI out	Indicates the HDMI output status: <ul style="list-style-type: none"> <li>◆ Stable: Normal output</li> <li>◆ Unstable: Signal fluctuation</li> <li>◆ No Signal: No source detected</li> </ul>

No.	Item	Description
6	lock message	The message Press 3s Unlock prompts the user to press and hold any button for 3 seconds to unlock the panel and enter the Rx list page. See <i>Main Menu</i> , page 23.

## **Screen Lock and Backlight Behavior**

When the VE8962's LCD screen enters lock mode, the following behaviors occur:

### **Backlight Behavior**

- ◆ The backlight turns off automatically after 10 seconds of inactivity on the lock screen.
- ◆ To wake up the backlight, press any button once.
- ◆ If no further operation is performed within 10 seconds, the backlight turns off again.

### **Unlocking the Screen**

- ◆ To unlock the screen, press and hold any button for 3 seconds.
- ◆ Once unlocked, the screen remains active and the timer is reset.

### **Manual Lock**

- ◆ To manually lock the screen (from any page), press and hold any button for 3 seconds.
- ◆ Once the screen is locked, the backlight will turn off automatically after 10 seconds of inactivity. Pressing any button once will turn the backlight on without unlocking the screen.

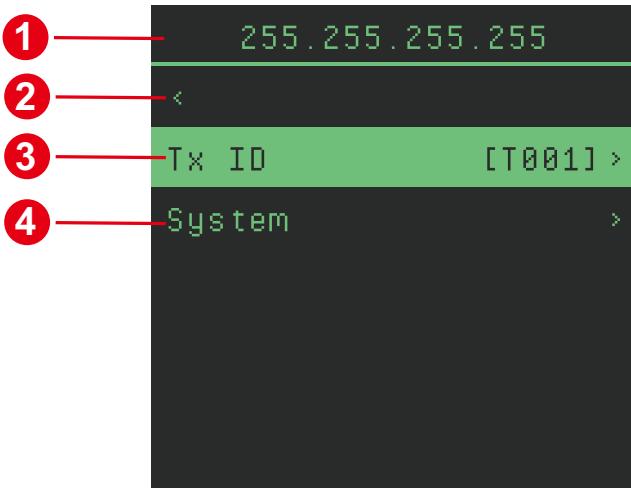
## Main Menu

---

Once the LCD screen is unlocked, the main menu appears, showing the unit's IP address and available settings.

### **VE8962T**

The VE8962T main menu displays the following:

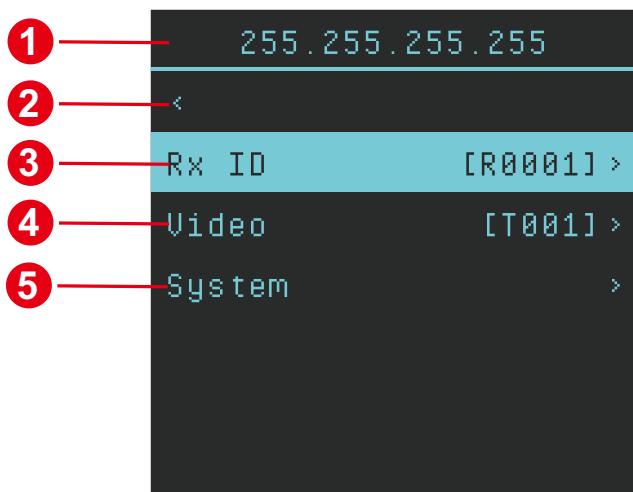


No.	Item	Description
1	IP address	Displays the IP address of the transmitter.
2	back	Returns to the previous page.
3	Tx ID	Shows the current device ID. Enter to modify the transmitter's ID.
4	System	Opens the system settings menu for configuration and status checks.

Use the navigation buttons (prev / next) to browse the options, and press enter to confirm.

## VE8962R

The VE8962R main menu displays the following:



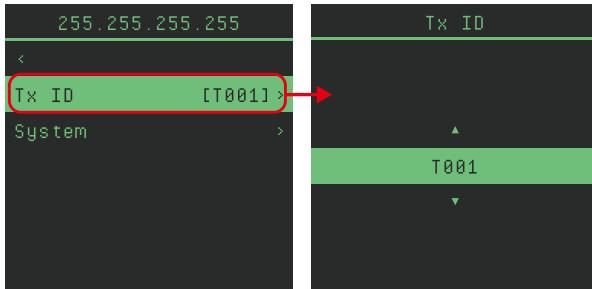
No.	Item	Description
1	IP address	Displays the IP address of the receiver.
2	back	Returns to the previous page.
3	Rx ID	Shows the current device ID. Enter to modify the receiver's ID.
4	Video	Shows the ID of the paired transmitter. Enter to reassign the video source.
5	System	Opens the system settings menu for configuration and status checks.

Use the navigation buttons (prev / next) to browse the options, and press enter to confirm.

## Setting Device ID (Tx / Rx)

To configure the device ID on the VE8962, follow the steps below:

1. From the main menu, select the Tx ID or Rx ID item to enter the ID selection screen.



2. Use the navigation buttons (prev / next) to scroll through available IDs.
  - ◆ Available IDs range from:
    - ◆ Tx: T001–T999
    - ◆ Rx: R0001–R1599
  - ◆ When there are more IDs beyond the current view, a triangle icon appears above or below the highlighted line.

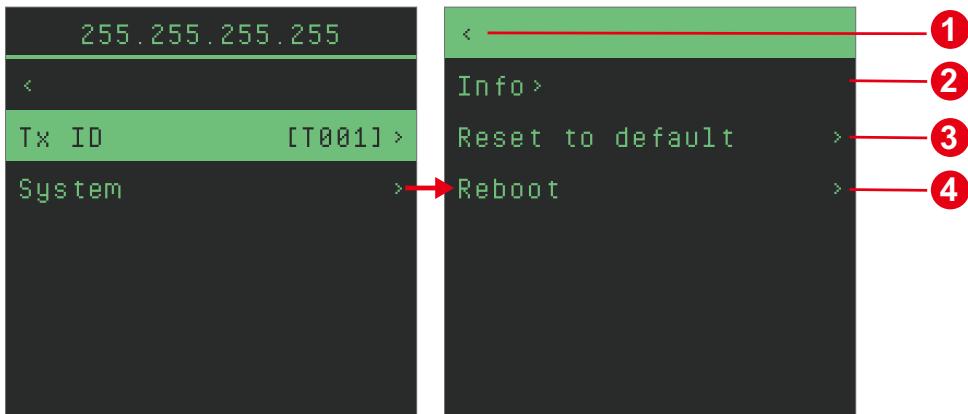
**Note:** Press and hold the navigation button to boost the speed of menu selection.

3. Press the enter button to proceed to the confirmation screen.
4. On the confirmation screen:
  - ◆ Select **OK**, then press **Enter** to apply the selected ID and return to the main menu.
  - ◆ Select **Cancel**, then press **Enter** to discard the change and return to the main menu.



## System Menu

From the System menu, users can access device information and perform basic maintenance actions.

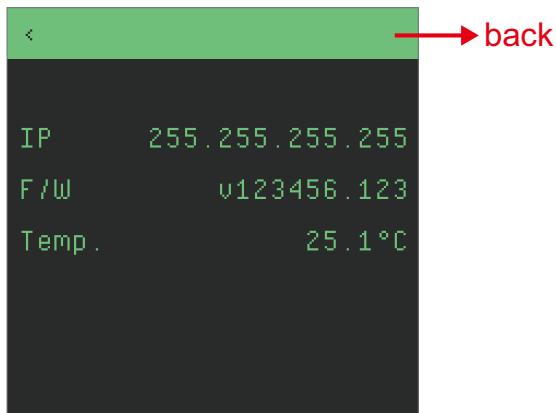


No.	Item	Description
1	back	Returns to the previous page.
2	Info	Opens the system information page, including: <ul style="list-style-type: none"><li>IP address</li><li>firmware version</li><li>device temperature</li></ul>
3	Reset to default	Restores the unit to factory settings.
4	Reboot	Powers off and restarts the unit.

Use the navigation buttons (prev / next) to select an item, and press enter to access the corresponding page.

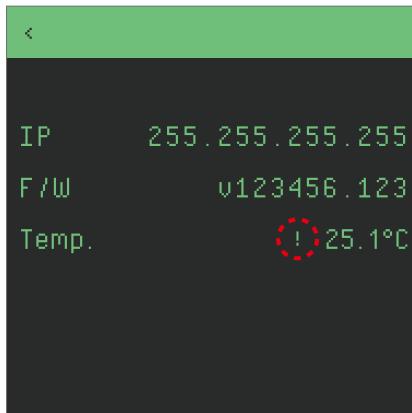
## Info Page

The Info page displays current system status..



Item	Description
back	Returns to the previous menu.
IP	Shows the unit's current IP address.
F/W	displays the firmware version.
Temp.	Indicates the current internal temperature.

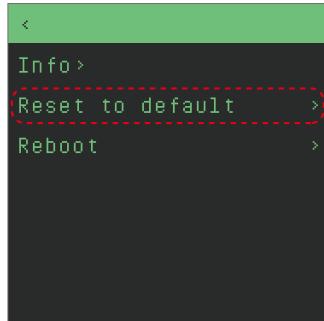
If the temperature exceeds the threshold, a warning icon appears next to the temperature value.



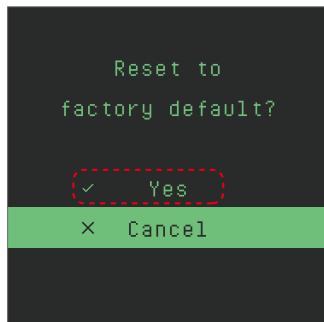
## **Reset to Default**

To restore the VE8962 to the factory default:

1. Use the navigation buttons (prev / next) to select the option **Reset to default**, and then press the enter button.

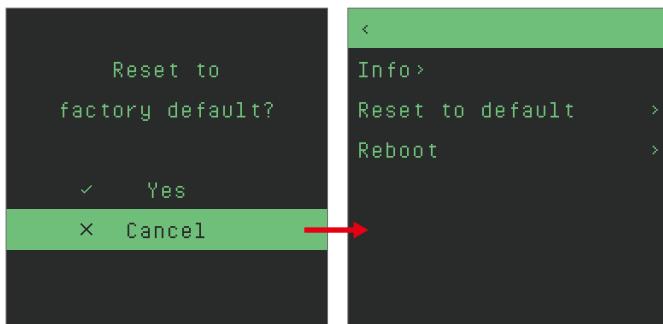


2. On the confirmation screen, select **OK** to perform the reset.



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**Note:** By selecting **Cancel**, you will go back to the system option menu screen.

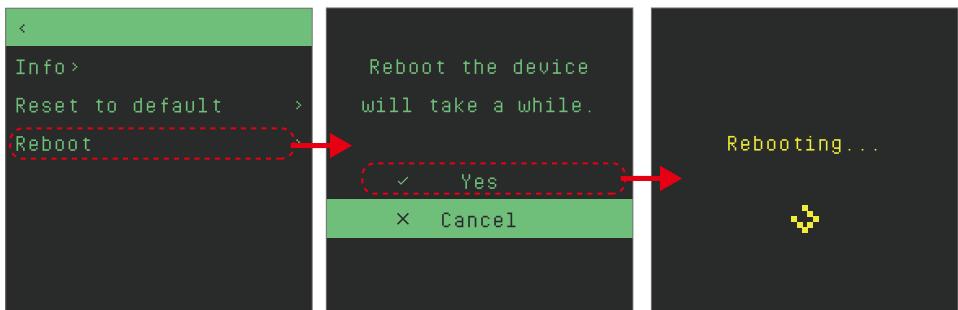


3. The reset process starts, and it will take few seconds to complete the process. Once it is done, the unit boots up again and you will enter the main menu screen.



## **Reboot**

To reboot the VE8962 unit, access the system option menu, select **Reboot**, and confirm your selection.



## Assigning Input Video Source to VE8962R

To assign a video input to VE8962R, follow the steps below:

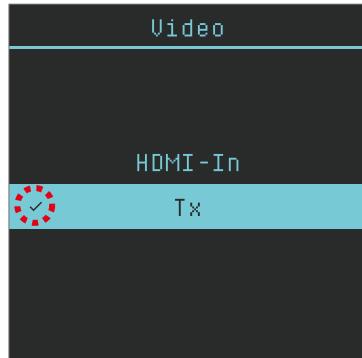
### Access the Video Menu

1. From the main menu of VE8962R, select Video to enter the video input configuration screen.



No.	Item	Description
1	HDMI-In	Select the video source from the device connected to the HDMI input port of this VE8962R unit.
2	Tx	Select the video source from a VE8962T unit on the same network. Access the Tx list screen to view available transmitters.

The currently-connected video source is marked with a tick icon.

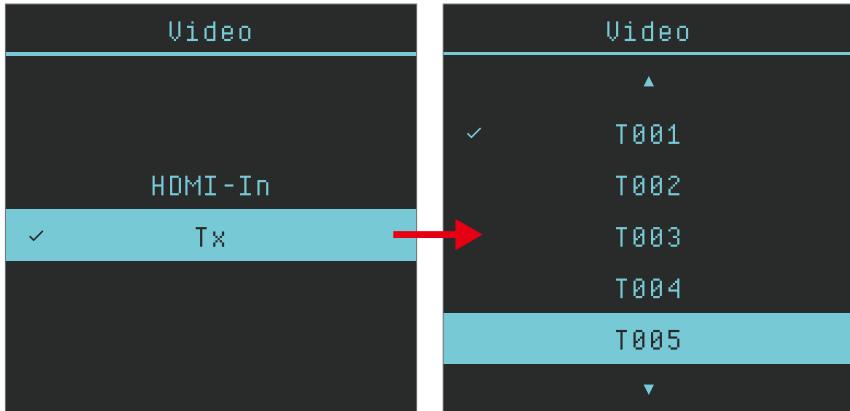


## Choose a Video Source

2. You can select one of the following options:

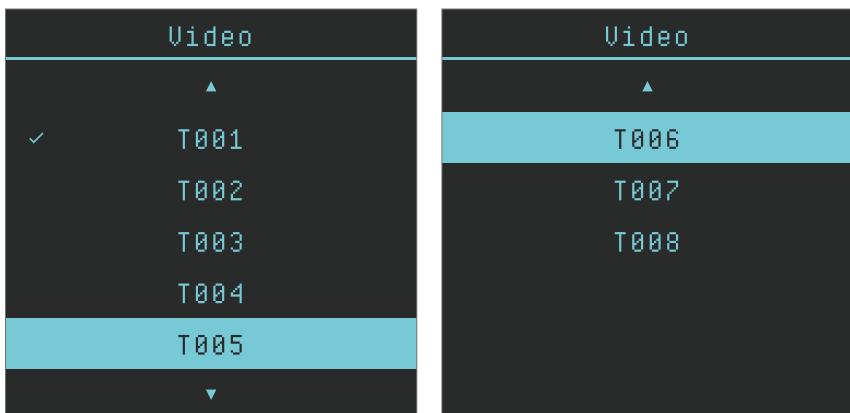
- ◆ **HDMI-In:**

Select this option to use the video source from the device connected to this VE8962R unit's HDMI input port.



- ◆ **Tx:**

Select this option to use the video source from a VE8962T unit connected to the same network. The available Tx IDs will be displayed for selection..



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**Note:** Press and hold the navigation button to boost the speed of menu selection.

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## **Status Indications**

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### **Firmware Upgrade**

Displayed when the device is processing a firmware upgrade task and needs to indicate the current progress.



The bar dynamically updates with percentage values until the operation is complete.

### **Recovery Mode**

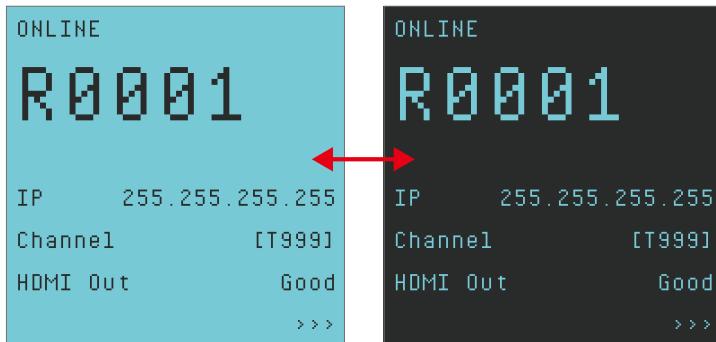
Displayed when the device enters Recovery Mode.



Only the device IP address and the **Recovery Mode** message are shown on the panel for troubleshooting purposes.

## **Finder**

Displayed when the **Finder** function is triggered from the web interface. The device panel blinks to help users identify the physical unit.



Blinking stops when:

- ♦ Stopped manually from the web GUI
- ♦ Any button on the panel is pressed
- ♦ The 60-second timeout is reached

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# Chapter 4

## Browser Web Control

### Overview

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The VE8962 transceiver can be remotely and centrally managed using a built-in utility program, the ATEN VE Manager. Accessed through a web browser, this utility provides a central platform that allows you to configure transmitter and receiver settings.

#### **Supported Browsers**

Please see the table below for supported web browsers and the versions.

Web Browser	Supported Versions
Google Chrome	115 or later
Mozilla Firefox	115 or later
Microsoft Edge	115 or later
Opera	100 or later
Safari	17 or later

## Getting Started

Go through this section to learn about how to access VE Manager and manage your VE8962 transmitters and receivers.

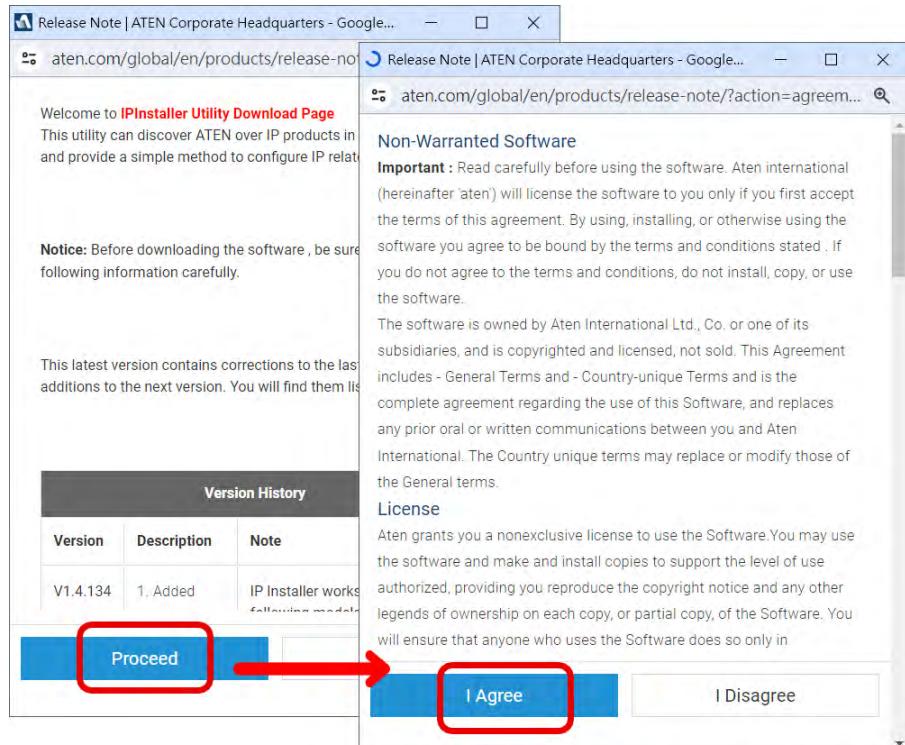
### Looking Up the Device IP Address

To access ATEN VE Manager, you need to get the device IP address first.

#### IP Installer

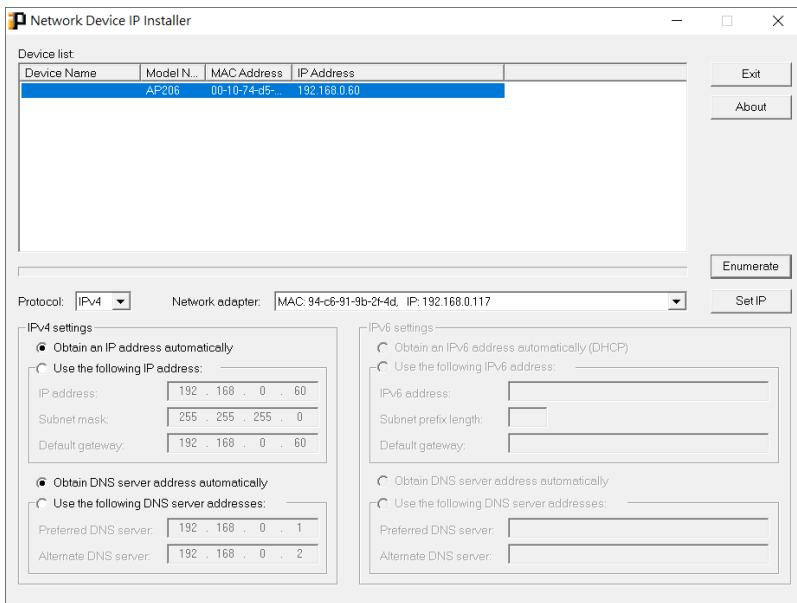
Follow the steps below to get the device IP address using the ATEN utility program, **IP Installer**.

1. Download the utility **IP Installer** from the *Support and Download* tab of the product page.



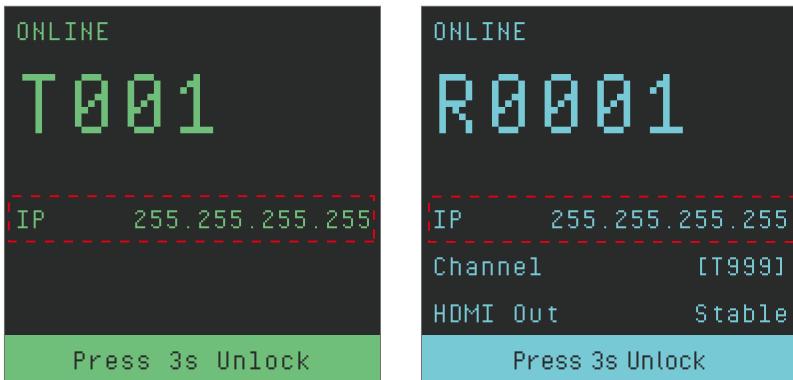
2. Unzip the .zip file of the IP Installer and then run the .exe file.

3. Obtain the IP address of the unit from the Device List, and use this IP address to access the unit's VE Manager.



## Device OSD

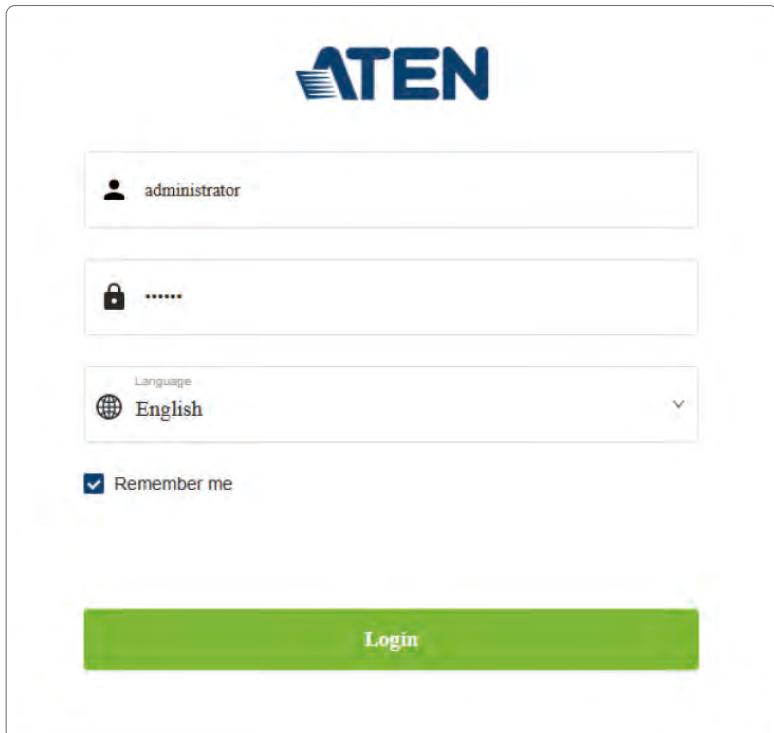
The device IP address is shown on the OSD. Check your device to obtain the IP address:



## Logging In

Follow the steps below to log in to VE Manager:

1. Start up the supported web browser, and then input the unit's IP address into the address bar.
2. The login page shows up. Enter your username and password, select the display language, and then click on **Login** button to continue.

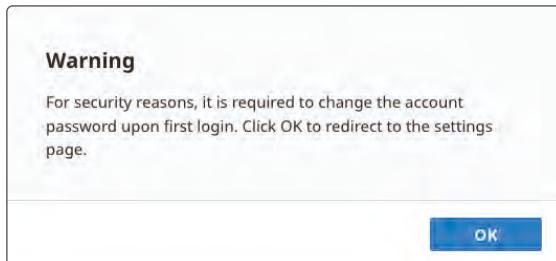


## First Login

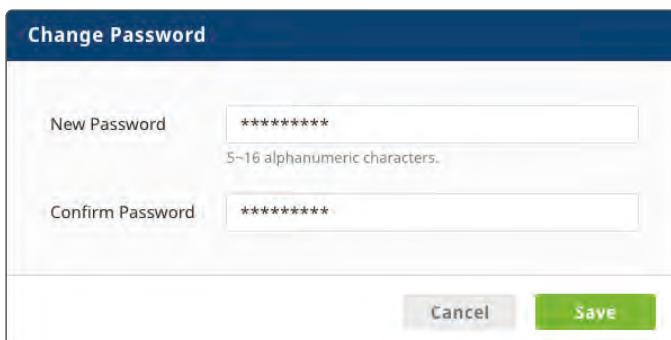
Upon first login (including the first time you log in to VE Manager after resetting the unit), you are required to set up the following settings:

### 1. Changing Password

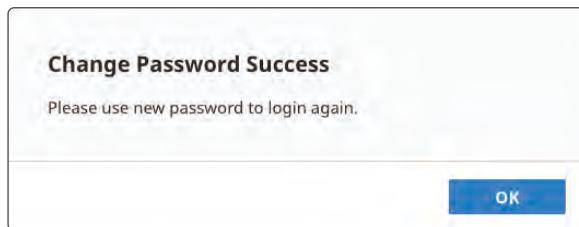
- You are prompted to change the login password. Click **OK** to proceed.



- Enter the new password and confirm your changed password in the relevant fields. Click **Save**.

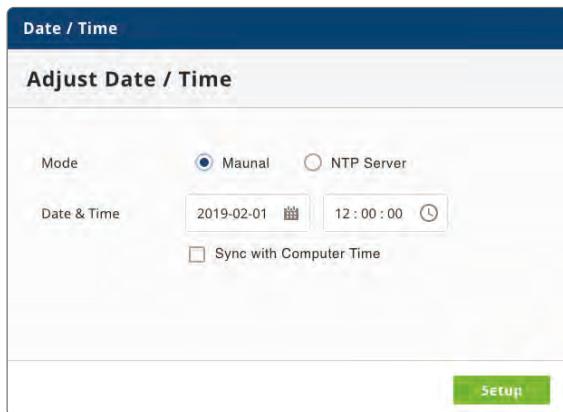


- A message "Password changed successfully" will be displayed. Click **OK** to log in again using the new password.



## 2. Updating Date & Time

Select the mode to set up the date and time.



Settings	Description
Mode	<p>Select between the two modes:</p> <ul style="list-style-type: none"> <li>◆ Manual: Set the date and time manually. By selecting <b>Manual</b>, the function <b>Date &amp; Time</b> below becomes available. Choose the date and time from the date picker and time picker.</li> <li>◆ NTP Server: Set the Network Time Protocol (NTP) to synchronize the clock between the unit and the server.</li> </ul>
Date & Time	<p>Set the date and time from the date picker and time picker.</p> <p><b>Note:</b> The function is only available when Manual mode is enabled.</p>
Sync with Computer Time	If you wish to synchronize the time with the computer's time, click the button to process the settings.

### 3. Adding Devices

Follow the on-screen instructions to add device(s) to be controlled and managed. See *Adding Device*, page 46 for details.

**Add Device**

1 Select Devices   2 Setting IP & Device Name   3 Setting IP   4 Confirm Setting

**Transmitter (999)**

ID	Device Name	MAC Address	ID Type	IP	Subnet Mask	Gateway	Primary DNS	Secondary DNS	Find Me
T001	VE8962T	E9-35-BH-28-11	Auto	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	
T002	VE8962T	E9-35-BH-28-11	Auto	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	
T003	VE8962T	E9-35-BH-28-11	Auto	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	
T004	VE8962T	E9-35-BH-28-11	Auto	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	
T005	VE8962T	E9-35-BH-28-11	Auto	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	
—	IP CAM Module	E9-35-BH-28-11	—	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	—

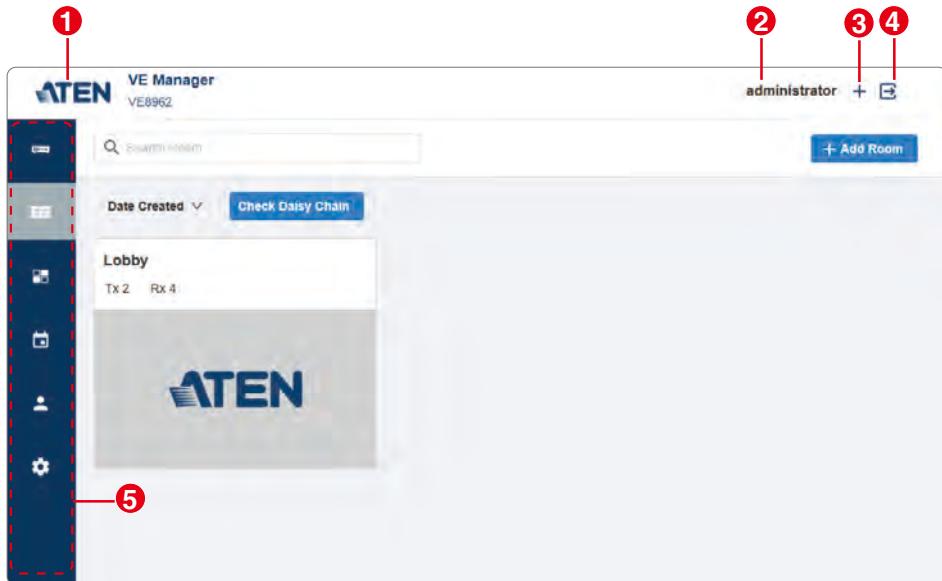
**Receiver (999)**

ID	Device Name	MAC Address	ID Type	IP	Subnet Mask	Gateway	Primary DNS	Secondary DNS	Find Me
R001	VE8962R	E9-35-BH-28-11	Auto	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	
R002	VE8962R	E9-35-BH-28-11	Auto	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	
R003	VE8962R	E9-35-BH-28-11	Auto	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	
R004	VE8962R	E9-35-BH-28-11	Auto	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	
R005	VE8962R	E9-35-BH-28-11	Auto	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	
—	—	—	—	—	—	—	—	—	—

**Buttons:** Cancel **Next**

## Main Screen

Once you log in to the unit's VE Manager, you will enter the **Room** page. The main screen features the following functions:



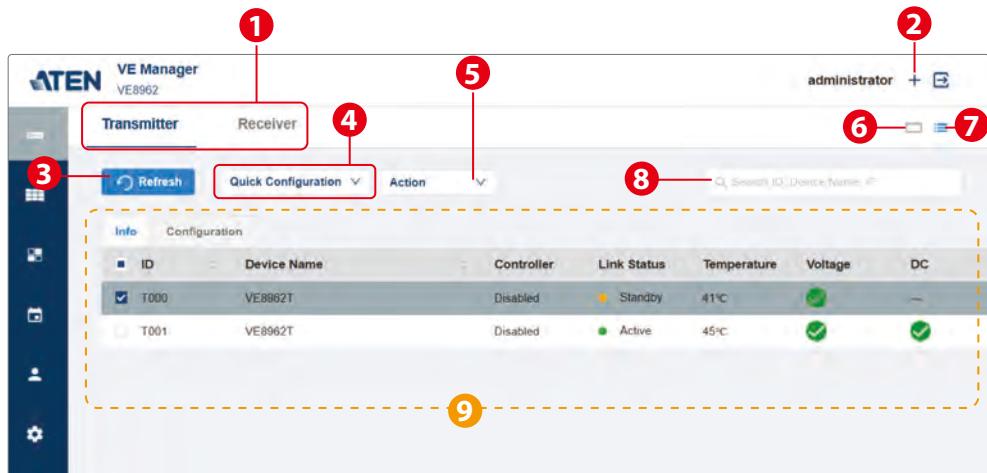
No.	Item	Description
1		Click on the ATEN logo that takes you straight to ATEN's official website.
2	signed-in account	Shows the account you use to log in to VE Manager.
3	add device(s)	Click to open the <b>Add Device</b> popup. This option is available to administrators only.
4	logout	Click to log out and you will redirect to the login page.

No.	Item	Description
5	side menu	<p>Click to access other pages:</p> <ul style="list-style-type: none"> <li>◆  Device: The <b>Device</b> page provides an overview of all connected transmitters and receivers, allowing you to monitor their status and perform configuration, batch editing, or device management with ease.</li> <li>◆  Room: The <b>Room</b> page allows you to create, manage, and customize virtual rooms, configure video walls, switch transmitters, and control receiver settings for a seamless AV setup.</li> <li>◆  Matrix: The <b>Matrix</b> page allows you to manage and control audio, USB, IR, and RS232 signal routing between transmitters and receivers with options for patching, muting, and synchronization.</li> <li>◆  Schedule: The <b>Schedule</b> page allows you to create, view, and manage scheduled tasks in either calendar or list view, with options for time ranges, repeats, and multiple profiles.</li> <li>◆  User: The <b>User</b> page allows administrators to create, edit, and manage user accounts with different access levels for system functions.</li> <li>◆  Maintenance: The <b>Maintenance</b> page provides system maintenance settings, including date and time configuration, panel lock preferences, CLI access, account lockout policy, firmware updates, and backup/restore options.</li> </ul>

## Device

The **Device** page serves as the central hub for managing all VE8962 devices connected to the system. Administrators can view device information, add new devices, or remove unused entries as needed. Basic configuration options ensure that each device is properly registered and accessible. Certain functions are available only to users with administrator privileges.

The Device page lists your VE8962 units as illustrated below.



No.	Item	Description
1	tab bar	Click to enter the tab page to list your devices by: ◆ <b>Transmitter</b> : only the VE8962 transmitters ◆ <b>Receiver</b> : only the VE8962 receivers
2	add device	Click on the add device button <b>+</b> to open Add Device popup to select the VE8962 unit(s) you'd like to add to your VE Manager.
3	search bar	Enter your search terms or keywords to filter the list of matching device(s).
4	quick configuration menu	Select your VE8962 unit(s) from the device list and then choose the setting to be configured for the selected device(s).

No.	Item	Description
5	action menu	Select your VE8962 unit(s) from the device list and then choose the action to be taken on the selected device(s).
6	tile view	Displays transmitters as individual tiles with basic identification and a preview image (if available), allowing a quick visual overview of connected devices.
7	list view	Presents transmitters in a tabular format with detailed information such as status, temperature, and power input, enabling easier data comparison and device management.
8	search bar	Enter the keyword to find the VE8962 unit you need.
9	device list	Shows your VE8962 units with the unit's information on info tab while the configuration tab shows the VE8962 units with the editable information and settings.

## Adding Device

To add more VE8962 units to VE manager for centralized management, do the following:

1. Click on the add device button  to open **Add Device** popup.
2. Select the device(s) to be added by checking the checkbox(es), and then click **Next**.

**Transmitter (999)**

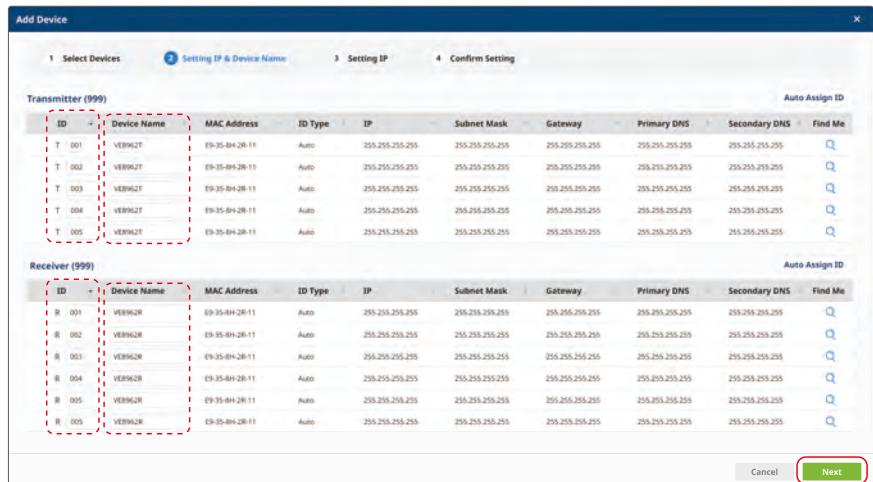
ID	Device Name	MAC Address	ID Type	IP	Subnet Mask	Gateway	Primary DNS	Secondary DNS	Find Me
T001	VER962T	E9-35-BH-28-11	Auto	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	
T002	VER962T	E9-35-BH-28-11	Auto	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	
T003	VER962T	E9-35-BH-28-11	Auto	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	
T004	VER962T	E9-35-BH-28-11	Auto	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	
T005	VER962T	E9-35-BH-28-11	Auto	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	
—	IP CAM Module	E9-35-BH-28-11	—	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	—

**Receiver (999)**

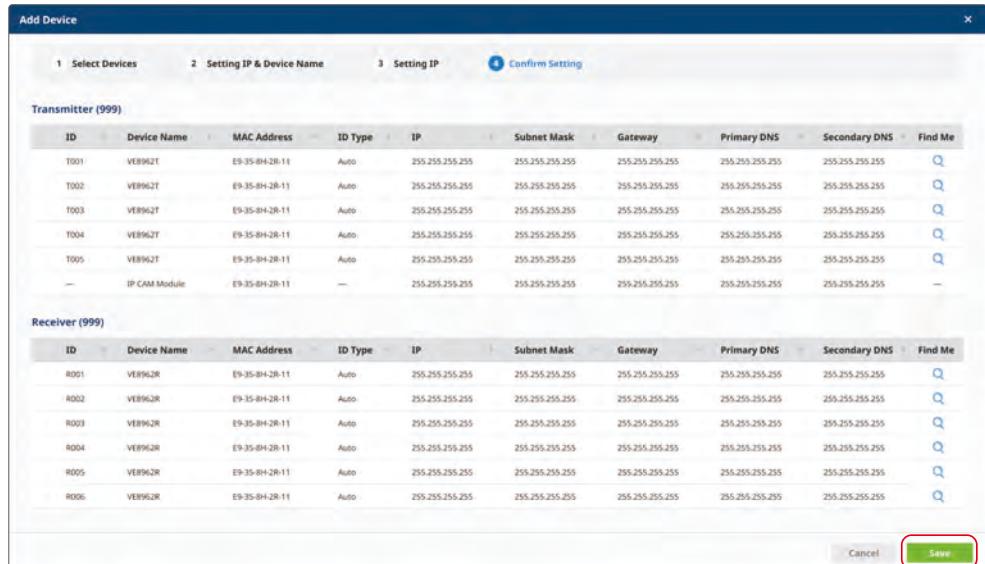
ID	Device Name	MAC Address	ID Type	IP	Subnet Mask	Gateway	Primary DNS	Secondary DNS	Find Me
R001	VER962R	E9-35-BH-28-11	Auto	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	
R002	VER962R	E9-35-BH-28-11	Auto	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	
R003	VER962R	E9-35-BH-28-11	Auto	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	
R004	VER962R	E9-35-BH-28-11	Auto	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	
R005	VER962R	E9-35-BH-28-11	Auto	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	
R006	VER962R	E9-35-BH-28-11	Auto	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	255.255.255.255	

No.	Item	Description
1	checkbox	Selects the transmitter(s) / receiver(s) you'd like to add to VE Manager.
2	select all	Selects all the transmitter(s) / receiver(s).
3	refresh	Updates the available device list.
4	find me	Makes the LED of the selected unit(s) blink to help user find where the unit(s) is located.
5	cancel	Discards the adding device process and close the adding device popup.
6	next	Goes to the next step.

3. Follow the on-screen instruction to configure the device ID, the device name, and device IP address.



4. Confirm your configuration and click on **Save** to add the selected device(s).



5. Now you can find the VE8962 units you just added on the device list.

## Device List

The device list itemizes your VE8962 units for you to check and configure. The **Info** tab offers the device information for you to check while the **Configuration** tab shows their editable settings.

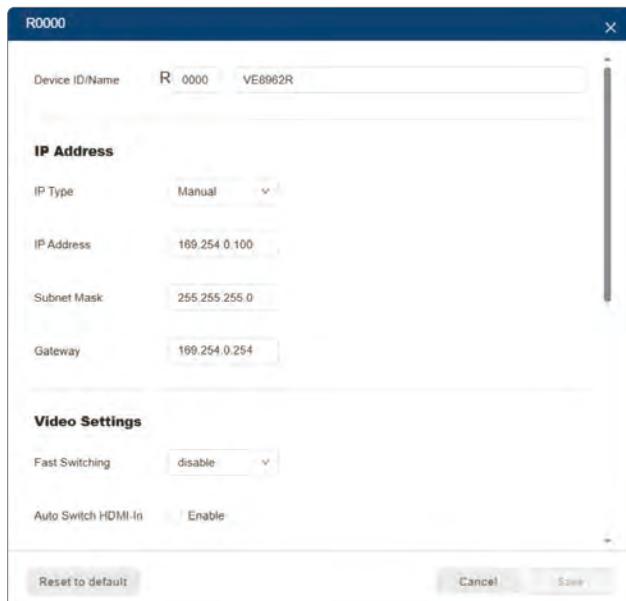
### ♦ Info Tab:

Info Configuration										
ID	Device Name	Connect	Link	Temperature	Voltage	DC	PoE	Fiber	Cat	Action
R0000	VE8962R	T001	● Active	48°C	✓	✓	✓	—	✓	
R0001	VE8962R	T001	● Active	49°C	✓	✓	✓	—	✓	
R0002	VE8962R	T001	● Active	50°C	✓	✓	✓	—	✓	
R0003	VE8962R	T001	● Active	48°C	✓	✓	✓	—	✓	

### ♦ Configuration Tab:

Info Configuration									
ID	Device Name	IP	Fast Switching	USB	IR	RS-232	Baud rate	Action	
R0000	VE8962R	169.254.0.100	disable	Enable	Enable	Bypass	115200		
R0001	VE8962R	169.254.0.101	1920x1080	Enable	Enable	Bypass	115200		
R0002	VE8962R	169.254.0.102	1920x1080	Enable	Enable	Bypass	115200		
R0003	VE8962R	169.254.0.103	1920x1080	Enable	Enable	Bypass	115200		

Double-click on a unit to open the unit's configuration window. Make change of this unit and save to apply the changes.



You can click on the action buttons to directly perform the following actions:

Action	Description
	Edit Device Opens the device's configuration window to make changes.
	Find Me Makes the LED of the selected unit(s) blink to help user find where the unit(s) is located.

## Transmitter Tab Page

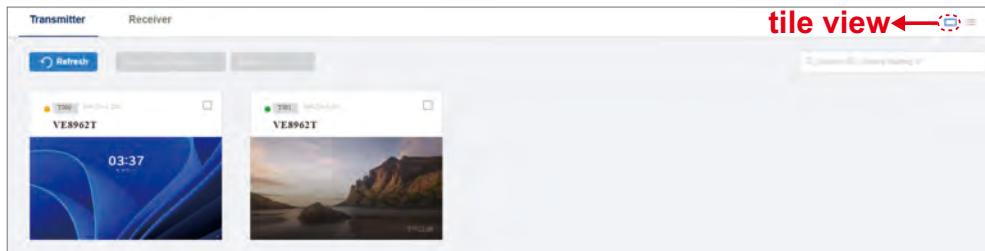
On **Transmitter** tab page, you can switch the device list display between list view and tile view:

- ◆ List View  :



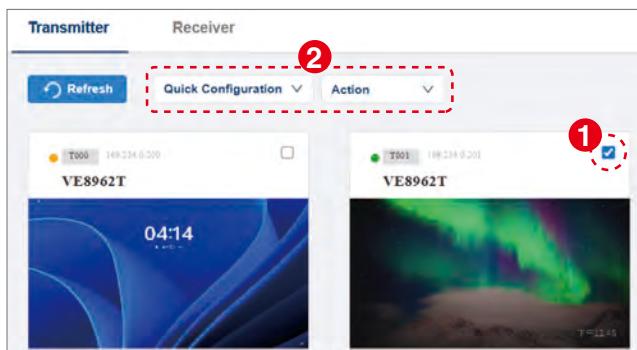
Transmitter		Receiver									
Info		Configuration									
ID	Device Name	Controller	Link Status	Temperature	Voltage	DC	PoE	Fiber	Cat	Action	
T000	VE8962T	Disabled	Standby	41°C		—		—			
T001	VE8962T	Disabled	Active	41°C				—			

- ◆ Tile View  :



In the tile view, you can:

1. Select a unit by checking the checkbox on its tile card.
2. Access the **Quick Configuration** and **Action** menus for further operations.



## Quick Configuration Menu

To quickly get a specific setting done on the VE8962 unit(s), do the following:

1. Select one or more units by checking the checkbox(es) from the device list.

ID	Device Name	Controller	Link Status	Temperature	Voltage	DC	PoE	Fiber	Cat	Action
<input checked="" type="checkbox"/> T000	VE8962T	Disabled	Standby	45°C		—		—		
<input checked="" type="checkbox"/> T001	VE8962T	Disabled	Active	45°C				—		

2. The **Quick Configuration** menu options are not identical between the Transmitter and Receiver tabs. Each side provides different functions based on the unit type you select.

From **Quick Configuration** drop-down menu, select the setting option you'd like to configure.

## IP Address

Specifies how the unit obtains its IP address. Options on **IP Configuration** drop-down menu are:

ID	VE Model	Current IP	Revised IP	Subnet Mask	Gateway
T000	VE8962T	169.254.0.200	169.254.0.200	255.255.255.0	169.254.0.254
T001	VE8962T	169.254.0.201	169.254.0.201	255.255.0.0	169.254.0.254

- ◆ **DHCP:**  
Select this option to have the IP address automatically assigned by a DHCP server.
- ◆ **Auto IP:**  
Select this option to have the IP address automatically assigned by the VE Manager.
- ◆ **Manual:**  
Select this option to designate an IP address for the device. Manually type the IP Address, Subnet Mask, and Gateway for the device.

## EDID

- ◆ **Remix (default):**  
Sets up the input to an optimum resolution of the connected displays.
- ◆ **ATEN Default:**  
Sets up the input to an optimum configuration based on ATEN's predefined list of EDID.
- ◆ **Manual:**  
Sets up the input to user's configuration.

## **HDCP**

Select whether to enable HDCP for the VE8962T or not.

## **Fast Switching**

Click to define the resolution for fast switching. For best performance, ATEN recommends setting this to match your video source resolution and ensuring the same setting is applied across all VE8962 receivers.

## **Auto Switch HDMI-In**

Select enable or disable the **Auto Switch HDMI-In** function.

When an HDMI source is plugged in, the VE8962R automatically switches to the HDMI input. The input port cannot be changed until the source is disconnected or Auto Switching mode is disabled. If the HDMI source is unplugged, the unit reverts to the previous port.

## **USB**

Enable or disable the reception of signals from connected USB devices

## **IR**

Enable or disable the reception of IR signals.

## **RS-232**

Enable or disable the configuration and control of the VE8962 unit via RS-232 commands when connected to a host computer or other device, such as a control system.

- ◆ Command Mode: Enable
- ◆ Bypass: Disable
- ◆ Telnet to RS-232 router

## **Baud Rate**

Select a suitable baud rate for the unit.

## Action Menu

To take an action on the selected device(s), do the following:

Transmitter		Receiver		
		<input type="button" value="Refresh"/> <input type="button" value="Quick Configuration"/> <input type="button" value="Action"/>		
<input type="button" value="Info"/> <input type="button" value="Configuration"/>		<input type="button" value="Reboot"/> <input type="button" value="Reset to default"/>		
ID	Device Name	Remove device	Connect	Link
R0000	VE8962R		T001	<span style="color: green;">● Active</span>
<input checked="" type="checkbox"/> R0001	VE8962R		T001	<span style="color: green;">● Active</span>
R0002	VE8962R		T001	<span style="color: green;">● Active</span>
R0003	VE8962R		T001	<span style="color: green;">● Active</span>

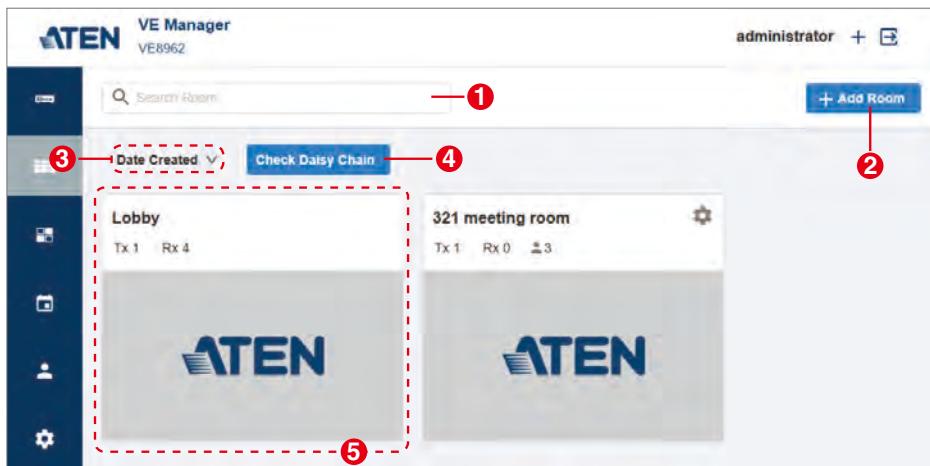
1. Select the VE8962 unit(s) by checking the checkbox(es).
2. Choose the action to be taken from the **Action** drop-down menu.

Action	Description
Reboot	Turn off the selected unit(s) and then immediately start it again.
Reset to Default	Restore the selected unit(s) to the factory default.
Remove Device	Remove the selected unit(s) from VE Manager.

## Room Management

A room in VE Manager is similar to the room mailbox in Microsoft 365. It is virtual and created in VE Manager, and assigned to a physical location, such as a meeting room, to help users to manage, operate, and configure the resources (transmitters, receivers, and monitors) that belong to this room. Room main page displays all the rooms, including the default room **Lobby** and the user-created room. Access the **Room** main page to organize the use of virtual rooms and manage the VE8962 devices.

**Note:** The default room **Lobby** cannot be deleted and renamed.

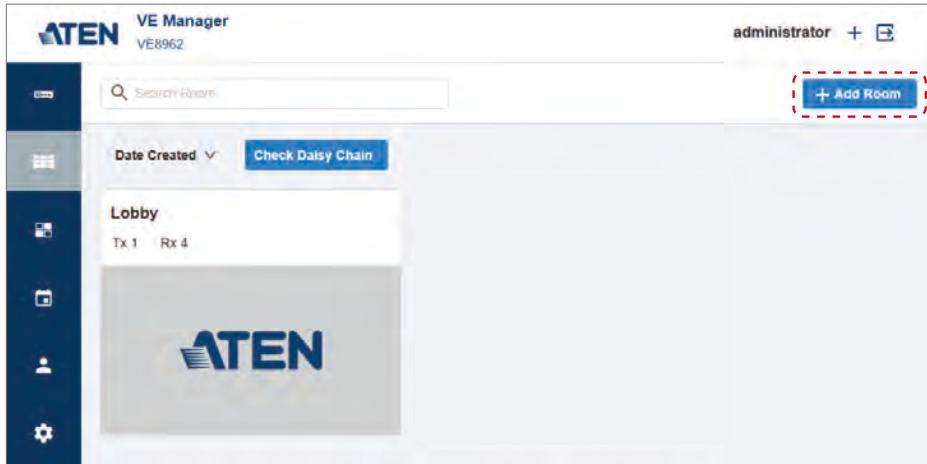


No.	Item	Description
1	search bar	Enter the keyword of the room you'd like to find to quickly display the room cards that fit the keyword.
2	add room	Click the add room button to create a new room.
3	sorting dropdown menu	Select the sort order to display your rooms: ♦ <b>Created</b> : Sorting the rooms by their created time. ♦ <b>A to Z</b> : Sorting the rooms in A-Z order.
4	check daisy chain	
5	room card	Display the basic information of the virtual room. Click on the room card to access the configuration page of this room.

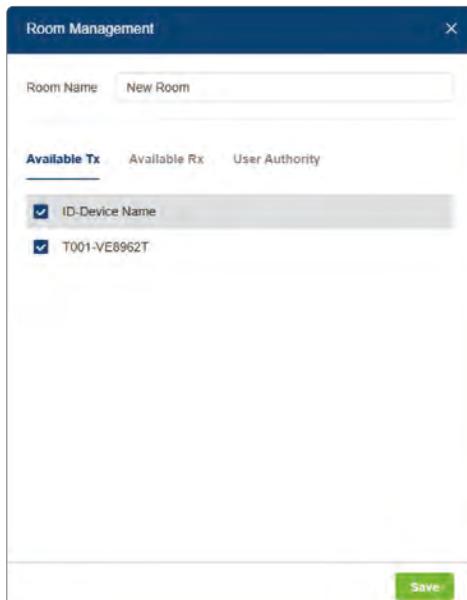
## **Create a New Room**

To create a new room, do the following:

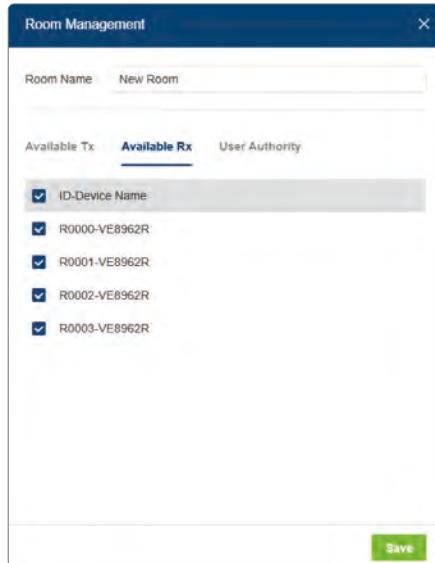
1. Click on **Add Room** button to open **Room Management** popup.



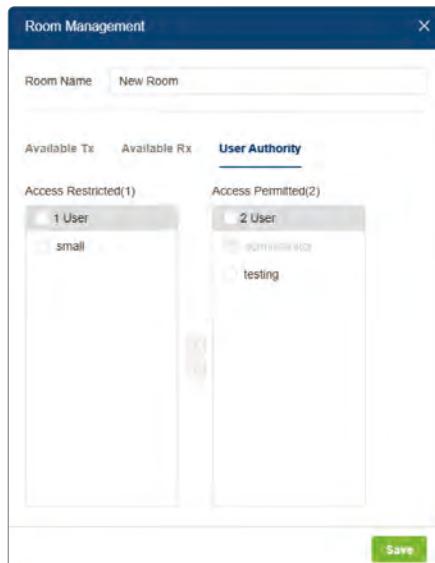
2. In the **Available Tx** tab, specify a name for the room and assign one or more available transmitters to it.



3. In the **Available Rx** tab, assign the available receiver(s) to the room.



4. In the **User Authority** tab, assign users to either the **Access Restricted** list or the **Access Permitted** list.

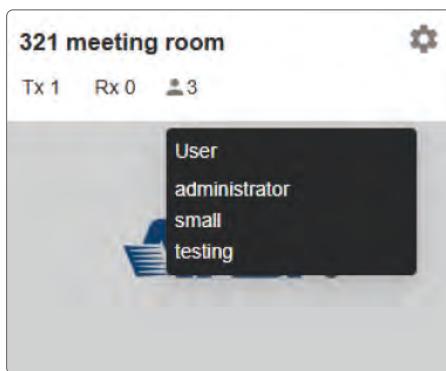


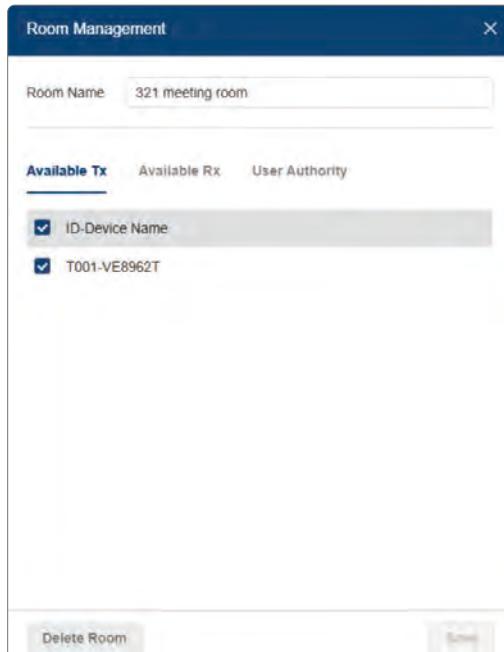
5. Click the save button to complete the new room settings.

The room is successfully created and its room card is displayed on room list:

The screenshot shows the ATEN VE Manager interface. At the top, there's a header with the ATEN logo, 'VE Manager', 'VE8962', and a user 'administrator'. Below the header is a search bar labeled 'Search Room' and a blue button 'Add Room'. On the left, there's a sidebar with icons for room list, device list, user list, and settings. The main area shows a list of rooms. The first room is 'Lobby' with 'Tx 1 Rx 4'. The second room is '321 meeting room' with 'Tx 1 Rx 0 ±3'. A red circle labeled '1' points to the room name '321 meeting room'. A red circle labeled '2' points to the 'Tx 1 Rx 0 ±3' text. A red circle labeled '3' points to the gear icon to the right of the room card.

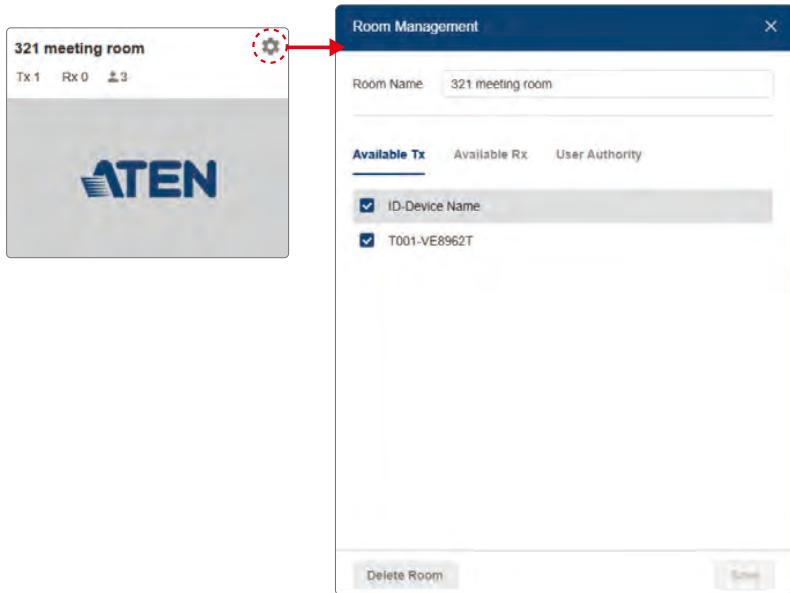
No.	Item	Description
1	room name	The name you specify for this room.
2	device and user list tooltip	Hovering over the Tx count, Rx count, or User icon displays a tooltip listing the corresponding transmitter IDs, receiver IDs, or user accounts assigned to the room.



No.	Item	Description
3	room settings button	<p>Opening the room management popup to edit the room or delete the room.</p>  <p><b>Note:</b> This function is not available to the default room, Lobby.</p>

## Edit / Remove an Existing Room

To edit the room settings or remove an existing room, click on the setting button to open the room management popup.



- ◆ Make changes and save.
- ◆ To delete the room, click on the delete button and confirm your action.

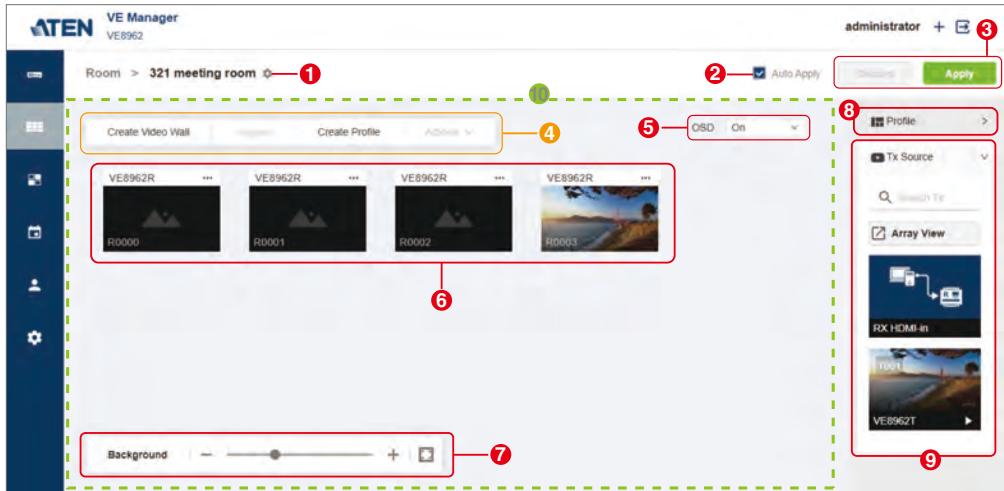
---

**Note:** Once the room is deleted, the device(s) belongs to this room will be dispatched to the default room, Lobby.

---

## Room Configuration

Double-click on the room card to access its configuration page for additional editing..



No.	Item	Description
1	settings	<p>Clicks to open the room management popup for the options:</p> <ul style="list-style-type: none"> <li>♦ Rename the room</li> <li>♦ Add or remove device(s) and manage user access</li> <li>♦ Delete the room</li> </ul> <p><b>Note:</b> This function is not available for the default room, Lobby.</p>
2	auto apply	Enable the function <b>Auto Apply</b> , and the changes you made in this room take effect immediately.
3	apply / discard	If <b>Auto Apply</b> is disabled, you can: <ul style="list-style-type: none"> <li>♦ <b>Apply:</b> Apply the changes you just made.</li> <li>♦ <b>Discard:</b> Cancel your changed settings.</li> </ul>
4	toolbar	Provides a set of buttons and an action menu that allows user to manage the receivers belong to this room. See <i>Toolbar</i> , page 63 for details.

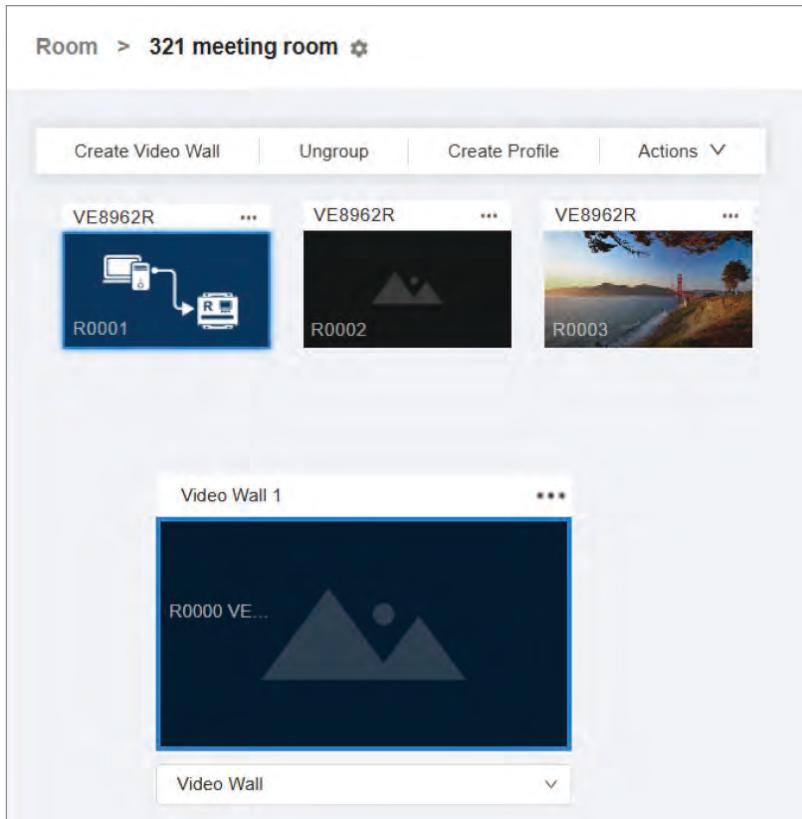
No.	Item	Description
5	OSD setting	<p>Sets whether to present the receiver information, including receiver ID, model name, device IP address, and anomaly warning on the output displays. The options are:</p> <ul style="list-style-type: none"> <li>◆ <b>Off:</b> Disable the function.</li> <li>◆ <b>On:</b> Enable the function.</li> <li>◆ <b>10 Sec.:</b> Display the receiver information for 10 seconds everytime an event occurs.</li> </ul>
6	receiver / video wall card	The receiver(s) / video wall(s) belongs to this room. Drag the card to a preferred position and release it to have it placed.
7	background settings	With the background settings tool, you can: <ul style="list-style-type: none"> <li>◆ Resizes the receiver / video wall cards displayed on the room configuration page.</li> <li>◆ Allows you to upload a background image such as a site layout of this room to help you organize the devices.</li> </ul>
8	profile list	Select an existing profile to apply. Refer to profile management for details.
9	Tx source list	The Tx source list contains the following: <ul style="list-style-type: none"> <li>◆ search bar: Enter the keyword (device ID or device name) to find the transmitter(s) you need.</li> <li>◆ array preview: Click to open a window that displays the available video sources.</li> <li>◆ transmitter list: Only the available transmitter(s) is displayed. Drag the transmitter video source to the receiver / video wall, and then release it to have it output to the correspond display monitor(s).</li> </ul>
11	arrangement area	The place where the receiver / video wall card(s) is placed on.

## Toolbar

Toolbar brings you a set of buttons to perform functions on the receiver(s) / video wall.

For the **Action** menu items, select the target receiver(s) or video wall first. Click on a receiver or video wall card to select it—the card frame will be highlighted in blue.

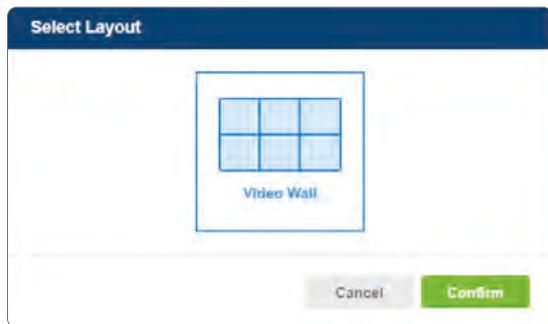
For the **Ungroup** function specifically, make sure to select a video wall card.



To deselect the target card, please click on it again.

## Create Video Wall

Click the **Create Video Wall** button. A confirmation dialog appears; once confirmed, the **Create Video Wall** popup opens.



Follow the steps below to create a video wall:



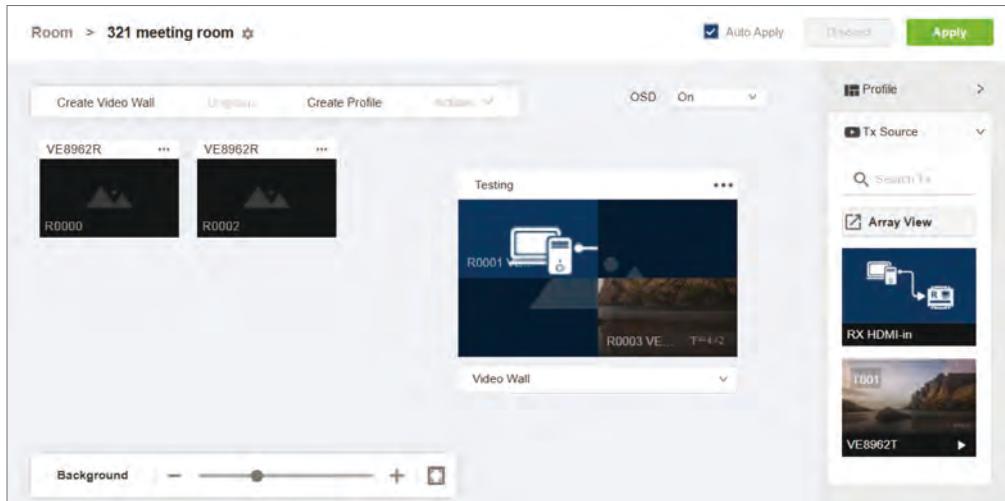
1. Define the name for this video wall.
2. Enter the number of the display monitors belong to this video wall, and select the display orientation.
3. Set the bezel (the borders around the screen) in millimeter.
4. Select an operation mode for your video wall.

Layout	Description
Video Wall	Set up a video wall.
Splitter	Set up a display of identical content on multiple monitors.
Customize	Select to create a custom display layout.

5. Optionally use the zoom slider to change the zoom level of the layout preview, and use the zoom to fit button to automatically resize the layout preview to fit the preview area in this popup window.
6. The layout preview help you visualize the configurations. From the drop-down menu, select the output receiver for each display monitor.
7. Select either **full** or **natural** for the display mode. When using a customized layout, choose **merge** or **separate** to arrange the monitors.

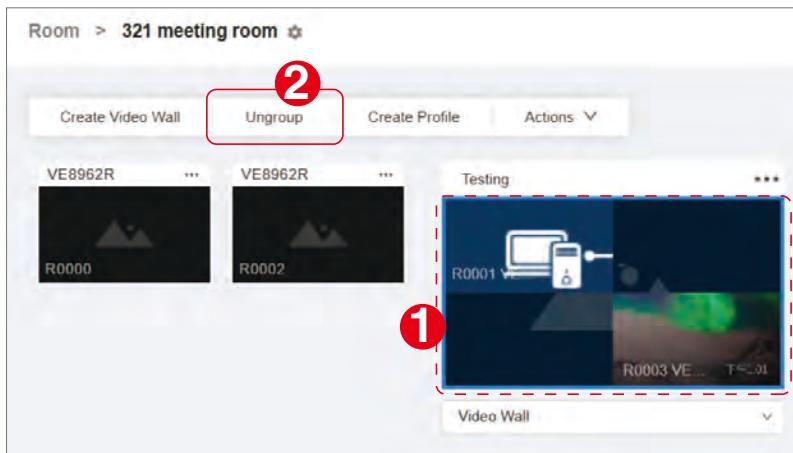
Item	Description
	full Click to display the source video in full extension across the selected screen.
	natural Click to display the source video in its original aspect ratio.
	merge Click to merge selected monitors from the layout preview into a single display.
	separate Click to split previously merged monitors. Select a merged monitor from the layout preview and click this button.

- Click on **Save** button to create a video wall while **Cancel** to discard the settings.
- The successfully-created video wall is now on the room arrangement area. You can edit its displayed content by dragging the video from Tx source list and media list. See *Assigning Sources*, page 73 for details.



## Ungroup

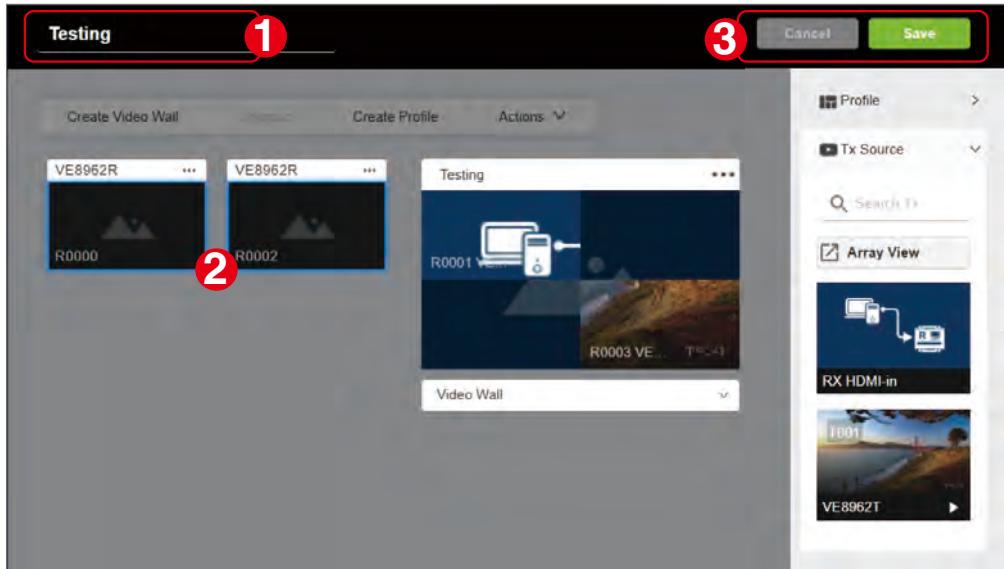
To ungroup a video wall, do the following:



1. Select an existing video wall you'd like to ungroup.
2. Click the **Ungroup** button on the toolbar.
3. The video is now decomposed into receivers.

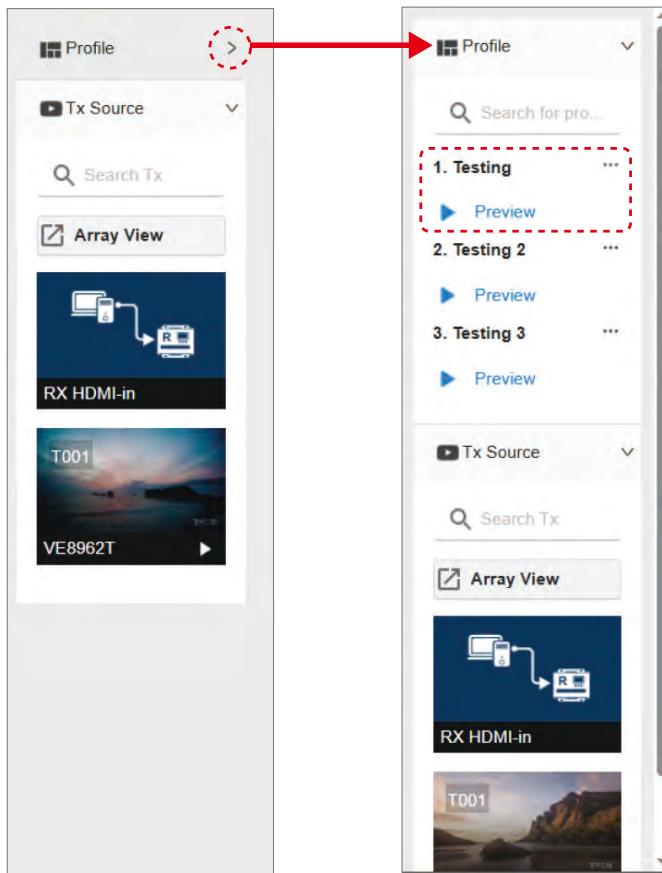
### Create Profile

Click **Create Profile** button to save your current configuring video receiver / video wall settings to be a profile.



1. Enter a name for the profile to be created.
2. Click to select the receiver(s) / video wall(s).
3. Click **Save** to create a new profile while **Cancel** to discard changes.

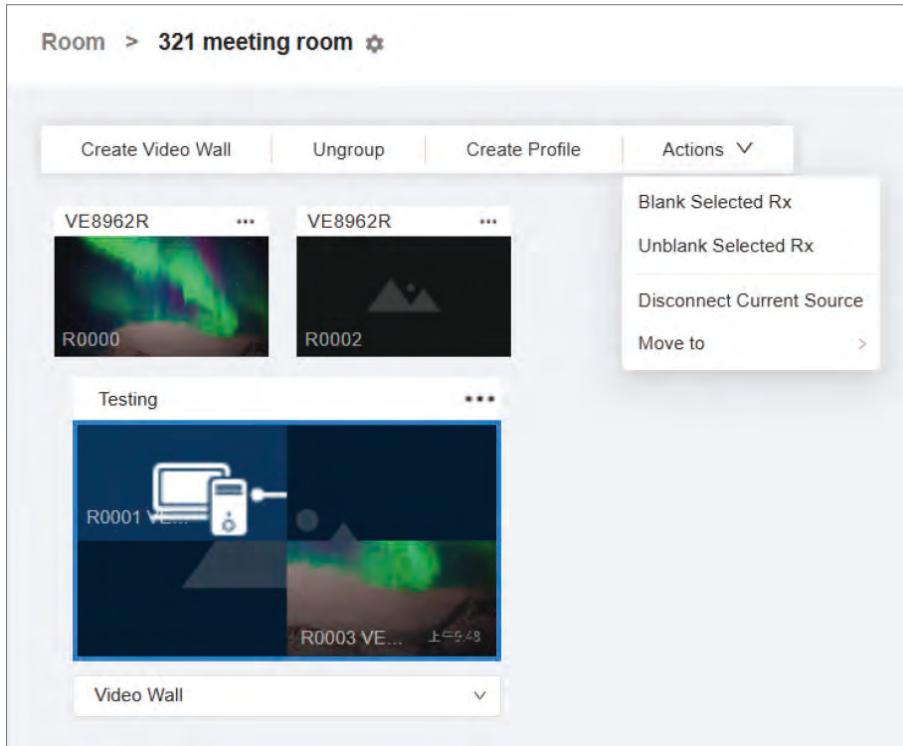
Click to unfold the profile list and you'll find the newly-created profile is listed.



For more profile operations, please refer to *Profile Management*, page 77.

## Actions

Actions menu is available once the existing receiver / video wall card(s) is selected. The options are:

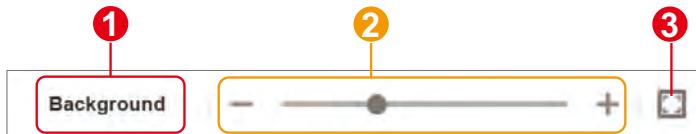


The screenshot shows the 'Room > 321 meeting room' interface. At the top, there are buttons for 'Create Video Wall', 'Ungroup', 'Create Profile', and 'Actions'. The 'Actions' button is highlighted. Below these are two receiver cards: 'VE8962R' (R0000) and 'VE8962R' (R0002). A context menu is open for the first receiver, listing: 'Blank Selected Rx', 'Unblank Selected Rx', 'Disconnect Current Source', and 'Move to >'. Below the cards is a 'Testing' section showing a video wall configuration with four cards: 'R0001 VE...', 'R0002 VE...', 'R0003 VE...', and 'R0004 VE...'. At the bottom is a 'Video Wall' dropdown menu.

Item	Description
blank selected Rx	Disables the monitor display content of the selected target receiver, and the monitor screen of the target(s) goes blank.
unblank selected Rx	Enable the blanked monitor display of the selected target receiver.
disconnect current source	Disconnect the source video from the transmitter.
move to	Move the target(s) to other room. The available rooms is on the next option menu.

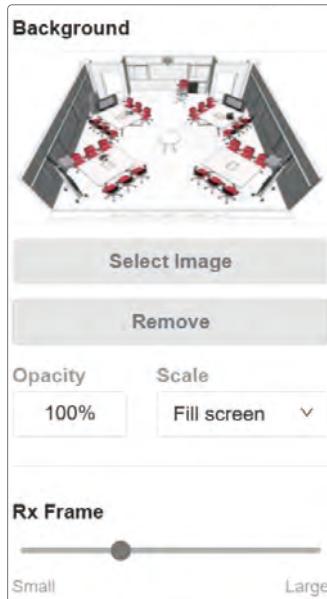
## Background Settings

The background settings tool offers the following functions:



### 1. background image settings

Click to open the setting menu to set a background image for this room, such as a site layout, to help locate the device(s).



Item	Description
thumbnail preview	Shows the small image representation of the current / selected background image.
select image	Selects an image to be uploaded as the room background image. Upload a .jpg or .png file up to 5MB; resolution is not restricted.
remove	Deletes the background image.
opacity	Defines the background image opacity-level by percentage.

Item	Description
scale	<p>Choose a fit for the background image.</p> <ul style="list-style-type: none"> <li>♦ <b>Fill Screen:</b> Makes the background image fit the entire room arrangement area.</li> <li>♦ <b>Fit Height:</b> Fits the background image to the height of the room arrangement area.</li> <li>♦ <b>Fit Width:</b> Fits the background image to the width of the room arrangement area.</li> </ul>
Rx frame slider	Drag the slider to change how the receiver and video wall cards are scaled on screen.

## 2. zoom slider

Use the zoom slider to change the zoom level of the room arrangement area as well as the receiver / video wall card(s) on it.

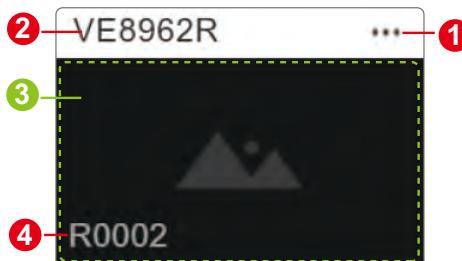
## 3. zoom to fit

Use the zoom to fit button to automatically resize the arrangement area and the card(s) on it.

## Receiver / Video Wall Management

The receiver(s) and the video wall(s) are presented as cards on the room arrangement area as the figures show below:

### ♦ Receiver



No.	Item	Description
1	more button	Click on the more button to open the configuration menu for more operations. See <i>Configuration Menu</i> , page 73 for details.
2	model name	Displays the model name.
3	preview	Represents the video content on the receiver.

No.	Item	Description
4	connected Rx ID	Shows the receiver ID.

◆ **Video Wall**

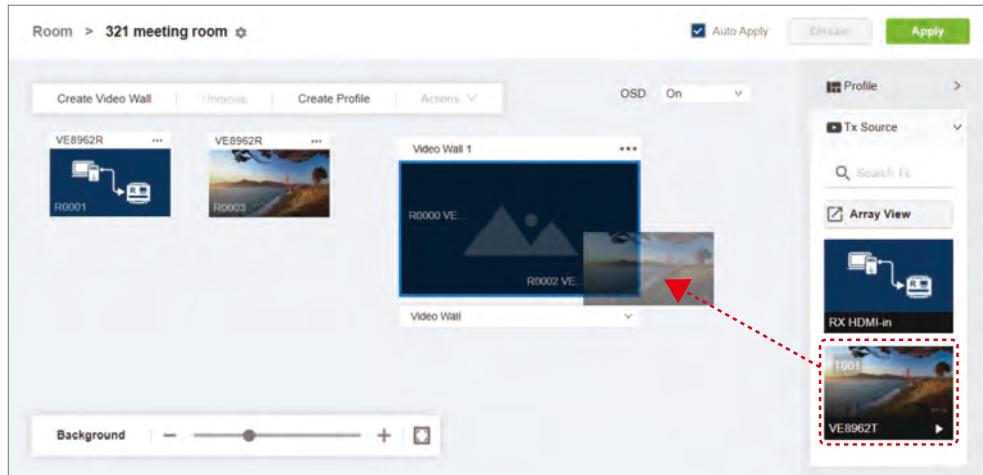


No.	Item	Description
1	more button	Click on the more button to open the configuration menu for more operations. See <i>Configuration Menu</i> , page 73 for details.
2	video wall name	Displays the name you set when creating the video wall.
3	preview	Represents the video content on the video wall.
4	connected Rx ID	Shows the receiver ID(s).
5	operation mode	Select an operation mode for your video wall. <ul style="list-style-type: none"> <li>◆ <b>Video Wall:</b> Select this option to set up a video wall.</li> <li>◆ <b>Splitter:</b> Select this option to set up a display of identical content on multiple monitors.</li> <li>◆ <b>Customize:</b> Select to apply a custom display layout.</li> </ul>

## Assigning Sources

Follow the steps below to assign input sources:

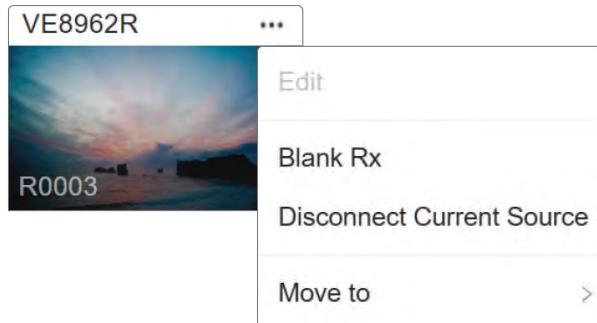
1. Identify the source to be assigned on the transmitter source list and the target receiver / video wall.
2. Select and drag the source video to the preview area of the target receiver / video wall.



## Configuration Menu

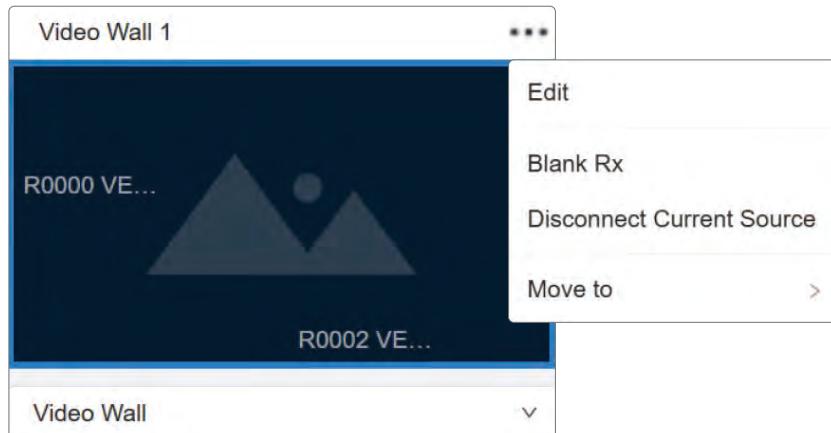
Click on the more button of the receiver / video wall card(s) to open the configuration menu for the following operations:

- ◆ Receiver



Item	Description
Edit	Open the edit popup and make changes of this receiver.
Blank Rx / Unblank Rx	Enable or disable the blanked monitor display of this receiver.
Disconnect Source	Disconnect the source video from the transmitter.
Move to	Move this receiver to other room. The available rooms is on the next option menu.

♦ **Video Wall**



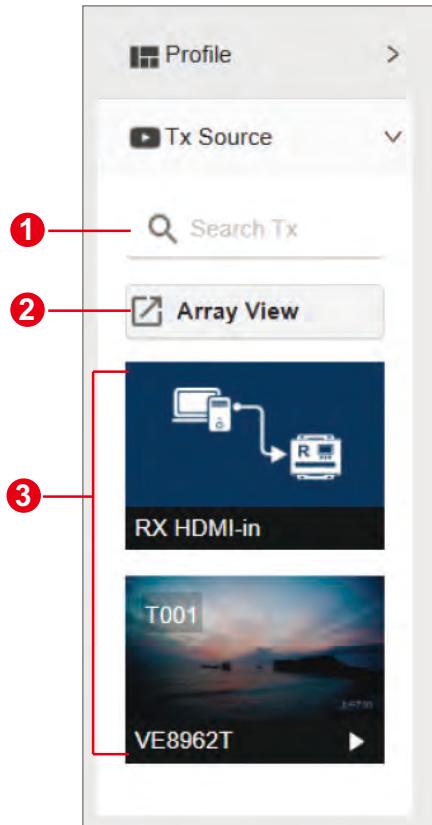
Item	Description
Edit	Open the Create Video Wall popup to make changes. See <i>Create Video Wall</i> , page 64 for details.
Blank Video Wall/ Unblank Video Wall	Enable or disable the blanked monitor display of this video wall.
Disconnect Source	Disconnect the source video from the transmitter.
Move to	Move this video wall to other room. The available rooms is on the next option menu.

## Source Panel Control

The source panel is located on the right side of a room. It contains the Profile list and the Tx source list. This section explains how to use the Tx source list. For details on the Profile list, refer to *Profile Management*, page 77.

### Tx Source List

The Tx source list consists of three parts: the search bar, the transmitter list, and the array preview.

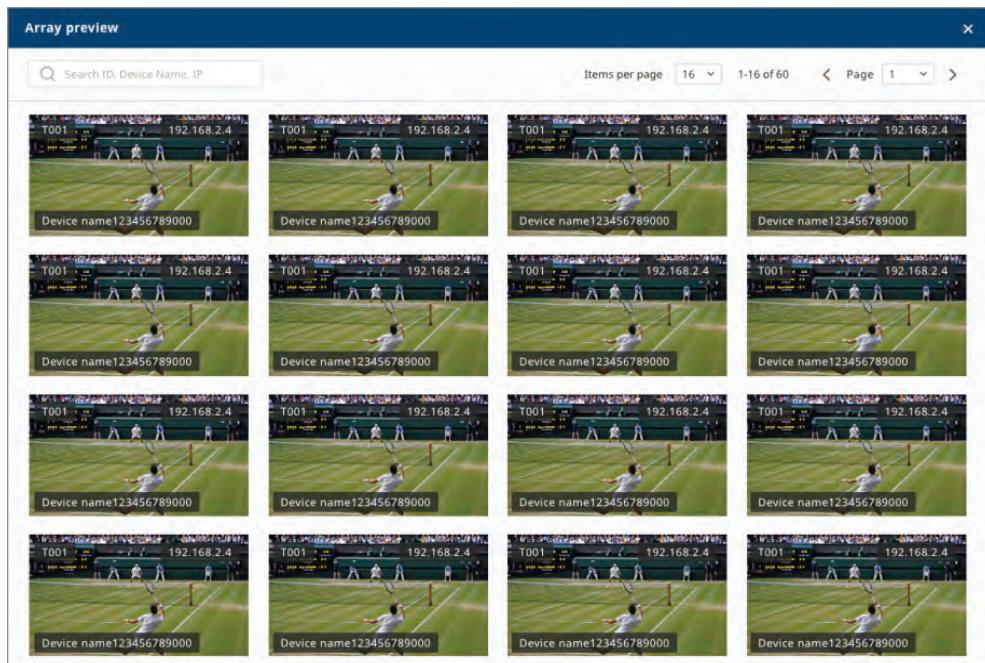


No.	Item	Description
1	Search bar	Enter the device ID or device name to search for a specific transmitter.

No.	Item	Description
2	Array View	Opens a window to view all granted transmitters for this room.
3	transmitter list	Displays the granted transmitters for this room.

The video thumbnail preview in the transmitter list and Array View window displays a live video preview. Assign the video source by dragging the transmitter's video preview in transmitter list to the target receiver or video wall. Release to complete the assignment.

The **Array View** window displays all videos from the granted transmitters, providing an overview of all video sources along with the transmitter's ID, device name, and IP address.



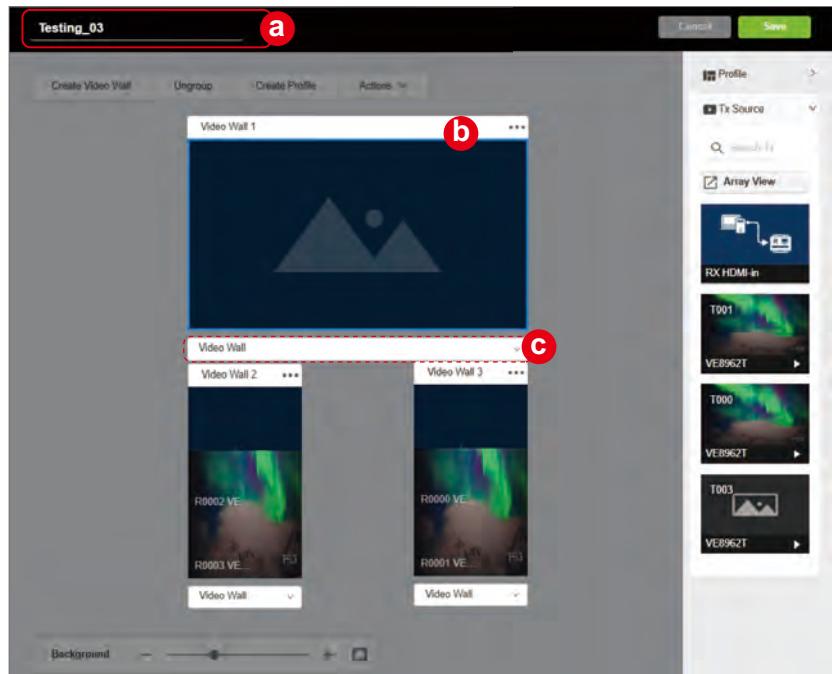
## Profile Management

After configuring video receiver / video wall settings, if you find that you would like to keep the current settings, you can save it as a profile. You can create different profiles and apply them manually, or you can set up profile schedules for switching video display at different times of a day, week or month.

### Creating a Profile

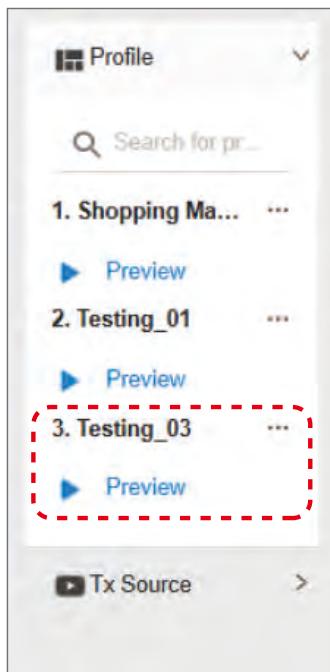
Follow the steps below to create a profile.

1. In the room's arrangement area, click the **Create Profile** button on toolbar. The profile configuration screen will appear.
2. On the profile configuration screen:



- a) Enter a name for the profile.
- b) Click to choose the receiver(s) / video wall(s) you wish to be in this profile.
- c) (optional) Change the operation mode if needed.

3. Click **Save** to complete the configuration.
4. The profile you just created will now appear in the profile list.



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**Note:**

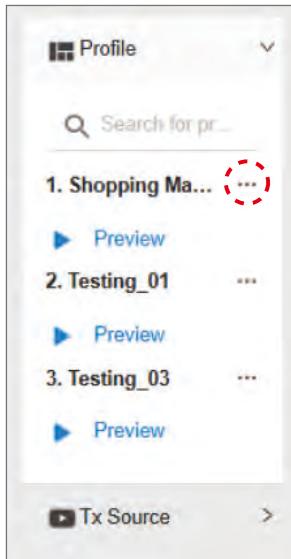
- ◆ A profile becomes invalid if its receiver(s) or video wall(s) are lost or deleted.
- ◆ A failed attempt to create a new profile may be due to the receiver / video wall not having a video source from transmitters or HDMI local input.

---

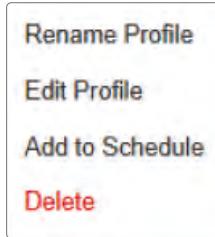
## Editing or Deleting a Profile

To edit or delete an existing profile, do the following:

1. From the profile list, click the more button to open the option menu.



2. Select the function you'd like to proceed with.

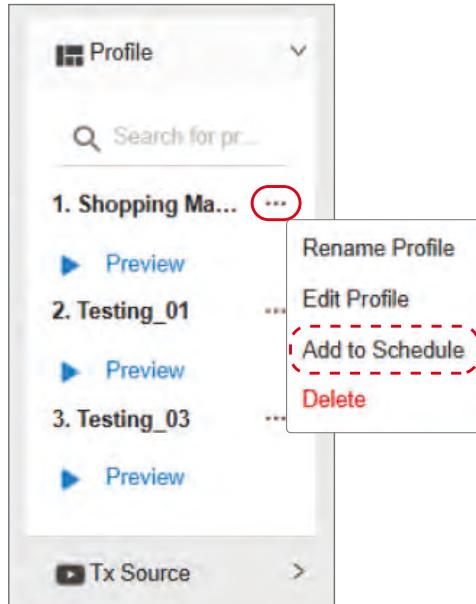


Item	Description
Rename Profile	Edit the profile name.
Edit Profile	Open the profile configuration screen to make changes.
Add to Schedule	Set the schedule for when the profile will be played. See <i>Setting Up Profile Schedules</i> , page 80.
Delete	Remove this profile. The system will ask if you would like to delete this profile. Click Delete to proceed or click Cancel to cancel.

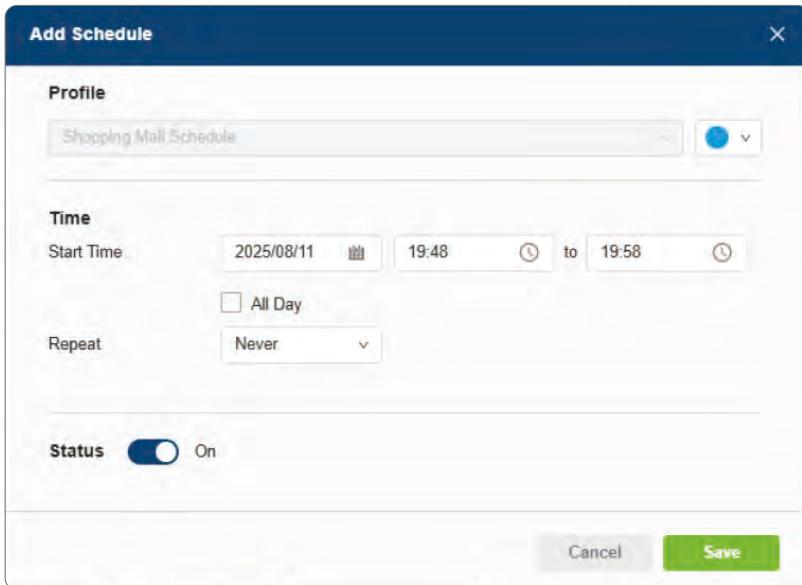
## **Setting Up Profile Schedules**

Follow the steps below to set up profile schedules:

1. In the profile list, locate the desired profile and click its more button to open the options menu.
2. Select **Add to Schedule** to open the **Add Schedule** popup.



3. Configure the schedule as needed:



- ◆ **Profile:**  
Select the profile to be added to the schedule..
- ◆ **Color Code:**  
Assign a color label to this task. Use different colors to distinguish tasks.
- ◆ **Start Time / End Time:**  
Define the start and end times for the task.
- ◆ **Repeat:**  
Select a repeat cycle for the schedule.
- ◆ **Status:**  
Enable or disable the scheduled task.

**Note:** For detailed settings, please refer to *Schedule*, page 87.

4. Click **Save** to save the schedule.

# Matrix

The **Matrix** page provides a centralized interface for managing and controlling signal routing between transmitters and receivers. It supports audio, USB, IR, and RS-232 signal types, allowing flexible configuration to meet diverse application needs. From this page, you can patch signals between specific devices, mute selected channels, or synchronize settings across multiple endpoints. The intuitive layout makes it easy to monitor active routes, adjust configurations in real time, and ensure smooth, coordinated operation of all connected devices.

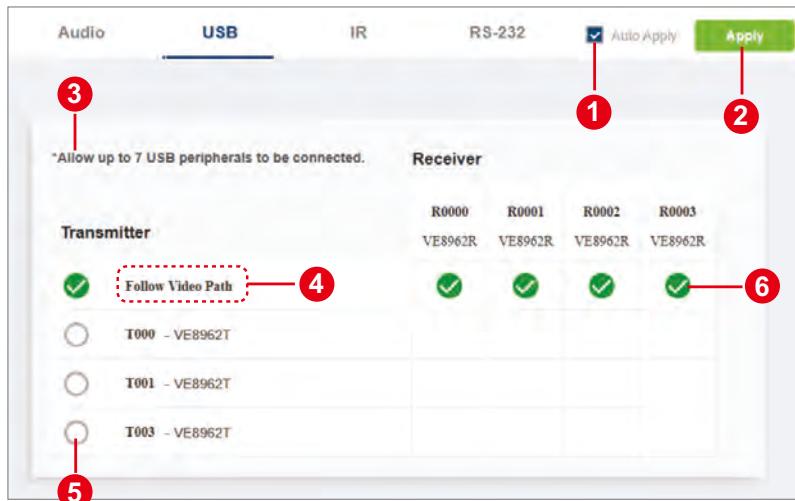
## Audio

The **Audio** tab page offers the following functions:

The screenshot shows the VE8962 User Manual interface with the **Audio** tab selected. The page includes tabs for **USB**, **IR**, and **RS-232**. On the right, there is a **Auto Apply** checkbox (3) and an **Apply** button (4). On the left, there are **Mute All** and **Unmute All** buttons (1 and 2). The main area is divided into **Transmitter** and **Receiver** sections. The **Transmitter** section lists three entries: T000 - VE8962T, T001 - VE8962T, and T003 - VE8962T. The **Receiver** section lists four entries: R0000 (VE8962R), R0001 (VE8962R), R0002 (VE8962R), and R0003 (VE8962R). Each entry has a checkbox and a speaker icon. A red dashed box surrounds the **Follow Video Path** checkbox (5) in the T000 row. Callouts numbered 6 through 10 point to various UI elements: 6 points to the T000 row, 7 points to the T001 row, 8 points to the T003 row, 9 points to the R0003 row, and 10 points to the R0003 checkbox.

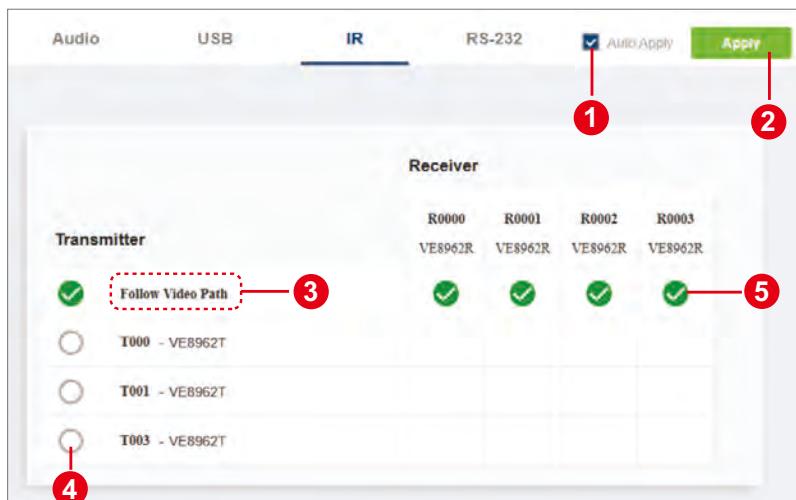
No.	Item	Description
1	Mute All	Mute all the transmitters and receivers.
2	Unmute All	Unmute all the muted VE8962 units.
3	Auto Apply	Apply the changes automatically.
4	Apply	Click <b>Apply</b> to save your changes.
5	Follow Video Path	Set the audio follow the same routing as the video signal.
6	select all	Click to select all the receivers to obtain the audio signal from this transmitter.
7	HDMI	Select the audio source between <b>HDMI</b> and <b>Stereo</b> . The default setting is HDMI.
8	Stereo	
9	mute / unmute	Click on the button to mute or unmute the unit.
10	crosspoint	On the graphical crossbar, simply click a crosspoint to enable the signal routing path. To disable it, click the selected crosspoint again to unmark it.

## USB



No.	Item	Description
1	Auto Apply	Apply the changes automatically.
2	Apply	Click <b>Apply</b> to save your changes.
3	note	Supports up to seven connected USB peripherals.
4	Follow Video Path	<p>Select this option to receive USB signals from the transmitter (Connected Tx) where the receiver obtains its video source.</p> <p><b>Note:</b> When <b>Boundless Switch</b> is enabled, the entire Rx column becomes disabled and is automatically set to <b>Follow Video Path</b>, ensuring USB patching follows the video signal.</p>
5	select all	Click to select all the receivers to obtain the USB signal from this transmitter.
6	crosspoint	On the graphical crossbar, simply click a crosspoint to enable the signal routing path. To disable it, click the selected crosspoint again to unmark it.

## IR / RS-232

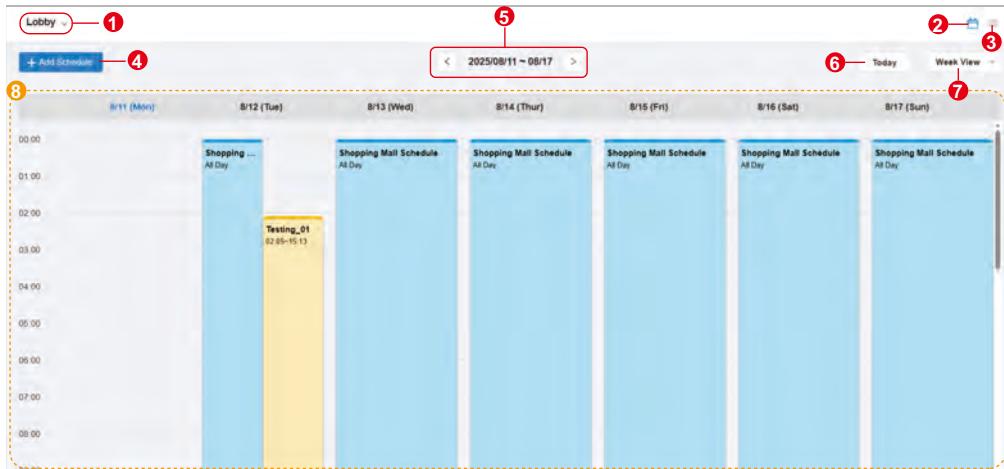


No.	Item	Description
1	Auto Apply	Apply the changes automatically.

No.	Item	Description
2	Apply	Click <b>Apply</b> to save your changes.
3	Follow Video Path	Select this option to receive IR / RS-232 signals from the connected transmitter that supplies the receiver's video source.
4	select all	Click to select all the receivers to obtain the IR / RS-232 signal from this transmitter.
5	crosspoint	On the graphical crossbar, simply click a crosspoint to enable the signal routing path. To disable it, click the selected crosspoint again to unmark it.

## Schedule

Schedule helps you to set up tasks that perform automatically on specific days and times.



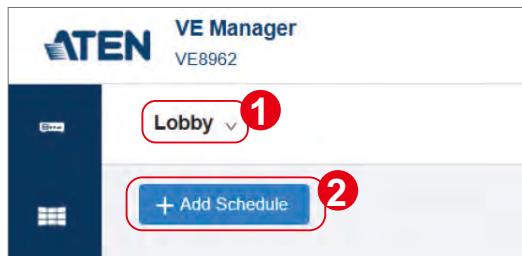
No.	Item	Description
1	room selection	Click to expand the drop-down menu that lists all the room options. Select the room you'd like to manage to switch to its schedule.
2	timeline view	Visualizes the timing and duration of the tasks.
3	list view	Displays the scheduled tasks as a list.
4	add schedule	Click to create a new scheduled task to be performed in this room.
5	date picker	Use the next button  or the previous button  to select the date / the range of dates: <ul style="list-style-type: none"> <li>◆ in day view: Select the date to display the task(s) to be performed on the day.</li> <li>◆ in week view: Select the range of dates by week to display the task(s) to be performed within the week.</li> </ul>
6	go to today button	Click on the today button to go back to today or the current week.

No.	Item	Description
7	schedule view selection	Choose between week view and day view to display the task calendar / task list.
8	task calendar / task list	Shows the scheduled task(s) to be performed in this room during the selected week.

## Create a Scheduled Task

To create a scheduled task, do the following:

1. Open a room schedule from the room selection menu on schedule page.
2. Click on the **+ Add Schedule** button to open the add schedule window.



3. Define the following settings:

**Add Schedule**

**Profile**  
Testing\_01

**Time**  
Start Time: 2025/08/11 00:00 to 23:59  
 All Day  
 Repeat: Daily  
 End Recurring Task:  Never  On 2025/08/11

**Status**  On

**Cancel** **Save**

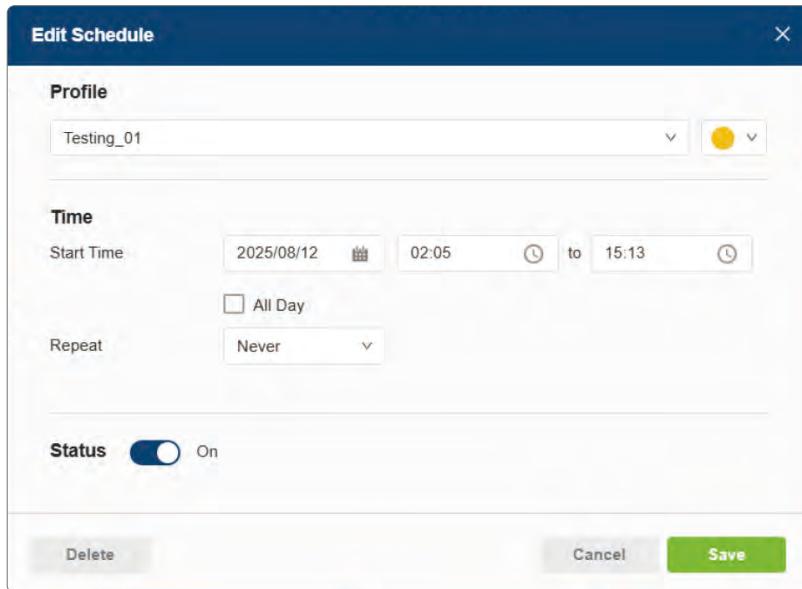
Item	Description																																										
select Profile	Select a profile for this task to play. See Profile Management for how to manage the profiles.																																										
color-code	Assign a color label to this task. Use different colors to tell the tasks apart.																																										
start time / end time	Sets the date and time the task will begin and end.																																										
all day	Check the All Day checkbox to play this task all day long.																																										
repeat	<p>Performs the task repeatedly at the scheduled times. The options to run the recurring task are:</p> <ul style="list-style-type: none"> <li>◆ never: The task is executed only one time.</li> <li>◆ daily: The recurring task is executed everyday.</li> <li>◆ weekly: The recurring task is executed on a weekly basis. By selecting weekly, you need to further specify the days of the week that the task is run.</li> </ul> <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> <span>Repeat</span> <div style="border: 1px solid #ccc; padding: 2px 10px; border-radius: 5px; margin-right: 10px;"> <span>Weekly</span> </div> </div> <table border="1" style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td style="width: 14.28%;">Mon.</td> <td style="width: 14.28%;">Tue.</td> <td style="width: 14.28%;">Wed.</td> <td style="width: 14.28%;">Thur.</td> <td style="width: 14.28%;">Fri.</td> <td style="width: 14.28%;">Sat.</td> <td style="width: 14.28%;">Sun.</td> </tr> </table> </div> <p>◆ monthly: The recurring task is executed on a monthly basis. Set the particular dates this task recurs.</p> <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> <span>Repeat</span> <div style="border: 1px solid #ccc; padding: 2px 10px; border-radius: 5px; margin-right: 10px;"> <span>Monthly</span> </div> </div> <table border="1" style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td style="width: 14.28%;">1</td> <td style="width: 14.28%;">2</td> <td style="width: 14.28%;">3</td> <td style="width: 14.28%;">4</td> <td style="width: 14.28%;">5</td> <td style="width: 14.28%;">6</td> <td style="width: 14.28%;">7</td> </tr> <tr> <td>8</td> <td>9</td> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> </tr> <tr> <td>15</td> <td>16</td> <td>17</td> <td>18</td> <td>19</td> <td>20</td> <td>21</td> </tr> <tr> <td>22</td> <td>23</td> <td>24</td> <td>25</td> <td>26</td> <td>27</td> <td>28</td> </tr> <tr> <td>29</td> <td>30</td> <td>31</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> </div>	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.	Sun.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
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22	23	24	25	26	27	28																																					
29	30	31																																									

Item	Description
end repeat	Sets the due date for this task. This setting is only available when <b>Repeat</b> is set as daily or weekly or monthly. <ul style="list-style-type: none"> <li>◆ Never: Enable this option to continue repeating indefinitely.</li> <li>◆ Invalid date: Sets the date that the task will no longer run.</li> </ul>
status	Click on the switch to turn on or off the task.

4. Click the save button to finalize creating the task. Now you can find the task you just created is on the task list.

## **Scheduled Tasks Management**

To edit an existing task, find the task you'd like to edit from the task list, and double-click on the task to open the **Edit Schedule** popup.



Through **Edit Schedule** popup, you may:

- ◆ Make changes of this task and save it.
- ◆ Remove this task from the task list by clicking **Delete** button.
- ◆ Turn on or off the status switch to make this task active or inactive.

## User

---

The **User** page provides administrators with the tools to create, edit, and manage accounts, assigning each with specific access levels to system functions. Two user roles are available: **Administrator**, with full control and editing rights across all rooms and pages, and **User**, with limited access to only the rooms assigned by an administrator. This structure ensures secure and efficient management of system access while accommodating different operational needs.

The **User** page lets the account with administrator role do the following:

- ◆ Check, add, edit, or delete users.
- ◆ Change the account password for accessing the VE Manager.
- ◆ Assign the user role to the user account.

### **Types of User Roles**

VE Manager offers two user roles with different levels of authority. When creating an account, an administrator can assign the role as either

**Administrator** or **User**.

Refer to the tables below to distinguish between account authorization levels.

User Role	Access Permissions					
	Device	Room	Matrix	Schedule	User	Mainte-nance
User		✓		✓		
Administrator	✓	✓	✓	✓	✓	✓

---

**Note:** The account with the User role has limited access to the room(s) assigned by an administrator.

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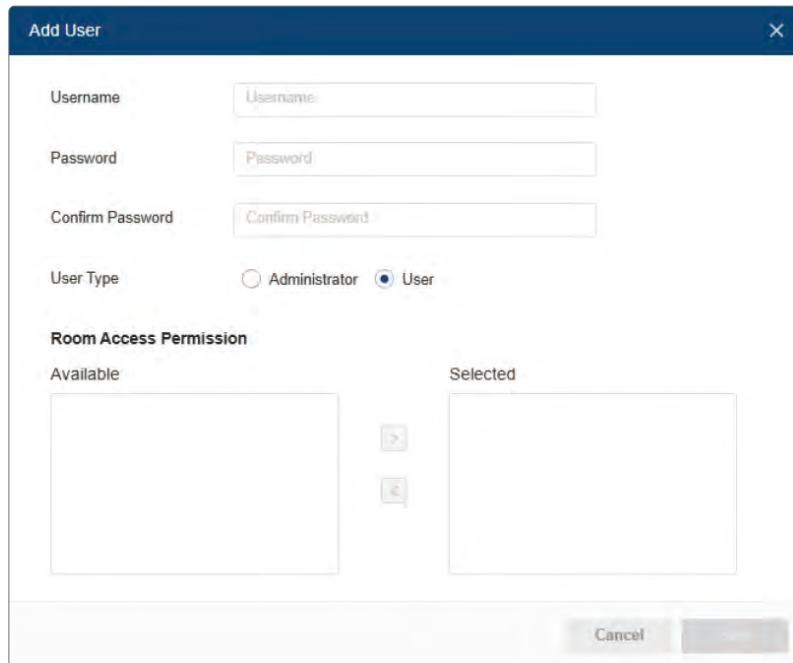
## User Account Management

The **User** page is accessible only to administrator accounts. To create, edit, or remove user accounts, you must log in to VE Manager with an administrator account.

### Creating a New User Account

To create a new user account, follow these steps:

1. On the **User** page, click the **Add User** button to open the **User Management** popup.



2. Define the username and password, and specify the user type.
3. Configure the account's access permissions for the room(s).

---

**Note:** **Administrators** have access to all rooms, while **Users** have limited access to the assigned rooms.

---

4. Click **Save** to create the new account. Click **Cancel** to abort the creation and close the popup.

## Deleting an Existing User Account

To remove an existing account(s):



1. From the user account list, select the account(s) you'd like to delete.
2. Click the **Remove** button to delete the selected account(s).

---

**Note:** An administrator account cannot delete its own entry from the user list. For this reason, the checkbox for the logged-in administrator's account is hidden in the list.

---

## Editing an Existing User Account

To edit an existing account:

1. From the user account list, double-click on an account to open the account's **User Management** popup.
2. Make the necessary changes and save.

## Maintenance

The **Maintenance** page allows you to specify device date and time, configure settings of connected VE8962 devices, upgrade device firmware, and back up the VE Manager's settings.

### General Settings

The **General** tab contains the date, time, panel lock settings, and CLI settings.

#### Maintenance

General    Firmware Update    Backup & Restore    Discard    Save

##### Date / Time

Date & Time

Sync with Computer Time

##### Preference

Disconnected View  ATEN Logo  Monitor's No Signal Screen  Black Screen

Panel Lock  Never  Auto Lock

##### CLI

Login  Off  On

Timeout  5min  10min  15min  20min

CLI Protocol  SSH only  SSH + Telnet

##### Account Lockout Policy

Account Lockout  Enable  Disable

Maximum Invalid Login Attempts

Make sure to save your changes by clicking **Apply** button.

## Date & Time

Settings	Description
Date & Time	<p>Set the date and time from the date picker and time picker.</p> <p><b>Note:</b> The function is only available when Manual mode is enabled.</p>
Sync with Computer Time	If you wish to synchronize the time with the computer's time, click the button to process the settings.

## Preference

Settings	Description
Disconnection View	Set the screen to be displayed when input video source is disconnected.
Panel Lock	Select <b>Auto Lock</b> to lock the panel control of all the VE8962 units.

## CLI

Settings	Description
Login	Select <b>On</b> to enable remotely logging in to VE8962 from a computer using RS-232 / Telnet interface.
Timeout	Specify the idle time that causes the CLI session closed.
CLI Protocol	<p>Select the protocol(s) for Command Line Interface access:</p> <ul style="list-style-type: none"> <li>◆ <b>SSH only:</b> Restricts CLI access to the SSH protocol.</li> <li>◆ <b>SSH + Telnet:</b> Allows CLI access through both SSH and Telnet protocols.</li> </ul>

## Account Lockout Policy

Settings	Description
Account Lockout	Enables or disables the feature that locks a user account after a specified number of failed sign-in attempts.
Maximum Invalid Login Attempts	Specifies the maximum number of failed sign-in attempts allowed before the account is locked.
Account Lockout Duration (mins)	Defines the number of minutes a locked account remains inaccessible before it is automatically unlocked.

## Set as Primary Device & Sync to All Other Devices

Click the button Implement to set the currently logged-in device as the primary controller and synchronize its settings to all other devices.

## SSL Certificate

Use this section to upload an SSL certificate and its corresponding private key for secure HTTPS communication.

## System Log

This feature lets you download the System Log as a text file (.txt) for review. The log records key events such as system startups, authentication activities, and firmware operations (dispatch, upload, upgrade, completion, etc.), including time stamps and relevant device identifiers for troubleshooting and audit purposes.

## Firmware Upgrade

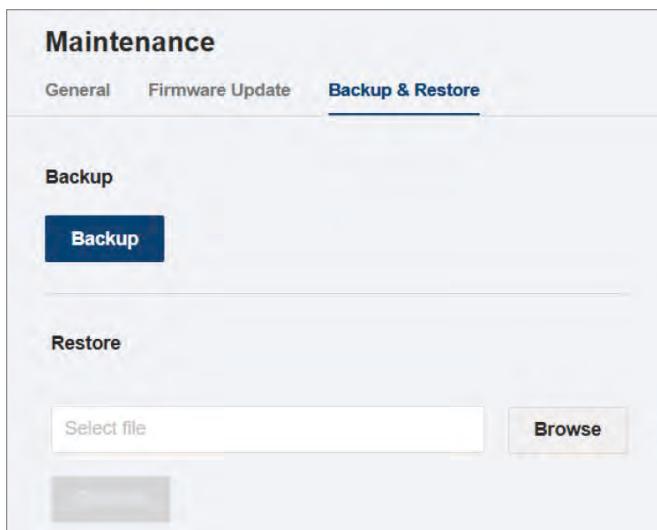
To upgrade the VE8962 device firmware, follow the steps below.

The screenshot shows the 'Maintenance' section of a web interface, specifically the 'Firmware Update' tab. A red box highlights the 'Select firmware file' input field (1), the 'Browse' button (2), and the 'Update' button (3). The table below lists seven devices with their details: ID, Device Name, IP, Firmware, and Status. The first device, R0000, is selected with a red box (1).

ID	Device Name	IP	Firmware	Status
R0000	VE8962R	169.254.0.100	V1.0.092	
T000	VE8962T	169.254.0.200	V1.0.092	
T001	VE8962T	169.254.0.201	V1.0.092	
R0001	VE8962R	169.254.0.101	V1.0.092	
R0002	VE8962R	169.254.0.102	V1.0.092	
R0003	VE8962R	169.254.0.103	V1.0.092	
T003	VE8962T	169.254.0.203	V1.0.092	

1. Select the device(s) you'd like to upgrade the firmware.
2. Click the **Browse** button to find the firmware file in your PC.
3. Click **Update** to start the upgrade process.

## **Back Up & Restore**



Backup is to save to a copy of system configurations and restore is to load a previously saved backup file to recover system configurations.

- ◆ To restore settings from a backup file, the number of devices, their Tx/Rx modes, and MAC addresses must match those in the backup.
- ◆ Network settings (IP address and subnet mask) will not be restored.
- ◆ Once the restore process is complete, all units will reboot.

## **Safety Instructions**

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### **General**

- ◆ This product is for indoor use only.
- ◆ 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.

## **Rack Mounting**

- ◆ Before working on the rack, make sure that the stabilizers are secured to the rack, extended to the floor, and that the full weight of the rack rests on the floor. Install front and side stabilizers on a single rack or front stabilizers for joined multiple racks before working on the rack.
- ◆ Always load the rack from the bottom up, and load the heaviest item in the rack first.
- ◆ Make sure that the rack is level and stable before extending a device from the rack.
- ◆ Use caution when pressing the device rail release latches and sliding a device into or out of a rack; the slide rails can pinch your fingers.
- ◆ After a device is inserted into the rack, carefully extend the rail into a locking position, and then slide the device into the rack.
- ◆ Do not overload the AC supply branch circuit that provides power to the rack. The total rack load should not exceed 80 percent of the branch circuit rating.
- ◆ Make sure that all equipment used on the rack – including power strips and other electrical connectors – is properly grounded.
- ◆ Ensure that proper airflow is provided to devices in the rack.
- ◆ Ensure that the operating ambient temperature of the rack environment does not exceed the maximum ambient temperature specified for the equipment by the manufacturer.
- ◆ Do not step on or stand on any device when servicing other devices in a rack.

## Technical Support

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### **International**

- ◆ For online technical support – including troubleshooting, documentation, and software updates: <http://support.aten.com>
- ◆ For telephone support, see *Telephone Support*, page v:

### **North America**

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

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

## Specifications

### VE8962T

Function	VE8962T
<b>Video Input</b>	
Interfaces	1 × HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5m
<b>Video</b>	
Max. Data Rate	Average: 500–800Mbps
Compliance	HDMI (4K) HDCP2.3 & HDCP2.2 Compatible
Max. Resolutions / Distance	Up to 4K@100m (Cat 5e/6, point to point) <b>Note:</b> 4K supported: 4096 × 2160 / 3840 × 2160 @ 60Hz (4:4:4)
<b>Video Compression</b>	Optimized JPEG2000, proprietary codec
<b>Latency</b>	~ 1 frame
<b>Audio</b>	
Input	1 × HDMI Type A Female (Black) 1 × Mini Stereo Jack Female (Green)
<b>Connectors</b>	
Unit To Unit	1 × RJ-45 Female or 1 × SFP+ socket (SFP+ module excluded)
Power	1 × DC Jack (Black) with locking or 1 × RJ-45 (Power Over Ethernet, PoE+)
<b>Control</b>	
IR Channel	2 × Mini Stereo Jack Female (bi-directional, Black)

Function	VE8962T	
RS-232	Connector	1 x Terminal Block, 3 pole
	Baud Rate	19200
	Data Bits	8
	Stop Bits	1, no parity and flow control
USB Channel	1 x USB Type B Female (White)	
<b>Pushbuttons</b>		
Operating Mode Selection	3 x Push buttons for LCM operation	
<b>LEDs</b>		
Power	1 x DC in LED (Green) 1 x PoE LED (Green)	
<b>Power Consumption</b>	DC5V; 4.35W; 25BTU/h	
	<p><b>Note:</b></p> <ul style="list-style-type: none"> <li>◆ The measurement in Watts indicates the typical power consumption of the device with no external loading.</li> <li>◆ The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.</li> </ul>	
<b>Environmental</b>		
Operating Temperature	0–40°C	
Storage Temperature	-20–60°C	
Humidity	0–80% RH, Non-Condensing	
<b>Physical Properties</b>		
Housing	Metal	
Weight	0.73 kg (1.61 lb)	
Dimensions (L x W x H) with bracket	17.02 x 14.69 x 3.00 cm (6.7 x 5.78 x 1.18 in.)	

<b>Function</b>	<b>VE8962T</b>
Dimensions (L x W x H) without bracket	16.60 x 12.49 x 2.90 cm (6.54 x 4.92 x 1.14 in.)

**VE8962R**

Function	VE8962R
<b>Video Input</b>	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5m
<b>Video Output</b>	
Interfaces	1 x HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5m
<b>Video</b>	
Max. Data Rate	Average: 500–800Mbps
Compliance	HDMI HDCP2.3 & HDCP2.2 Compatible
Max. Resolutions / Distance	Up to 4K@100m (Cat 5e/6, point to point) <b>Note:</b> 4K supported: 4096 × 2160 / 3840 × 2160 @ 60Hz (4:4:4)
<b>Video Compression</b>	Optimized JPEG2000, proprietary codec
<b>Latency</b>	~ 1 frame
<b>Audio</b>	
Output	1 x HDMI Type A Female (Black) 1 x Mini Stereo Jack Female (Green)
<b>Connectors</b>	
Unit To Unit	2 × RJ-45 Female (× 1 with POE+, × 1 with Daisy chain) or 1 × SFP+ socket (SFP+ module excluded)
Power	1 × DC Jack (Black) with locking or 1 × RJ-45 (Power Over Ethernet, PoE+)

Function	VE8962R	
<b>Control</b>		
IR Channel	2 x Mini Stereo Jack Female (bi-directional, Black)	
RS-232	Connector	1 x Terminal Block, 3 pole
	Baud Rate	19200
	Data Bits	8
	Stop Bits	1, no parity and flow control
USB Channel	2 x USB Type A Female (Black)	
Contact In	Connector: 1 x Terminal block, 2 pole (Contact IN + GND)	
<b>Pushbuttons</b>		
Operating Mode Selection	3 x Push buttons for LCM operation	
<b>LEDs</b>		
Power	1 x DC in LED (Green) 1 x PoE LED (Green)	
<b>Power Consumption</b>	DC5V; 9.1W; 68BTU/h	
	<p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• The measurement in Watts indicates the typical power consumption of the device with no external loading.</li> <li>• The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.</li> </ul>	
<b>Environmental</b>		
Operating Temperature	0–40°C	
Storage Temperature	-20–60°C	
Humidity	0–80% RH, Non-Condensing	
<b>Physical Properties</b>		
Housing	Metal	

Function	VE8962R
Weight	0.74 kg (1.63 lb)
Dimensions (L x W x H) with bracket	17.02 × 14.69 × 3.00 cm (6.7 × 5.78 × 1.18 in.)
Dimensions (L x W x H) without bracket	16.60 × 12.49 × 2.90 cm (6.54 × 4.92 × 1.14 in.)

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## Supported Browsers

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Please see the table below for supported web browsers and the versions.

Web Browser	Supported Versions
Google Chrome	60.0.3112 or later
Mozilla Firefox	54.0.1 or later
Opera	46 or later

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## **ATEN Warranty Policy**

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The warranty policy may vary by product category and region of purchase. For details, please visit ATEN's official website, select your purchase counties/ regions and then go to the Support Center, or contact your local ATEN sales representative for further assistance.

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