Simply Better Connections

VE8662

True 4K HDMI H.265 over IP Transceiver with PoE
User Manual

Compliance Statements

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

Online Registration

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

International	http://eservice.aten.com

Telephone Support

For telephone support, call this number:

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

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

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

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

Package Contents

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

VE8662

1 VE8662 True 4K HDMI H.265 over IP Transceiver with PoE

1 RS-232 terminal block

1 foot pad set (4 pcs)

1 power adapter and power cord

1 user instructions

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About This Manual

This User Manual is provided to help you get the most from your VE8662 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 VE8662 True 4K HDMI H.265 over IP Transceiver with PoE.

Chapter 2, Hardware Setup, introduces you to panel components and provides step-by-step instructions for installing and setting up your VE8662 hardware.

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

Chapter 4, Browser Web Control, provides an overview of the VE Manager's main screen and step-by-step instructions of creating and editing display layouts.

Chapter 5, Workstation OSD Control, expatiates the local workstation operation.

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

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

Conventions

This manual uses the following conventions:

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

Chapter 1
Introduction and Getting Started

Overview

The ATEN VE8662 True 4K HDMI H.265 over IP Transceiver with PoE combines transmitter and receiver functions in one unit, offering flexible deployment and easy configuration for various AV solutions.

Powered by standard H.265 encoding and decoding technology for video compression, the VE8662 enables efficient transmission of 3840 × 2160 @ 60 Hz (4:4:4) HDMI video / audio, stereo audio, USB 2.0, and RS-232 signals over a single Ethernet cable for up to 100 meters (point-to-point), with built-in error correction for low latency and reduced bandwidth usage. It also supports embedded and de-embedded audio, allowing audio to be embedded in the HDMI stream or extracted and delivered separately.

The VE8662 also features AV matrix switching with both horizontal and vertical display configurations for video walls. The Transceiver enables seamless collaboration between workstations and video walls with functions such as “push” and “pull” for instant content sharing, boundless switching for easy switching between receivers, and On-Screen Display (OSD) for simple configuration of both units.

With dual power supplies, DC-in, and Power over Ethernet (PoE), the VE8662 ensures continuous operation, even during power failures, making it ideal for mission-critical applications. The transceiver offers multiple control options, including pushbuttons, web GUI, RS-232 and Telnet / Reslink. The user-friendly web GUI enables customizable background and layouts for intuitive management over all video inputs and outputs.

With limitless scalability and flexibility, the VE8662 is perfect for diverse scenarios such as video broadcasting, casinos, sports centers, and smart buildings where managing multiple video feeds over a network is essential and can transmit signals from building to building.

Features

Advanced H.265 Compression with Low Latency

- Extends True 4K HDMI signals over IP with H.265 compression for low latency and improved bandwidth efficiency
- Delivers visually lossless high-quality video up to 3840 × 2160 @ 60 Hz (4:4:4)
- EDID Expert™ selects the optimum EDID settings for smooth power-up, high-quality display and the best video resolution across different screens
- Supports HDR 10 with HDCP 2.3/2.2 compliant for content protection
- Supports individual stereo audio and HDMI audio format of PCM 2 channels
- High-security protection—AES 128-bit encryption for secured data transmission
- Supports either PoE or DC in; power redundancy when both are connected

Limitless Scalability and Flexibility

- Extends AV connections from a simple point-to-point to a multi-point to multi-point setup via up to 100 meters (point to point)
- Offers multiple functions for applications such as extenders, splitters, video walls, and matrix switches
- Built-in 8KV/15KV ESD protection
- Rack-mountable

Collaboration with ATEN Control System

- Integrated solution—compatible with ATEN Control System, allowing users to directly operate VE8662 via CLI Telnet, or RS-232 protocol
- Effortless operation—one click to effectively operate VE Manager, TV, projector, source player, and related equipments via touch panel and keypad

No Complicated IP Setup

- Simple configuration with no extensive IT experience or extra learning required

- Assign ID numbers for fast installation, no complex IP settings required
- Single DIP switch enables easy switching between transmitter / receiver, with 'T' or 'R' shown on the LCM and distinct backlighting for easy identification
- Effortless source switching via pushbuttons

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

- Drag-and-drop video sources, preview sources, and monitor displays via intuitive web GUI
- Contextualized Web GUI with environmental pictures for intuitive control
- Fast switching enables real-time video streams and stable signal transmission
- User authority control for high-security applications
- Ensures secure communication with HTTPS encryption

Video Wall Support

- Real-time video display with “What You See Is What You Get” functionality
- Supports horizontal and vertical display orientations (including 90° and 270° rotations)
- “Push” and “Pull”—shares content instantly to / from a single Rx or video wall by just one click

Spontaneous Scheduling Management

- User-friendly scheduling management with minute-level event control
- Group VE8662 devices by receivers or video walls for content editing and playback
- Multiple profiles arranged to play in any order over a selected time period

Embedded / De-embedded Audio Support

- Separates audio signal can be embedded into the HDMI stream
- Audio stream 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

- LCD screen— top-panel LCD screen and pushbuttons allow for switching input, monitoring the ID & IP address and status of the extender
- Intuitive Web GUI—software independent, simple to operate it on any PC or Notebook
- USB Connectivity—USB 2.0 ports allow for connection of devices such as keyboard, mouse and USB touch panels
- 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
- Remote KVM control—hotkey switching (double-click the Ctrl key), OSD switching on the receiver, and boundless mouse switching

Getting Started Tasks

Follow the steps below to install, connect, configure, and get started with your VE8662 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 VE8662 devices on walls or racks. For more information, see *Mounting the VE8662 Device*, page 10.
3. Connect the VE8662 devices to sources, displays, network, and other hardware devices as required. For more information, see the installation diagrams on *Connecting VE8662*, page 11.
4. Use one of the following methods to assign input sources.

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

   - Assign input sources using the device panel.
     For more information, see *Assigning Input Video Source to VE8662 Receiver*, page 27.
   - Assign input sources using VE Manager.
     For more information, see *Assigning Sources*, page 64.

Supported Browsers

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

Web Browser	Supported Versions
Google Chrome	109 or later
Mozilla Firefox	131 or later
Microsoft Edge	128 or later
Opera	113 or later
Safari	18.1 or later

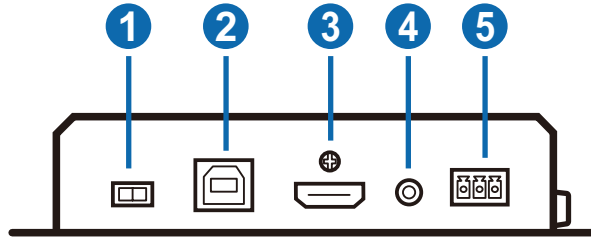
Chapter 2
Hardware Setup

Before you proceed to hardware setup:

1. Please review the safety information regarding the placement of this device in *Safety Instructions*, page 109.
2. Do not power on the VE8662 device until all the necessary hardware is connected.

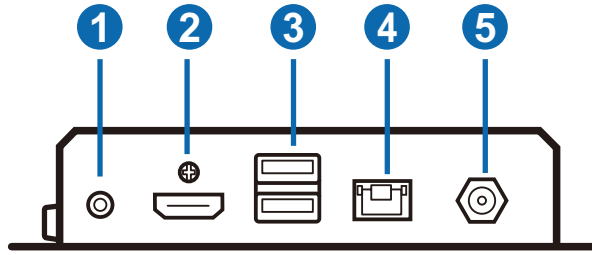
Components

VE8662 Front View



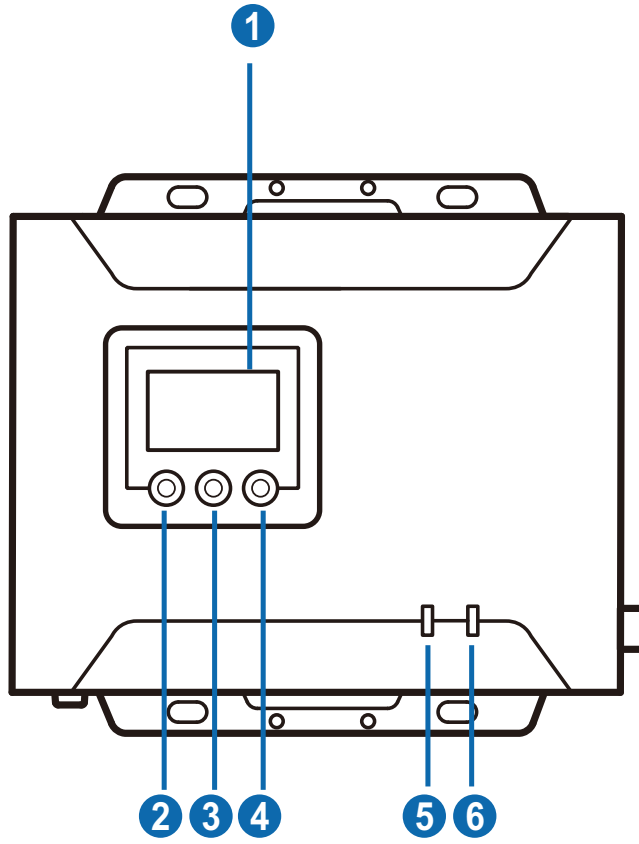
No.	Component	Function
1	Tx / Rx switch	Define the unit as transmitter or receiver by setting the Tx / Rx switch. Once the mode (transmitter / receiver) is changed, you need to manually reboot the unit to make the setting take effect. The VE8662 unit will clear the previous mode settings after the manually reboot, and it automatically reboot again to apply the changed mode.
2	USB Type-B port	Connects to a source (e.g. PC / Mac).
3	HDMI in	Uses an HDMI cable to connect to a source device.
4	audio in	Connects to an audio source device.
5	RS-232 serial port	Connects to an RS-232 serial devices / peripherals.

VE8662 Rear View



No.	Component	Function
1	audio out	Connects to an audio output device.
2	HDMI out	Uses an HDMI cable to connect to a display device.
3	USB Type-A ports	Connects to the USB peripherals such as keyboard and mouse.
4	LAN port with PoE	Uses an Ethernet cable to connect the VE8662 to an Ethernet switch.When both LAN with PoE and the DC power input are connected, the VE8662 supports power redundancy. In this state, both the DC in and PoE LEDs remain steadily lit to indicate active dual power sources. Refer to the description about PoE power LED and DC-in power LED next page.
5	power jack	Connects to the DC power adapter to provide power to the unit.

VE8662 Top View

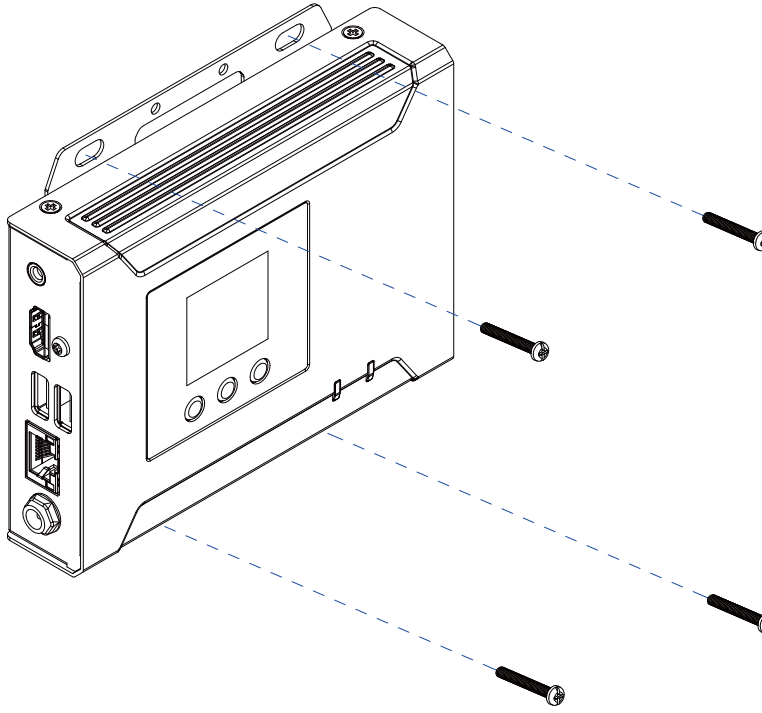


No.	Component	Function
1	LCD display	Shows the unit's basic information including ID, IP address, and firmware version.
2	prev. button	Uses the prev. / next buttons to assign IDs to all VE8662 units and then assign an input source of VE8662 transmitter to VE8662 receiver.
3	next button	
4	enter button	Uses the enter button to confirm the selection.
5	PoE power LED	Lights green to indicate the unit is receiving PoE power.
6	DC-in power LED	Lights green to indicate the unit is receiving DC power from the power supply.

Mounting the VE8662 Device

Wall Mount

Secure or hang the VE8662 device to the wall using the built-in brackets.

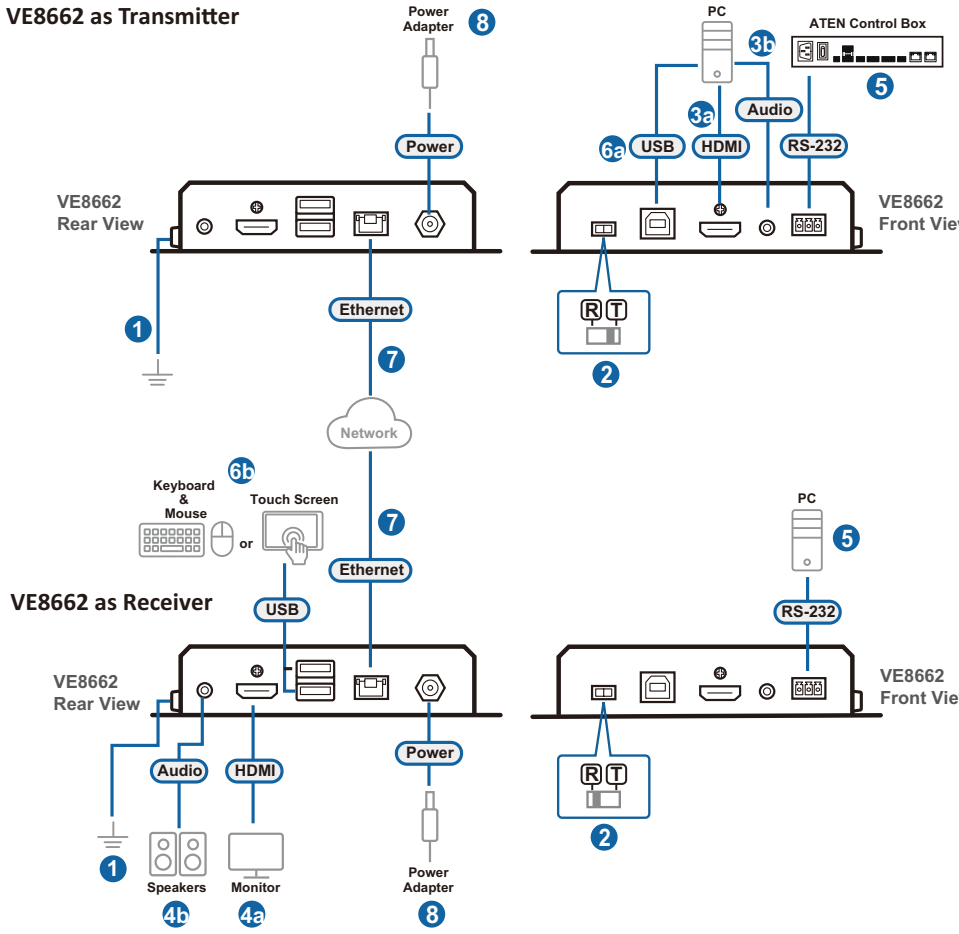


Rack Mount

Use the VE-RMK1U Rack Mount Kit to rack-mount the VE8662. For more information about this accessory, go to www.aten.com/products

Connecting VE8662

Follow the steps below to connect your VE8662 devices with the hardware as required.



Note: The illustrated diagram is based on two VE8662 units.

Note: Make sure all the equipment you are connecting to the unit is turned off and disconnected from the power source.

1. Ground the VE8662 by connecting one end of a grounding wire to the grounding terminal and the other end to a suitable grounded object.

2. Set the Tx / Rx switch to define the units.

3. For VE8662 as transmitter:

   a) Connect your video source device to the HDMI input port using an HDMI cable.

   b) Connect your audio source device to the audio input port using an appropriate audio cable.

4. For VE8662 as receiver:

   a) Connect your video display device to the HDMI output port using an HDMI cable.

   b) Connect your audio device to the audio output port using an appropriate audio cable.

5. (Optional) To remotely control a PC through serial controller, connect the RS-232 port of the transmitter to a serial controller, and then connect the RS-232 port of the receiver to a PC, and vice versa.

6. (Optional) To connect a USB host and USB devices:

   a) Connect a USB host (e.g. PC) to the transmitter’s USB Type-B port.

   b) Connect your USB HID devices such as keyboard and mouse to the receiver's USB Type-A ports.

7. Set up the VE8662 units as followings:

   - **Point-to-point setup**

     Connect one end of an Ethernet cable to the transmitter's LAN port and the other end of the cable to the receiver's LAN port.

     Note: Point-to-point connection doesn’t support Power over Ethernet.

- **Multipoint-to-multipoint setup**

  Install the transmitter(s) and the receiver(s) to the same local area network by connecting the LAN ports with PoE to an Ethernet switch using Ethernet cables.

  Note: By connecting to a PoE-supported Ethernet switch, the VE8662 can be powered through an Ethernet cable.

8. Connect the supplied power adapter to the unit's power jack after powering on all other connected equipment.

Note: To enable power redundancy, operate both VE8662 transmitter and receiver with PoE power source, and connect the units with the power adapters for the external power source.

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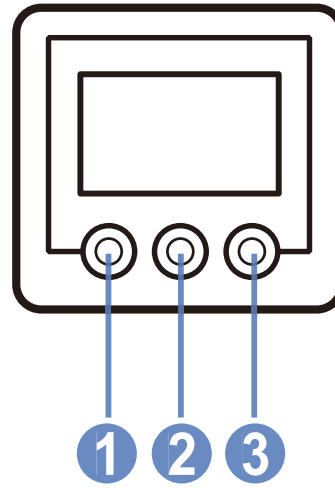
Chapter 3
Panel Operation

Overview

The readout section on VE8662 unit contains an LCD display for users to check the settings of the unit, and 3 buttons that deliver the following functions:



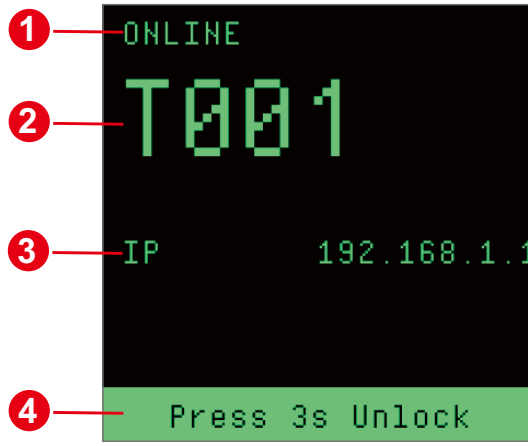
No.	Button	Description
1	prev	The prev button functions as a navigation button to cycle through the options listed on the LCD display. Press the button once to select the previous item, and continue pressing it to scroll upward through the options.
2	next	The next button functions as a navigation button to cycle through the options listed on the LCD display. Press the button once to select the next item, and continue pressing it to scroll downward through the options.
3	enter	The enter button is used to confirm your selection. Press the button to enter the page of the selected item for more information or operation.

Basic Operation

Lock Screen

VE8662T

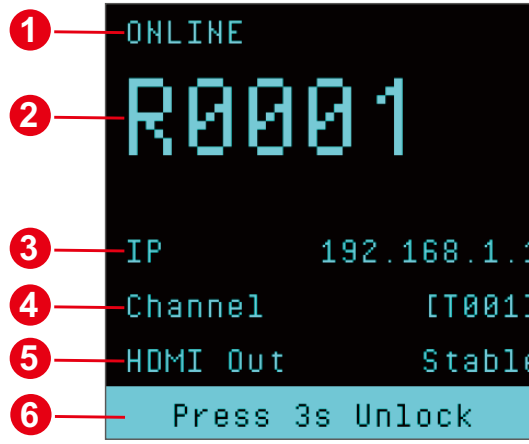
On the lock screen of VE8662T, it displays the following information:



No.	Item	Description
1	connection status	Displays the network connection status of this VE8662T unit: ◆ ONLINE: The unit is currently connected to the network. ◆ OFFLINE: The unit is disconnected from the network.
2	device ID	Shows the device ID of this VE8662T unit.
3	device IP address	Shows the IP address of this VE8662T unit.
4	screen lock indicator	Indicates that the unit's OSD is currently locked. To unlock the screen, press any button for 3 seconds.

VE8662R

The VE8662R unit shows the information on the lock screen as following:



No.	Item	Description
1	connection status	Displays the network connection status of this VE8662R unit: ◆ ONLINE: The unit is currently connected to the network. ◆ OFFLINE: The unit is disconnected from the network.
2	device ID	Shows the device ID of this VE8662R unit.
3	device IP address	Shows the IP address of this VE8662R unit.
4	channel	Shows the input video source. N/A means the unit is disconnected with the video inpt source.
5	HDMI out	Displays the status of the HDMI out: ◆ Stable ◆ Unstable ◆ Unplugged

No.	Item	Description
6	screen lock indicator	◆ Press 3s Unlock: Indicates that the unit's OSD is currently locked. To unlock the screen, press any button for 3 seconds. ◆ Workstation lock: The unit is grouped in a workstation, and all the settings through OSD are unavailable.

Lock / Unlock the OSD

When the VE8662's LCD display is locked, the screen lock indicator shows "Press 3s Unlock." To unlock the on-screen display, press and hold any button for 3 seconds.

Note: The OSD automatically locks when the timeout duration specified in VE Manager is reached.

To manually lock the OSD, press any button for 3 seconds (no matter which screen page you are on).

Backlight

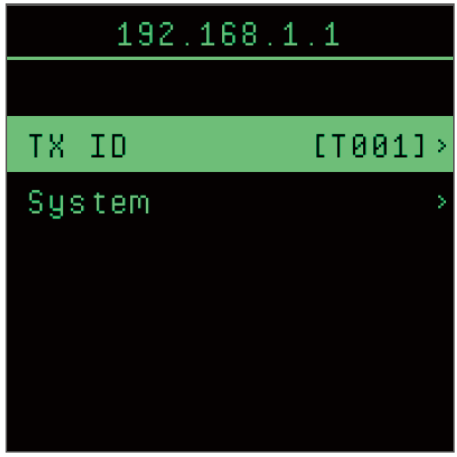
The VE8662's LCD backlight turns off after the screen has been locked for 10 seconds. To turn the backlight back on, you can:

- Press any button for 3 seconds to unlock the screen.
- Press any button once to turn the backlight on. The screen backlight goes off again if there's no activity within 10 seconds.

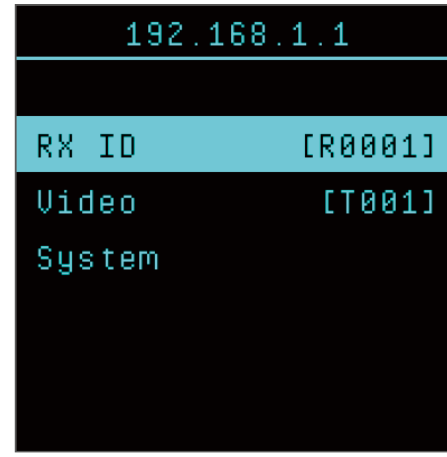
Main Menu

Once the LCD display is unlock, the main menu shows up.

VE8662 Transmitter Main Screen

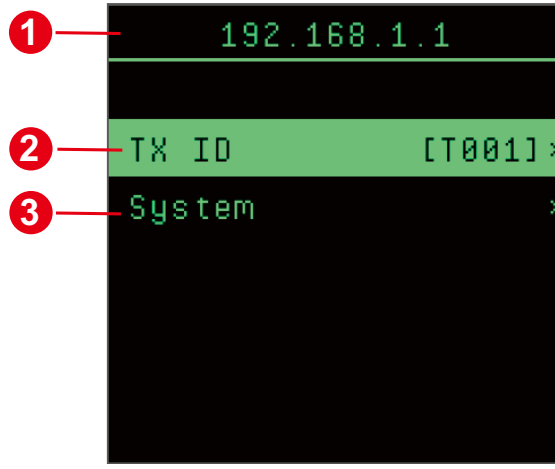


VE8662 Receiver Main Screen



VE8662T

The VE8662T main menu displays the unit's IP address and provides two menu options:

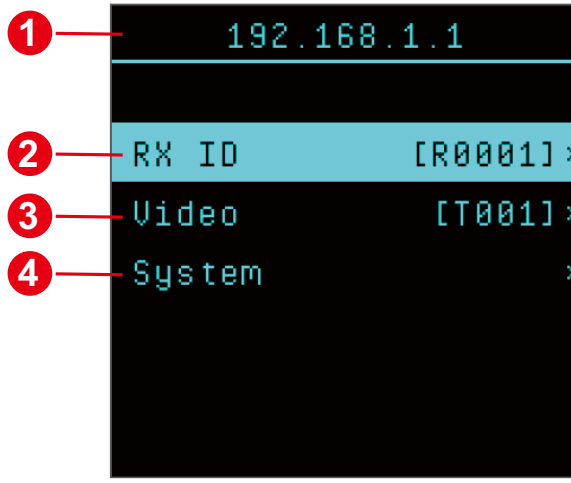


No.	Item	Description
1	IP address	The IP address of this VE8662T.
2	Tx ID	The device ID of this VE8662T. Enter the option menu to change the unit's ID.
3	System	A set of system configuration options available for users to view and perform. Access the options menu for further actions

Use the navigation buttons (prev. / next) to select a main menu option, then press **Enter** to access the option menu.

VE8662R

The VE8662R main menu shows the unit's IP address and provides three selectable menu options:



No.	Item	Description
1	IP address	Shows the IP address of this VE8662R.
2	Rx ID	Shows the device ID of this VE8662R. Enter the option menu to change the unit's ID.

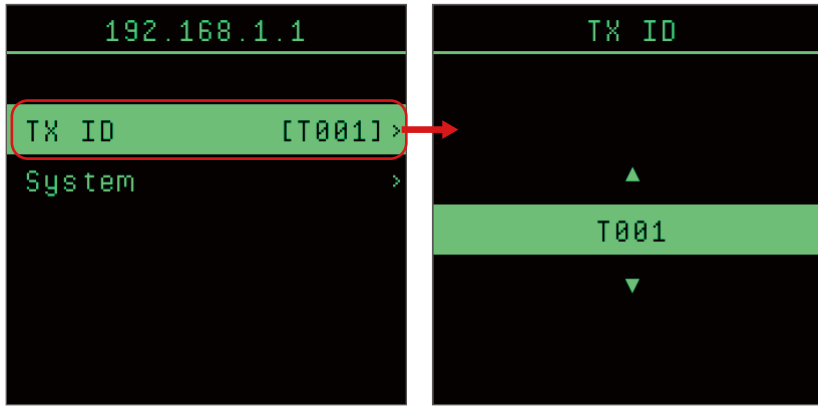
No.	Item	Description
3	Video	Displays the current input video source to which the VE8662R is connected. Enter the options menu to select an available input video source.
4	System	Offers a set of system settings for user to check and execute. Enter the option menu for more operation.

Use the navigation buttons (prev / next) to select a main menu option, then press **Enter** to access the options menu.

Setting Device ID

To set the ID for the VE8662, do the followings:

1. From the main menu screen, select ID to enter the Tx / Rx ID screen.



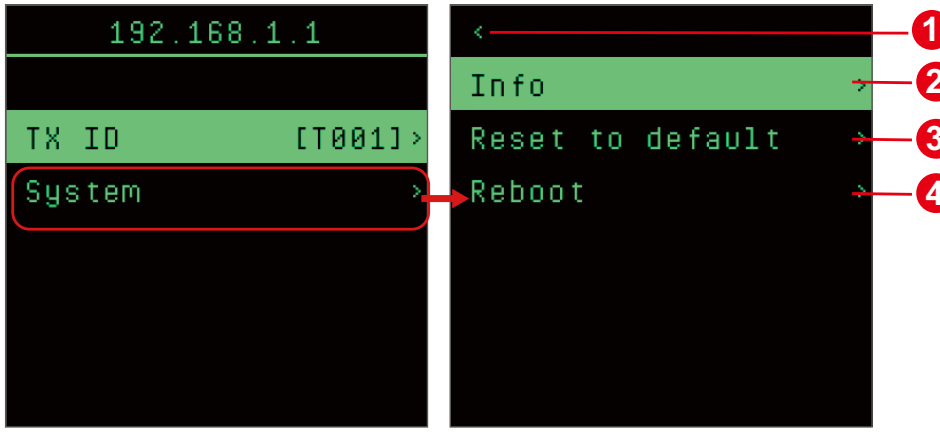
2. The available IDs are listed incrementally. Use the navigation buttons (prev / next) to select an IDs, and press the enter button.

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

3. Select **OK** and press the enter button to confirm your setting, or select **Cancel** to discard the change.

System

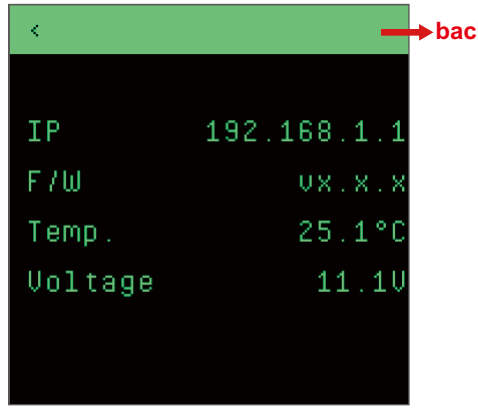
The system option menu contains the four options:



No.	Item	Description
1	back	Return back to the previous page.
2	Info	Check the following information of this unit: ◆ IP address ◆ firmware version ◆ device temperature ◆ voltage
3	Reset to default	Restore the unit to the factory default.
4	Reboot	Switch off the unit and then immediately start it again.

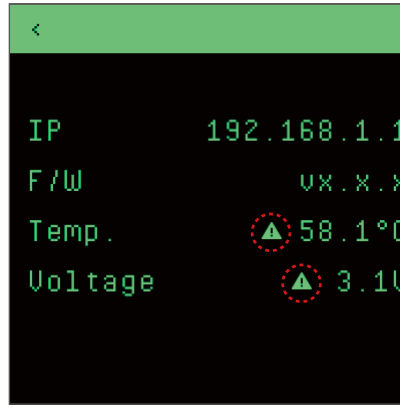
Info

Access the info page to check the unit's information.



Item	Description
back	Select the option **<** (back) to go back to the previous page.
IP	Shows the unit's IP address.
F/W	Shows the current firmware version of this unit.
Temp.	Shows the current temperature of this unit.
Voltage	Shows the current voltage of this unit.

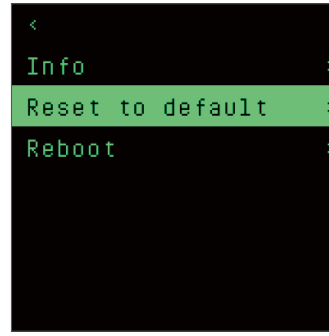
Please note that a warning sign will be displayed if a temperature or voltage anomaly is detected.



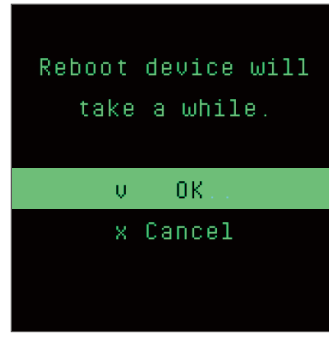
Reset to default

To restore the VE8662 to the factory default, do the following:

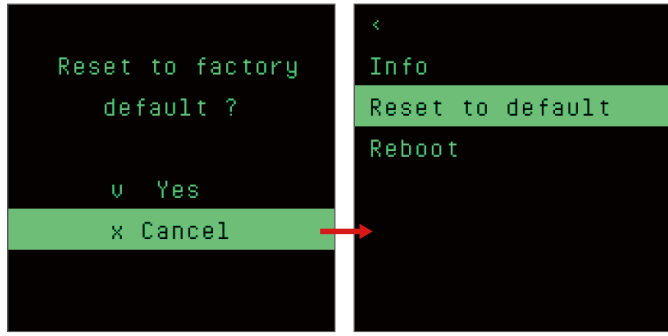
1. Use the navigation buttons (prev / next) to select the option **Reset to default**, and then press the enter button.



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



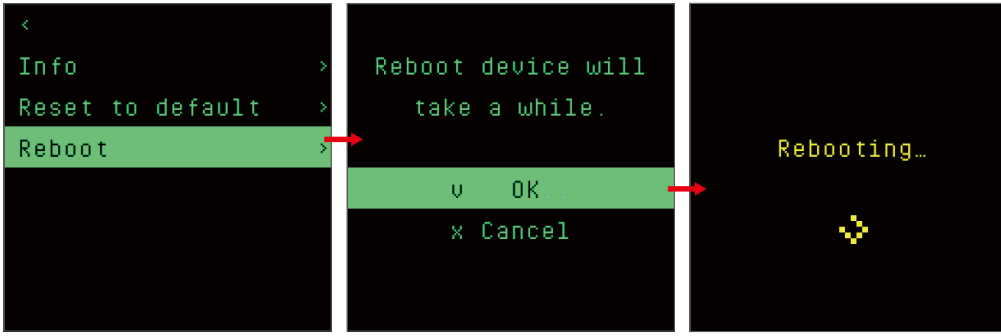
Note: By selecting **Cancel**, you will go back to the system option menu screen.



3. The reset process begins and will take a few seconds to complete. Once finished, the unit will reboot and you will be taken to the main menu screen.

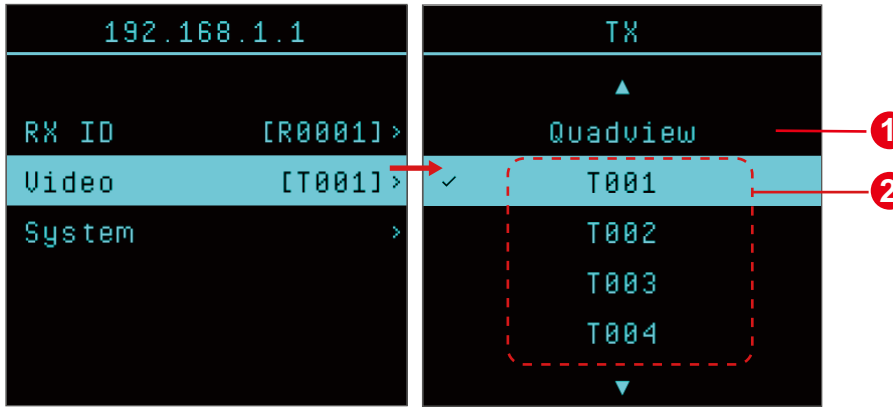
Reboot

To reboot the VE8662 unit, access the system option menu, select **Reboot**, and confirm your selection.



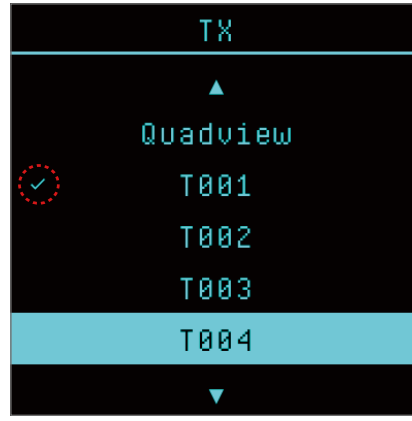
Assigning Input Video Source to VE8662 Receiver

To assign video inputs to the VE8662R, select the **Video** option from the main menu screen.

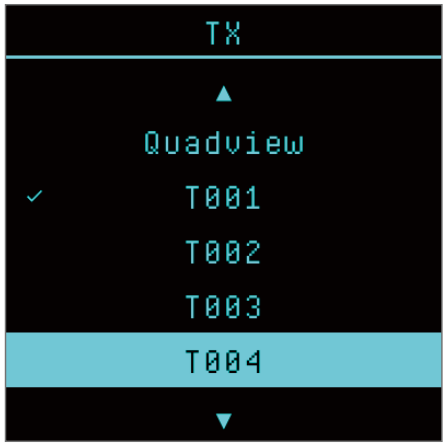


No.	Item	Description
1	Quadview	This function is reserved for future use.
2	transmitter device ID	Refers to the video source from the VE8662T unit(s) connected to the same network. Use the navigation buttons (prev / next) to select an available video source from the aforementioned VE8662T unit(s).

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



To adopt a video source from the available VE8662T unit(s), use the navigation buttons (prev / next) to select a Tx source, then conform your selection by pressing the enter button.



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

Chapter 4
Browser Web Control

Overview

The VE8662 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	109 or later
Mozilla Firefox	131 or later
Microsoft Edge	128 or later
Opera	113 or later
Safari	18.1 or later

Getting Started

Go through this section to learn about how to access VE Manager and manage your VE8662 transceivers.

Looking Up the Device IP Address

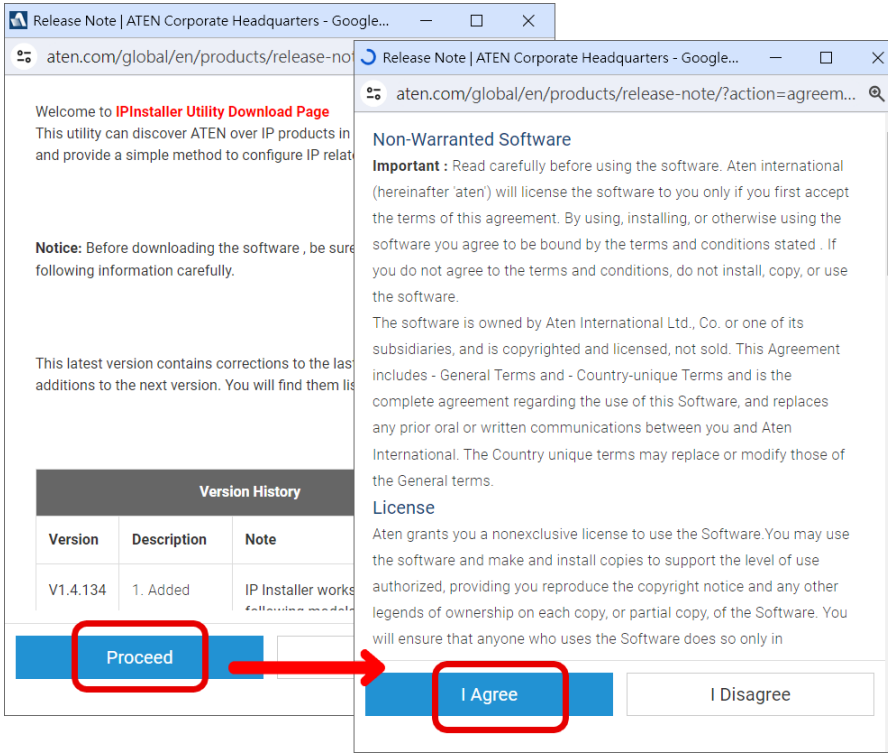
To access ATEN VE Manager, you need to get the device IP address first.

Note: No matter which unit you log in to, you will redirect to the current master unit.

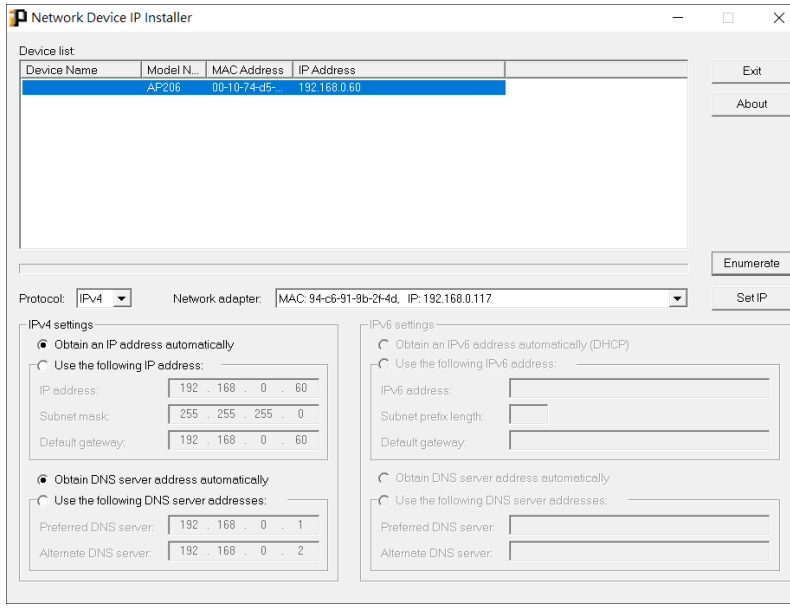
IP Installer

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.

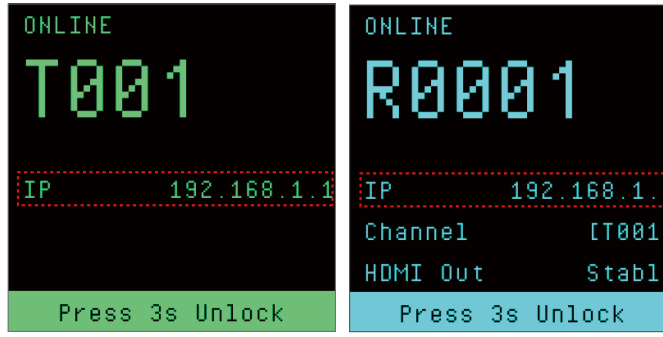


2. Unzip the .zip file of the IP Installer and then run the .exe file.
3. Obtain the IP address of the unit from the Device List, and use this IP address to access the unit's VE Manager.



Device OSD

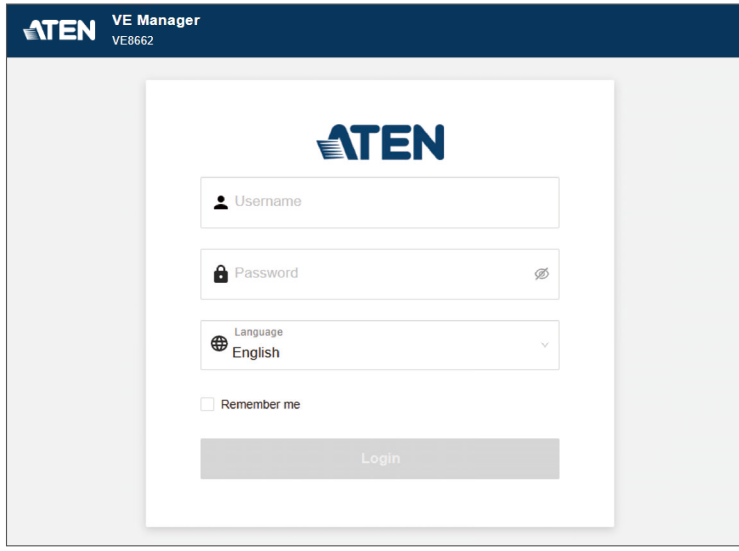
The device IP address is shown on the OSD. Check your device to obtain the IP address:



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.

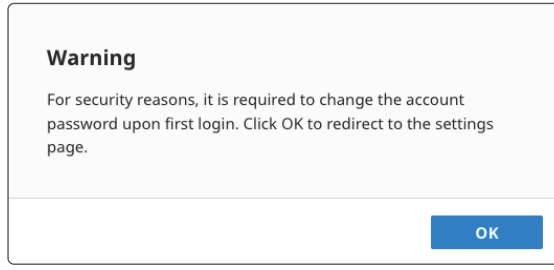


First Login

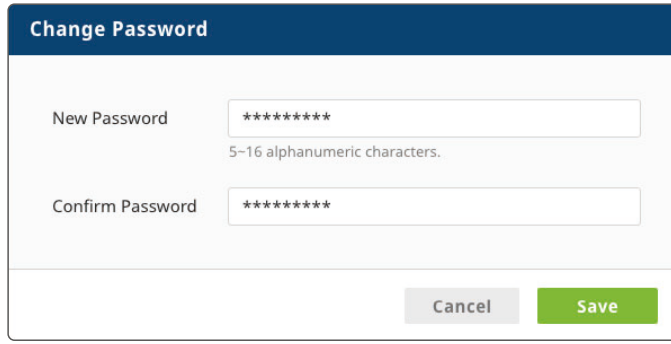
Upon first login (including the first time you log in to VE Manager after resetting the unit), you are required to set up the following settings:

1. Changing Password

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



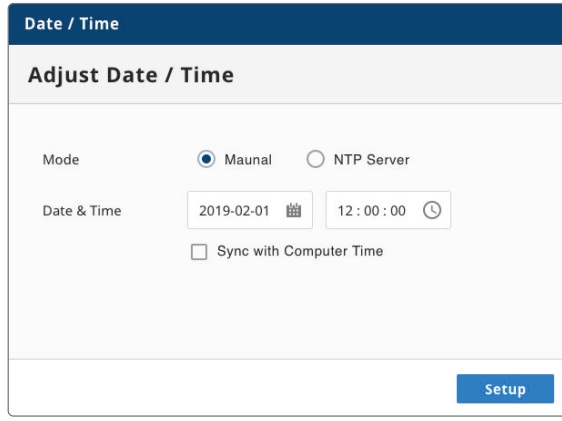
b) Enter the new password and confirm your changed password in the relevant fields. Click **Save**.



c) A message “Password changed successfully” will be displayed. Click **OK** to log in again using the new password.

2. Updating Date & Time

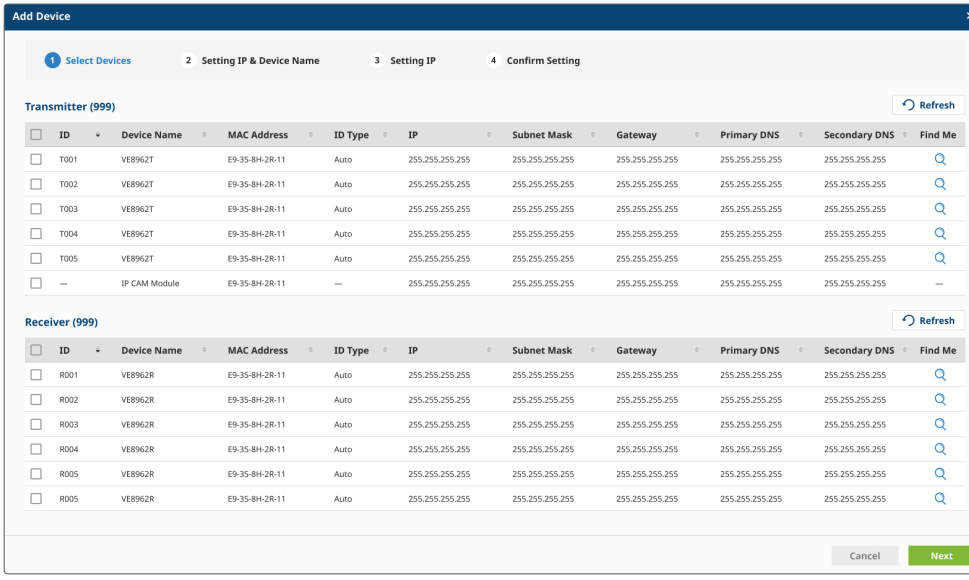
Select the mode to set up the date and time.



Settings	Description
Mode	Select between the two modes: ◆ Manual: Set the date and time manually. By selecting **Manual**, the function **Date & Time** below becomes available. Choose the date and time from the date picker and time picker. ◆ NTP Server: Set the Network Time Protocol (NTP) to synchronize the clock between the unit and the server.
Date & Time	Set the date and time from the date picker and time picker. **Note:** The function is only available when Manual mode is enabled.
Sync with Computer Time	If you wish to synchronize the time with the computer's time, click the button to process the settings.

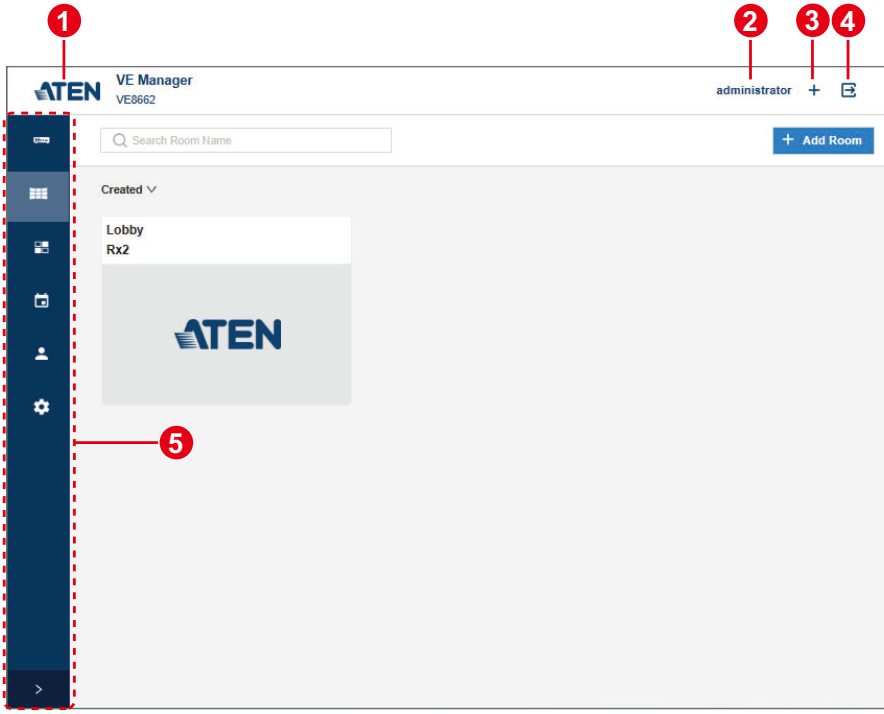
3. Adding Devices

Follow the on-screen instructions to add device(s) to be controlled and managed. See *Adding Device*, page 38 for details.



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:

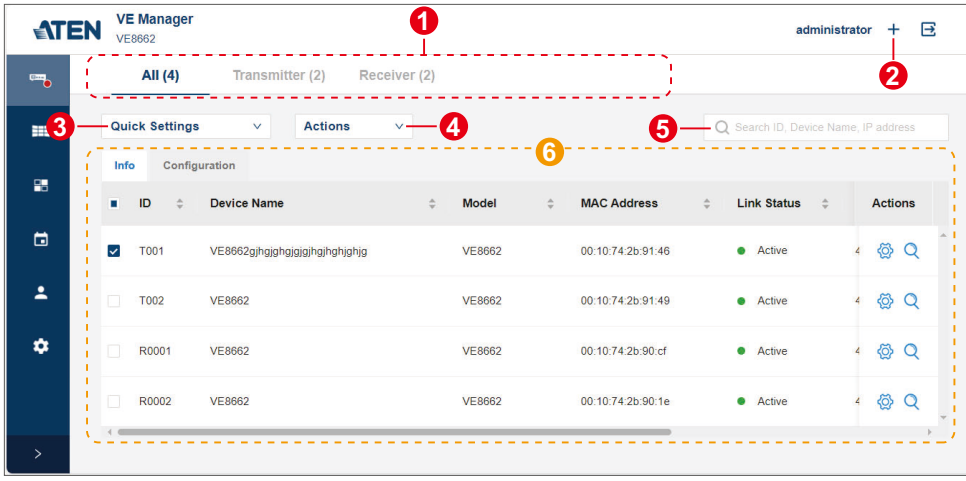


No.	Item	Description
1		Click on the ATEN logo that takes you straight to ATEN's official website.
2	signed-in account	Shows the account you use to log in to VE Manager.
3	device list	Click to open the device list
4	logout	Click to log out and you will redirect to the login page..

No.	Item	Description
5	side menu	Click to access other pages: Toggle on the button to expand / fold the side menu.

Device

The Device page lists your VE8662 units as illustrated below.

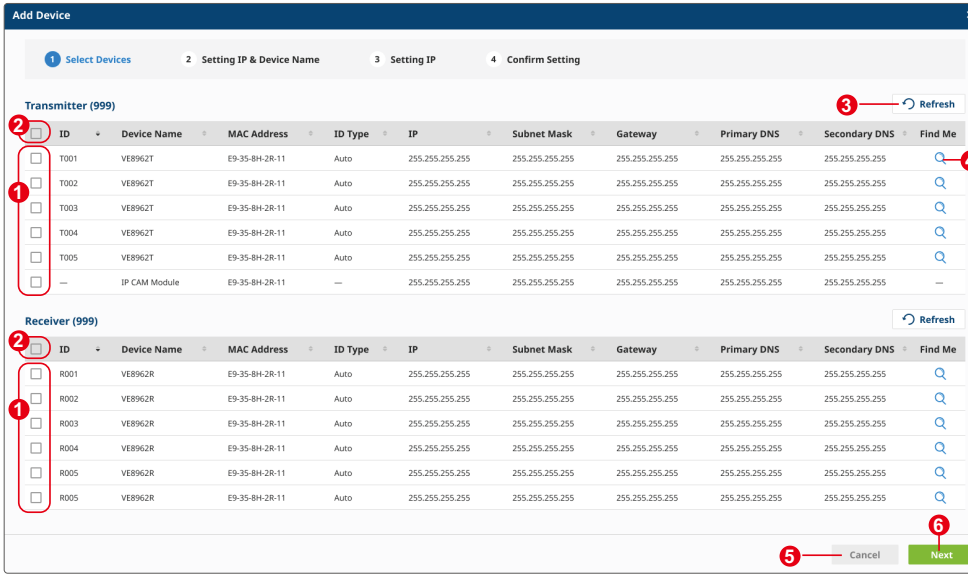


No.	Item	Description
1	tab bar	Click to enter the tab page to list your devices by: ◆ **All**: all the VE8662 units ◆ **Transmitter**: only the VE8662 transmitters ◆ **Receiver**: only the VE8662 receivers
2	add device	Click on the add device button + to open Add Device popup to select the VE8662 unit(s) you'd like to add to your VE Manager.
3	quick settings menu	Select your VE8662 unit(s) from the device list and then choose the setting to be configured for the selected device(s).
4	actions menu	Select your VE8662 unit(s) from the device list and then choose the action to be taken on the selected device(s).
5	search bar	Enter the keyword to find the VE8662 unit you need.
6	device list	Shows your VE8662 units with the unit's information on info tab while the configuration tab shows the VE8662 units with the editable information and settings.

Adding Device

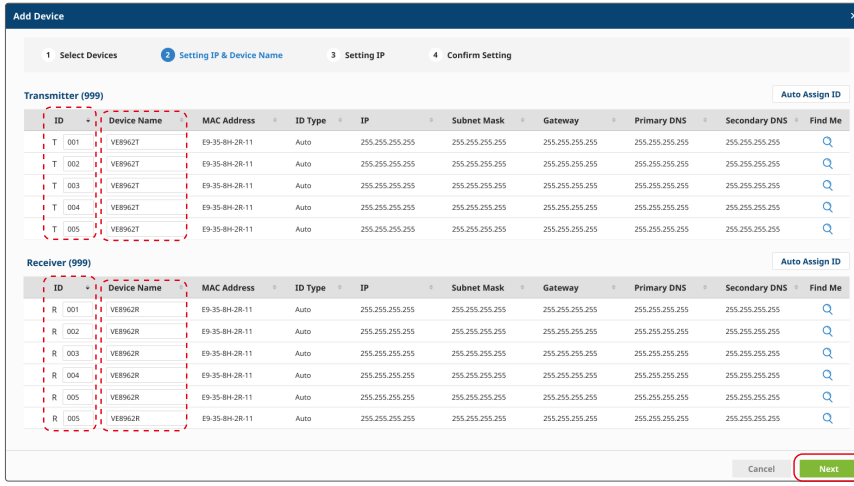
To add more VE8662 units to VE manager for centralized management, do the following:

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**.

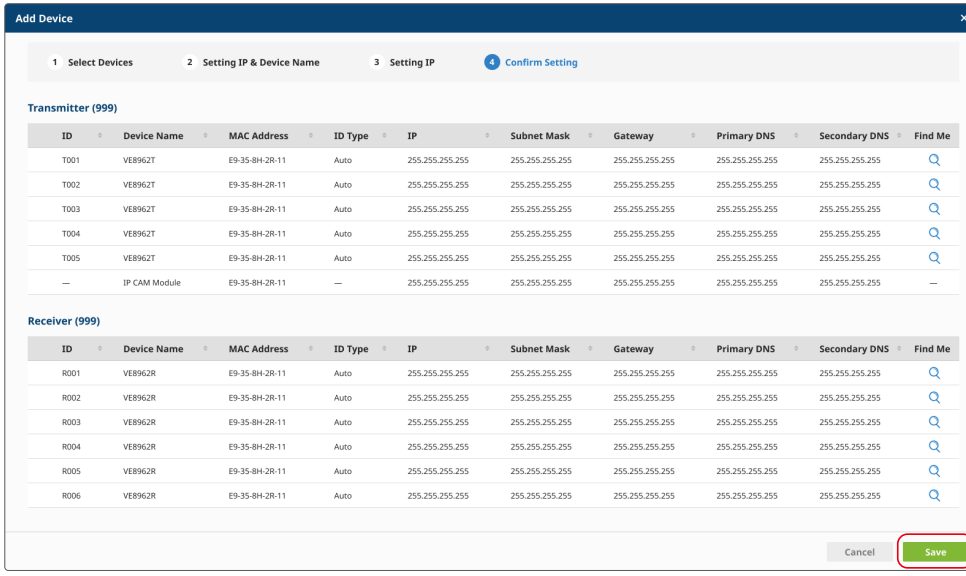


No.	Item	Description
1	checkbox	Selects the transmitter(s) / receiver(s) you'd like to add to VE Manager.
2	select all	Selects all the transmitter(s) / receiver(s).
3	refresh	Updates the available device list.
4	find me	Makes the LED of the selected unit(s) blink to help user find where the unit(s) is 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).

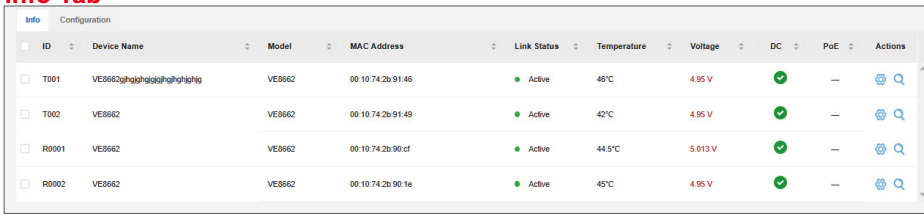


5. Now you can find the VE8662 units you just added on the device list.

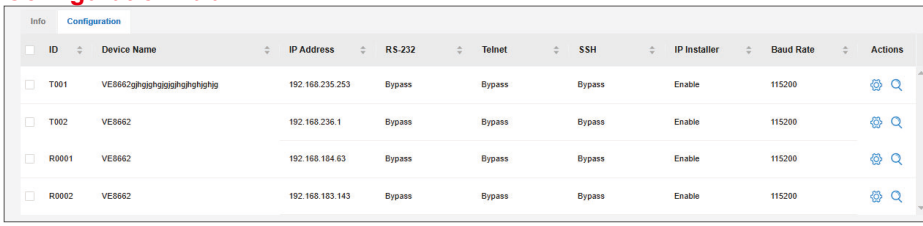
Device List

The device list itemizes your VE8662 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.

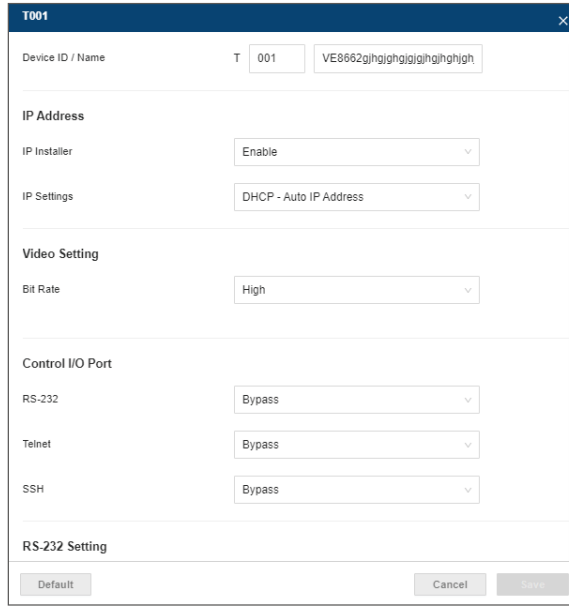
Info Tab



Configuration Tab



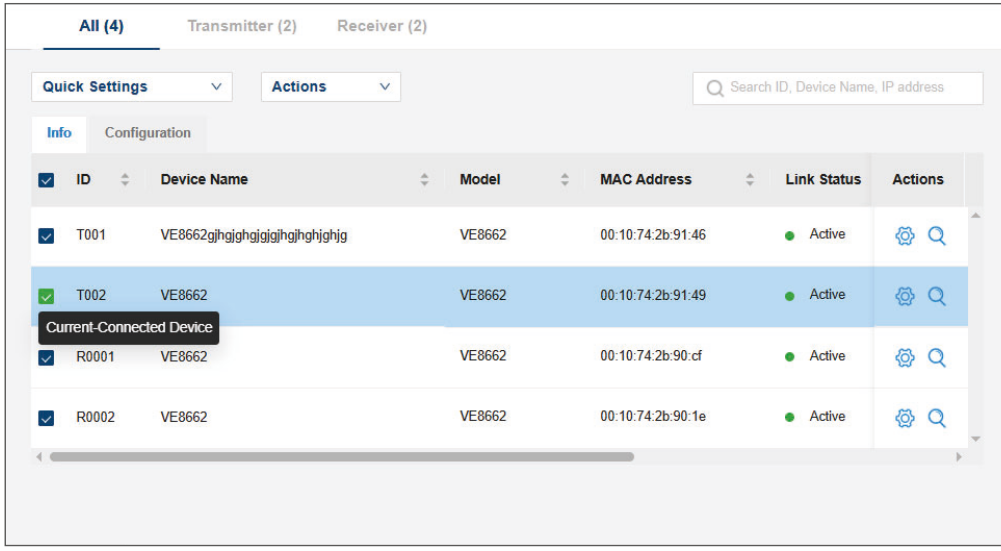
Double-click on a unit to open the unit's configuration window. Make change of this unit and save to apply the changes.



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.

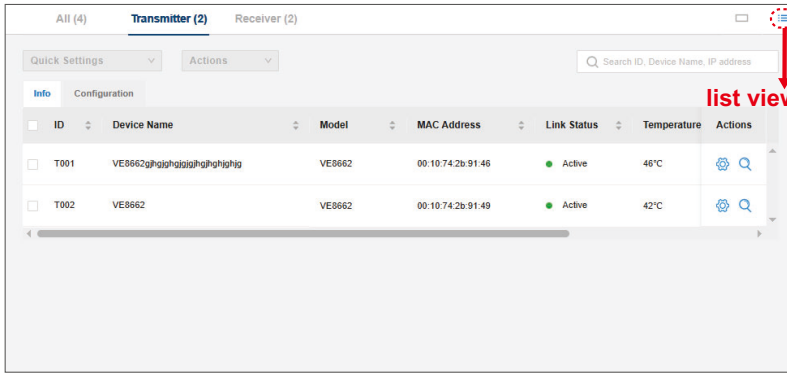
Please note that if the current-connected device (the current master unit) is selected, its checkbox is presented in green.



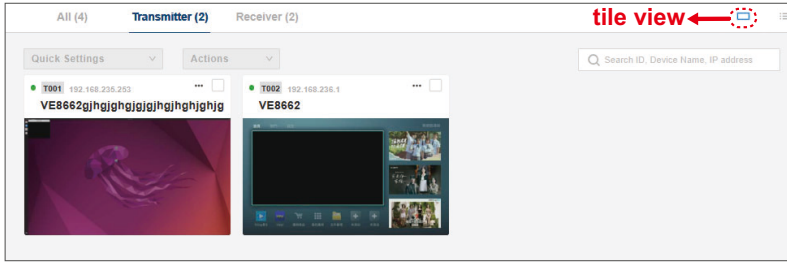
Transmitter Tab Page

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

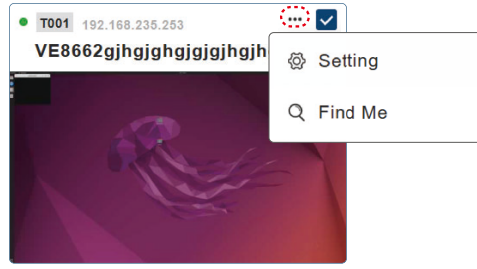
- List View :



- Tile View :



In the tile view, click the more button on the tile card of the transmitter to open an option menu for the following operation:

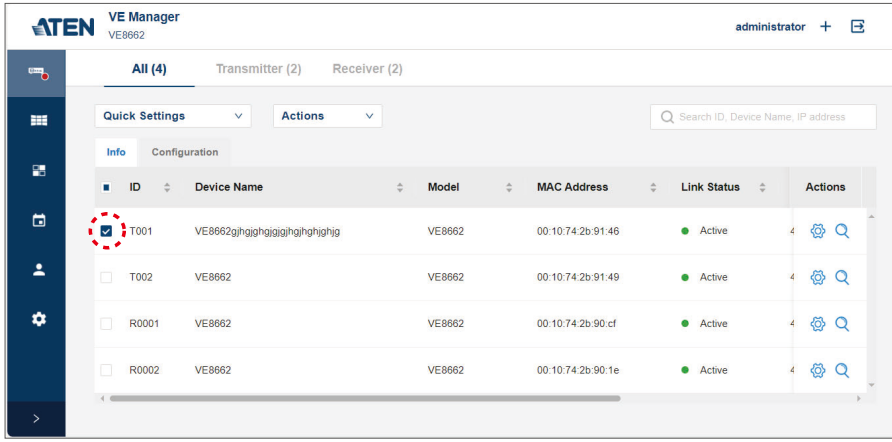


Item	Description
Setting	Opens the unit's configuration window to make changes.
Find Me	Makes the LED of the selected unit(s) blink to help user find where the unit(s) is located.

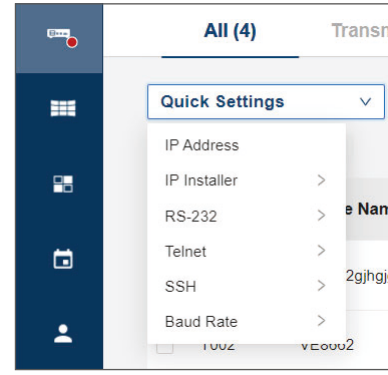
Quick Settings Menu

To quickly get a specific setting done on the VE8662 unit(s), do the following:

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

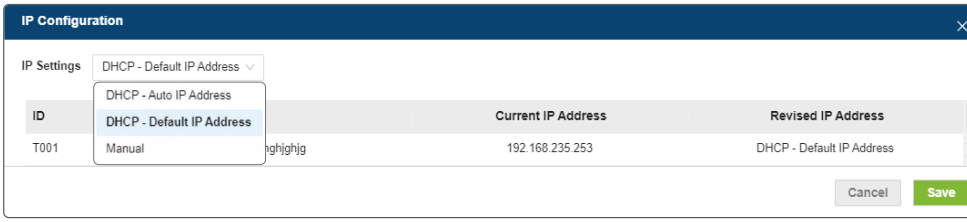


2. From **Quick Settings** drop-down menu, select the setting option you'd like to configure.



IP Address

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



- DHCP–Auto IP Address:
  Select this option to have the IP address automatically assigned by a DHCP server.
- DHCP–Default IP Address:
  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.

IP Installer

Select the mode to define how the selected device(s) works with the ATEN's utility, IP Installer.

- Enable:
  The unit's IP address can be found by IP Installer and configured through the Set IP function of IP Installer.
- View Only:
  The unit's IP address can be found by IP Installer, but it cannot configured through IP Installer.

RS-232

Enable or disable the configuration and control of the VE8662 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

Enable or disable the configuration and control of the VE8662 unit via Telnet commands when connected to a host computer or other device, such as a control system.

- Command Mode: Enable
- Bypass: Disable

SSH

Enable or disable SSH control of the VE8662 unit.

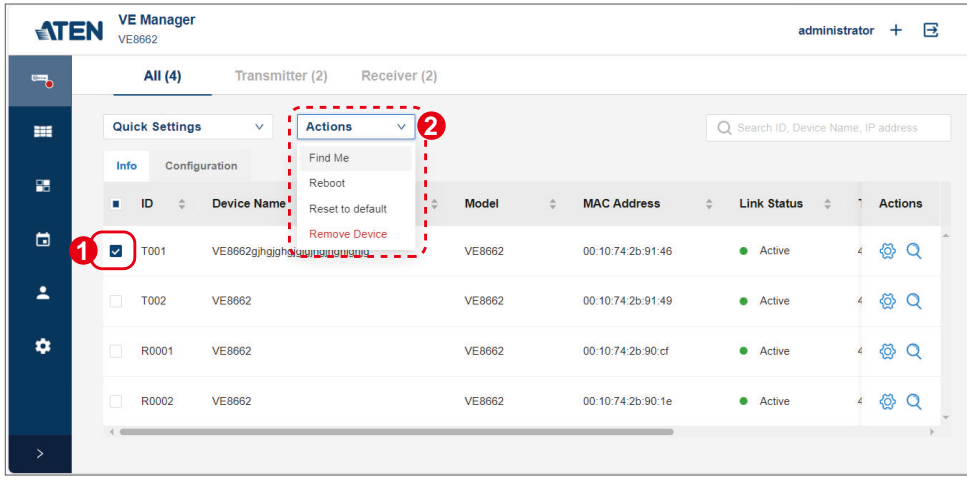
- Command Mode: Enable
- Bypass: Disable

Baud Rate

Select a suitable baud rate between 115200 and 9600.

Actions Menu

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

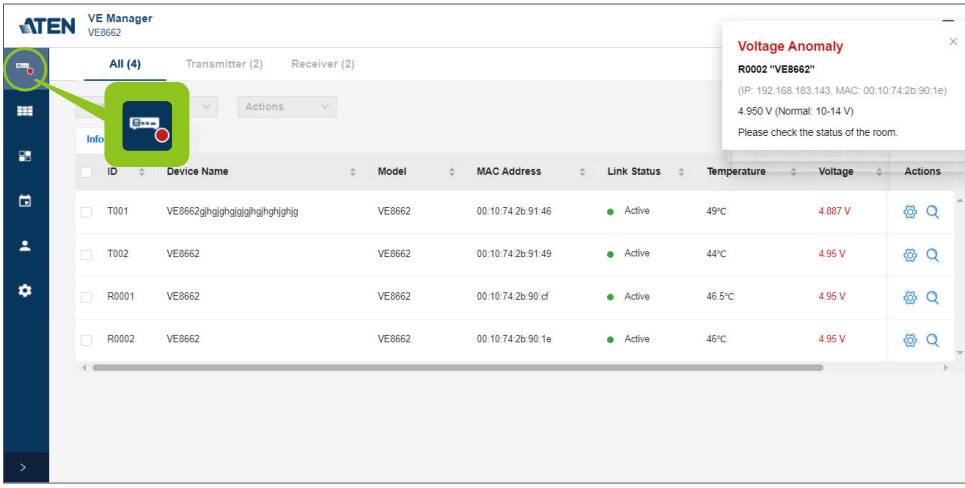


1. Select the VE8662 unit(s) by checking the checkbox(es).
2. Choose the action to be taken from the Action drop-down menu.

Action	Description
Find Me	Makes the LED of the selected unit(s) blink to help user find where the unit(s) is located.
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.

Critical Notifications

When error occurs on your device(s), a red badge appears next to **Device** icon on side menu. Access **Device** page to check the critical notification.

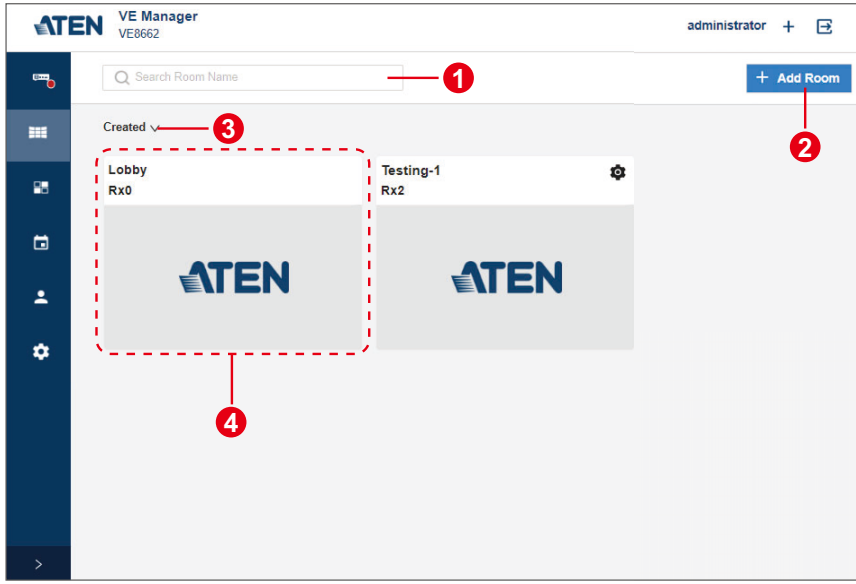


Room Management

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 helps 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 VE8662 devices.

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

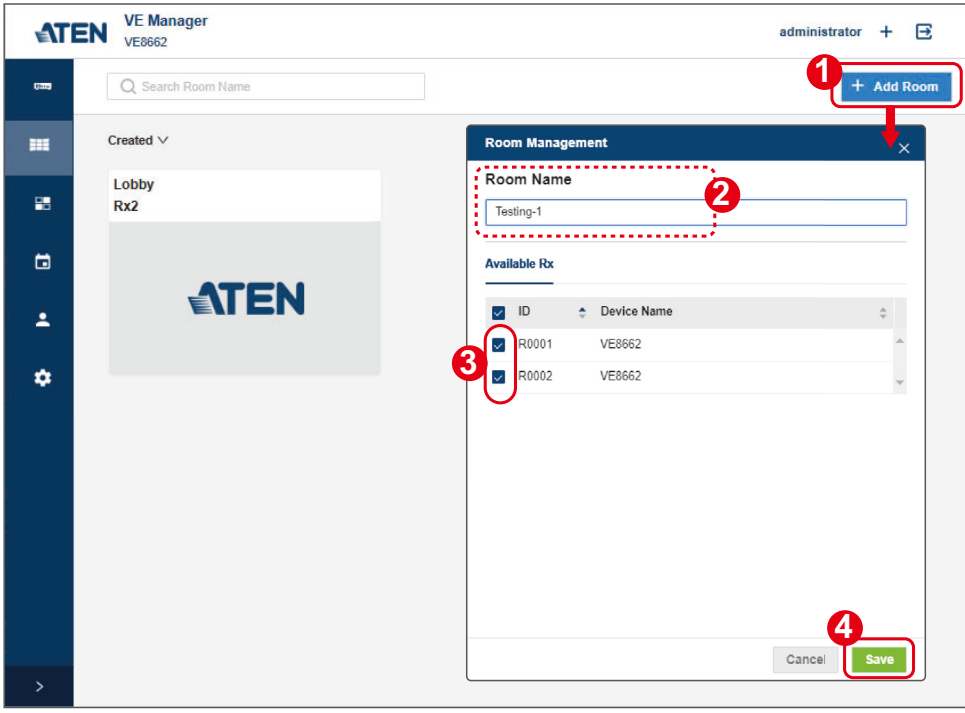


No.	Item	Description
1	search bar	Enter the keyword of the room you'd like to find to quickly display the room cards that fit the keyword.
2	add room	Click the add room button to create a new room.
3	sorting dropdown menu	Select the sort order to display your rooms: ◆ **Created**: Sorting the rooms by their created time. ◆ **A to Z**: Sorting the rooms in A–Z order.

No.	Item	Description
4	room card	Display the basic information of the virtual room. Click on the room card to access the configuration page of this room.

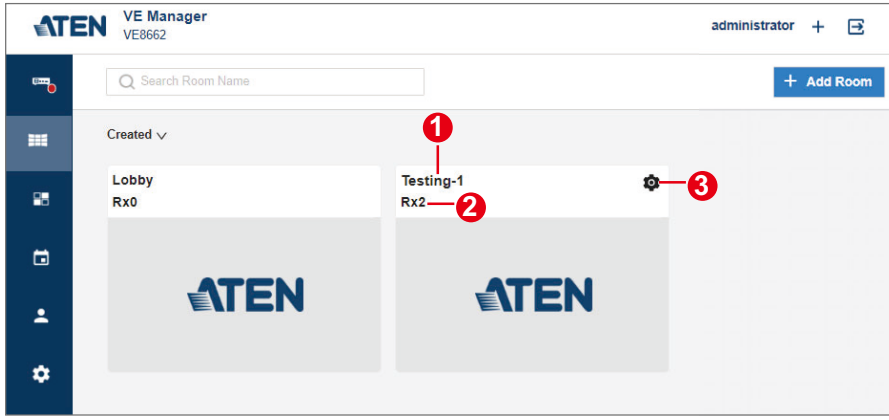
Create a New Room

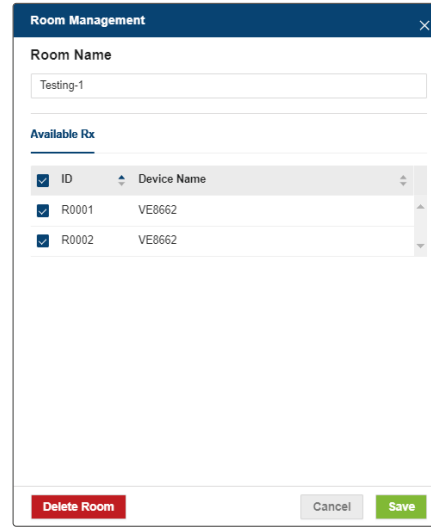
To create a new room, do the following:



1. Click on **Add Room** button to open **Room Management** popup.
2. Name for the room.
3. Assign the available receiver(s) to the room.
4. Click the save button to complete the new room settings.

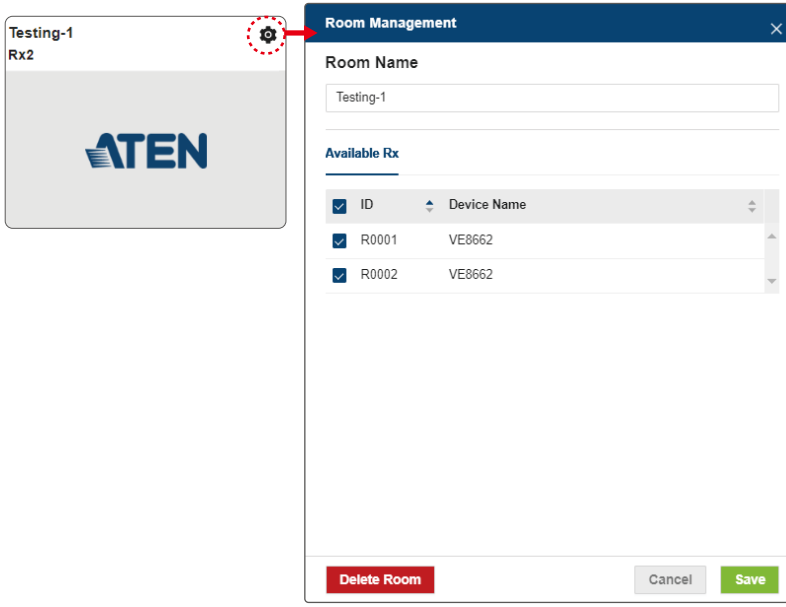
The room is successfully created and its room card is displayed on room list:



No.	Item	Description
1	room name	The name you specify for this room.
2	receiver quantity	The amount of the receiver belongs to this room
3	room settings button	Opening the room management popup to edit the room or delete the room.  **Note:** This function is not available to the default room, Lobby.

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.

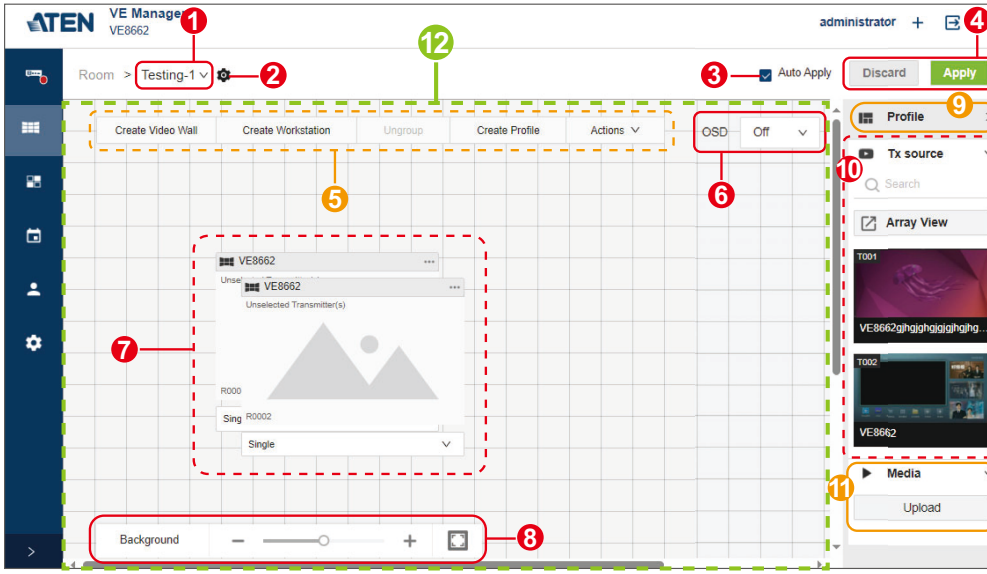


- Make changes and save.
- To delete the room, click on the delete button and confirm your action.

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

Room Configuration

Click on the room card of the room you'd like to access to enter the room's configuration page for further editing.



No.	Item	Description
1	room selections	Clicks to expand the drop-down menu that lists all the room options. Select the room you'd like to access to switch to its room configuration page.
2	settings	Clicks to open the room management popup for the options: ◆ Rename the room ◆ Add or remove receiver ◆ Delete the room **Note:** This function is not available for the default room, Lobby.
3	auto apply	Enable the function **Auto Apply**, and the changes you made in this room take effect immediately.

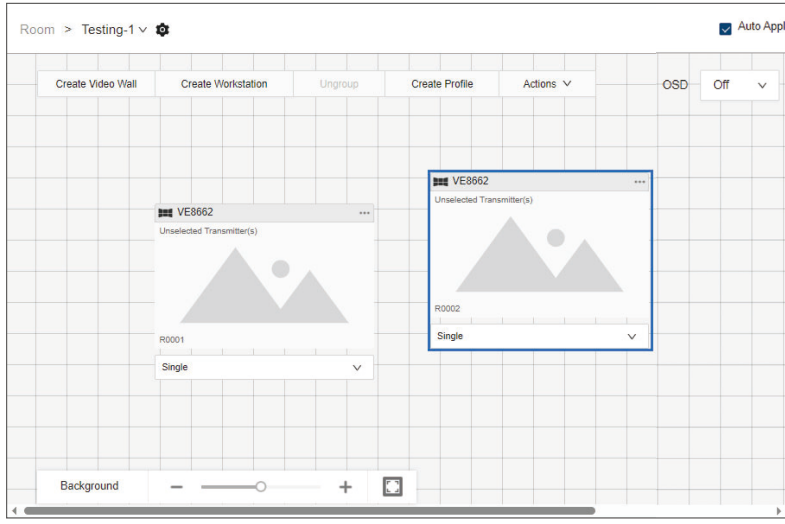
No.	Item	Description
4	apply / discard	If **Auto Apply** is disabled, you can: ◆ **Apply**: Apply the changes you just made. ◆ **Discard**: Cancel your changed settings.
5	toolbar	Provides a set of buttons and an action menu that allows user to manage the receivers belong to this room. See *Toolbar*, page 53 for details.
6	OSD setting	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: ◆ **Off**: Disable the function. ◆ **On**: Enable the function. ◆ **10 Sec.**: Display the receiver information for 10 seconds everytime an event occurs.
7	receiver / video wall / workstation card	The receiver(s) / video wall(s) / workstation belongs to this room. Drag the card to a preferred position and release it to have it placed.
8	background settings	With the background settings tool, you can: ◆ Resizes the receiver / video wall / workstation cards displayed on the room configuration page. ◆ Allows you to upload a background image such as a site layout of this room to help you organize the devices.
9	profile list	Select an existing profile to apply. Refer to profile management for details.
10	Tx source list	The Tx source list contains the following: ◆ search bar: Enter the keyword (device ID or device name) to find the transmitter(s) you need. ◆ transmitter list: Only the available transmitter(s) is displayed. Drag the transmitter video source to the receiver / video wall / workstation, and then release it to have it output to the correspond display monitor(s). ◆ array preview: Click to open a window that displays the available video sources.

No.	Item	Description
11	media list	The media list contains the following: ◆ list: Displays the uploaded images. Drag the image to the receiver / video wall / workstation, and then release it to have it output to the correspond display monitor(s). ◆ upload: Upload up to 3 image files in .jpg or .png format with a maximum size of 5MB per file. Supported resolution is 1024 × 1024 to 4096 × 2160.
12	arrangement area	The place where the receiver / video wall / workstation card(s) is placed on.

Toolbar

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

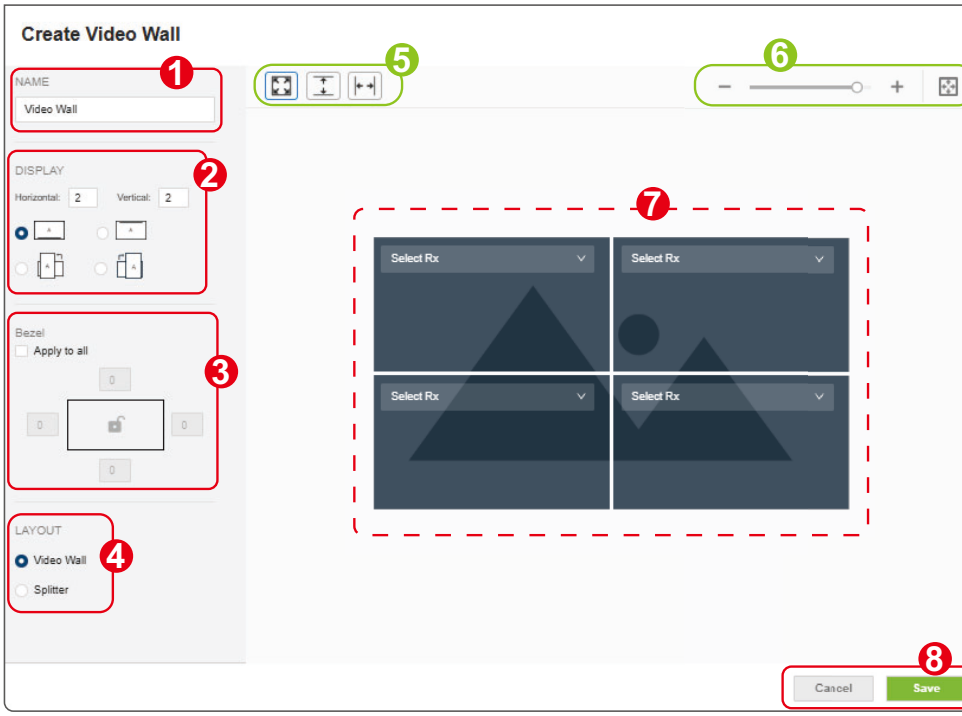
For the function **Group** / **Ungroup** and the **Actions** menu items, you need to select the target receiver(s) / video wall / workstation first. Simply click on a receiver / video wall / workstation card to select it, and the card frame will be highlighted in blue.



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

Create Video Wall

Click on the **Create Video Wall** button to open the **Create Video Wall** popup. 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. Enable **Apply to all** to apply the bezel settings to all four borders.
4. Select an operation mode for your video wall.

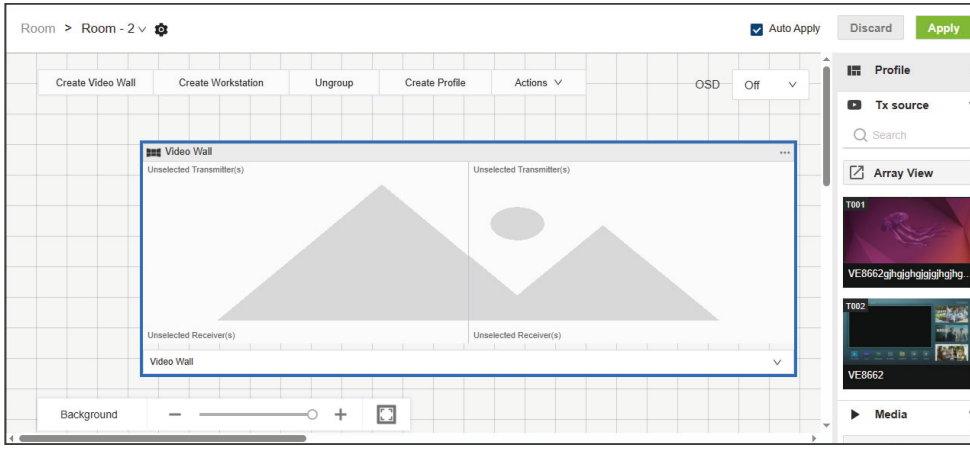
Layout	Description
Video Wall	Set up a video wall.
Splitter	Set up a display of identical content on multiple monitors.

5. Optionally use the buttons to resize the layout preview:

Item		Description
	fill screen	Makes the layout preview fit the entire preview area in this popup window.
	fit height	Fits the layout preview to the height of the preview area.
	fit width	Fits the layout preview to the width of the preview area.

6. 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.
7. The layout preview help you visualize the configurations. From the drop-down menu, select the output receiver for each display monitor.
8. Click on **Save** button to create a video wall while **Cancel** to discard the settings.

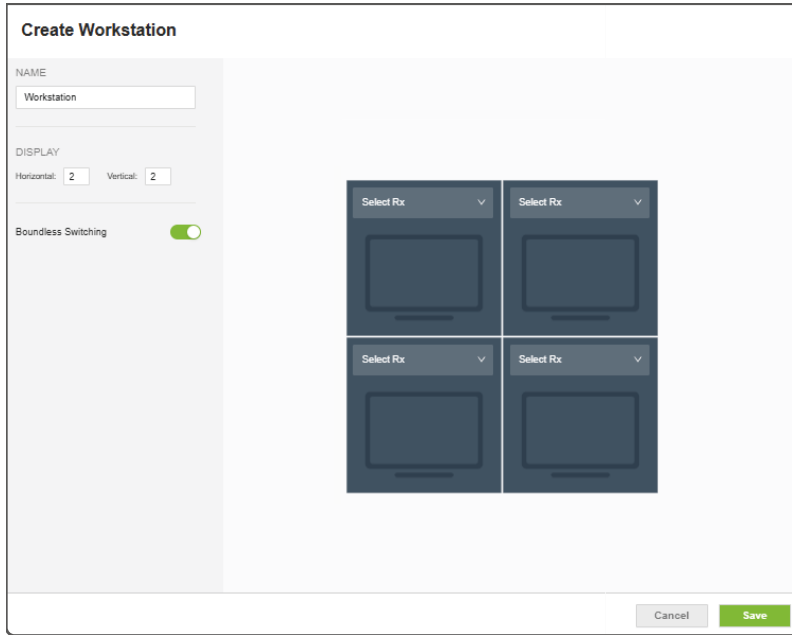
The successfully-created video wall is now on the room arrangement area. You can edit its displayed content by dragging the video / media from Tx source list and media list. See *Assigning Sources*, page 64 for details.



Create Workstation

To create a workstation:

1. Click the **Create Workstation** button on toolbar to open **Create Workstation** window.



2. Enter a name for this workstation.
3. Enter the number of the display monitors belong to this workstation.
4. Enable or disable the function **Boundless Switching** which is an intuitive way to switch control to another computer by simply moving your mouse across your display or window borders.
5. The layout preview helps you visualize the configurations. From the drop-down menu, select the output receiver for each display monitor.
6. Click on **Save** button to create a workstation while **Cancel** is to discard the settings.

The successfully-created workstation is now on the room arrangement area. You can edit its displayed content by dragging the video / media from Tx source list and media list. See *Assigning Sources*, page 64 for details.

Ungroup

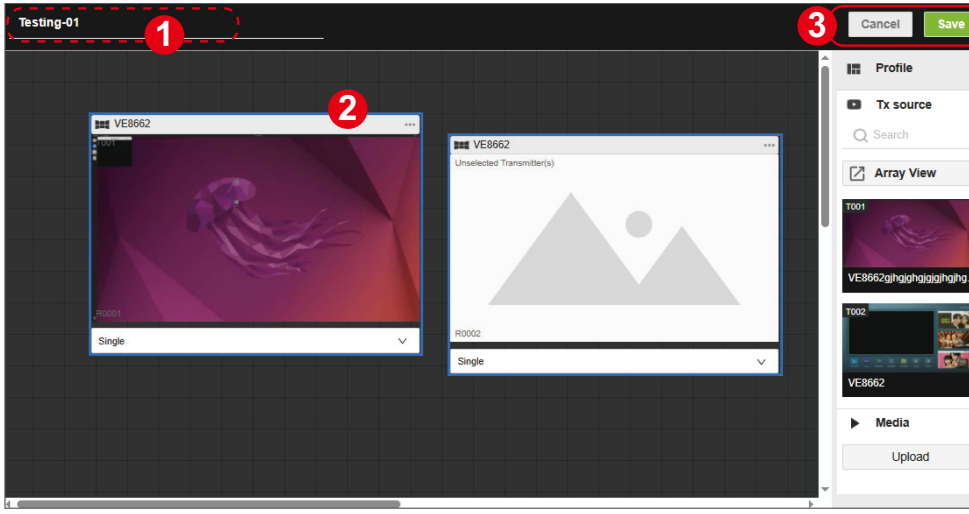
To ungroup a workstation or a video wall, do the following:

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

Create Profile

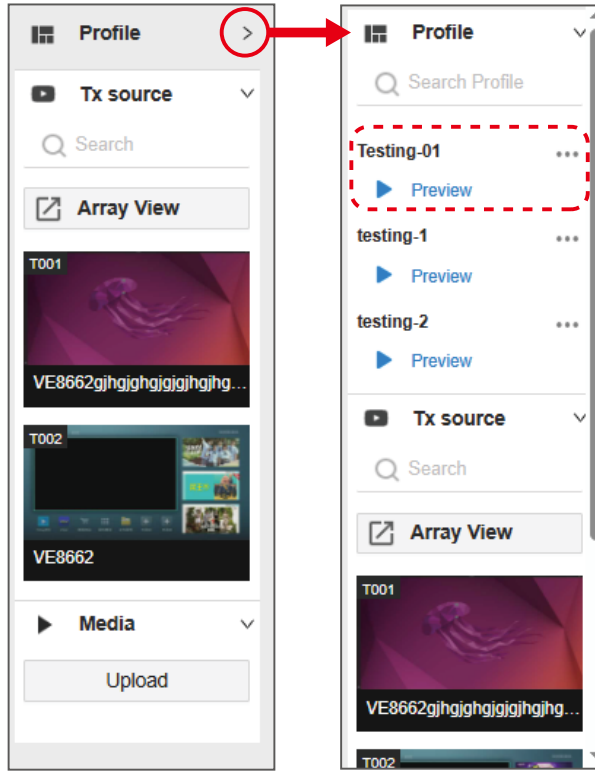
Click **Create Profile** button to save your current configuring video receiver / video wall / settings to be a profile.

Note: Workstation settings cannot save 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.

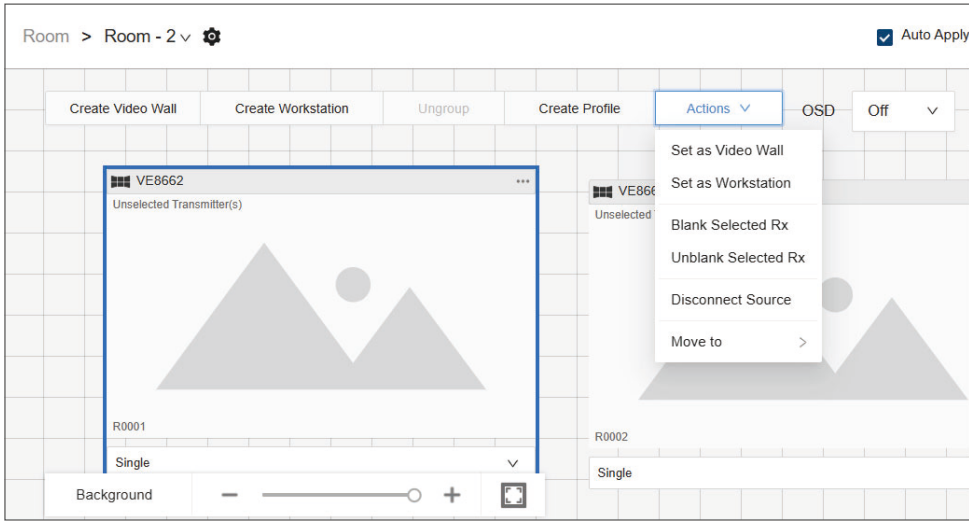
Click to unfold the profile list and you'll find the newly-created profile is listed.



For more profile operations, please refer to *Profile Management*, page 71.

Actions

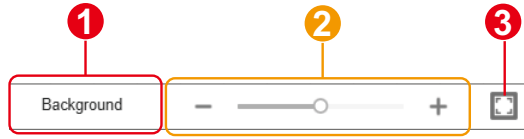
Actions menu is available once the existing receiver / video wall / workstation card(s) is selected. The options are:



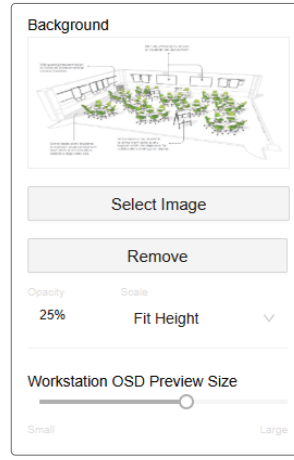
Item	Description
set as video wall	Sets the selected target(s) to be a video wall.
set as workstation	Sets the selected target(s) to be a workstation.
blank selected Rx	Disables the monitor display content of the selected target receiver, and the monitor screen of the target(s) goes blank. **Note:** This function is inapplicable to workstation.
unblank selected Rx	Enable the blanked monitor display of the selected target receiver. **Note:** This function is inapplicable to workstation.
disconnect source	Disconnect the source video from the transmitter. **Note:** This function is inapplicable to workstation.
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.
scale	Choose a fit for the background image. ◆ **Fill Screen**: Makes the background image fit the entire room arrangement area. ◆ **Fit Height**: Fits the background image to the height of the room arrangement area. ◆ **Fit Width**: Fits the background image to the width of the room arrangement area.

Item	Description
workstation OSD preview size	Adjusts the preview screen size of all the receiver(s) / video wall(s) / workstation(s) on the room arrangement area using the slider.

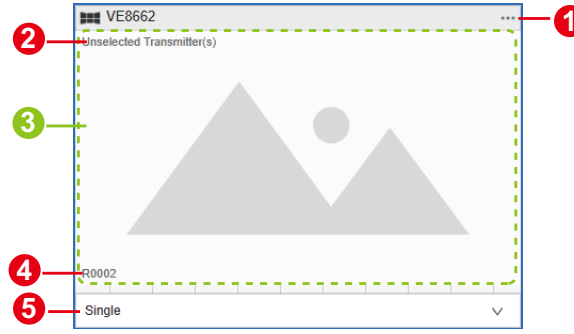
2. zoom slider
   Use the zoom slider to change the zoom level of the room arrangement area as well as the receiver / video wall / workstation card(s) on it.

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 / Workstation Management

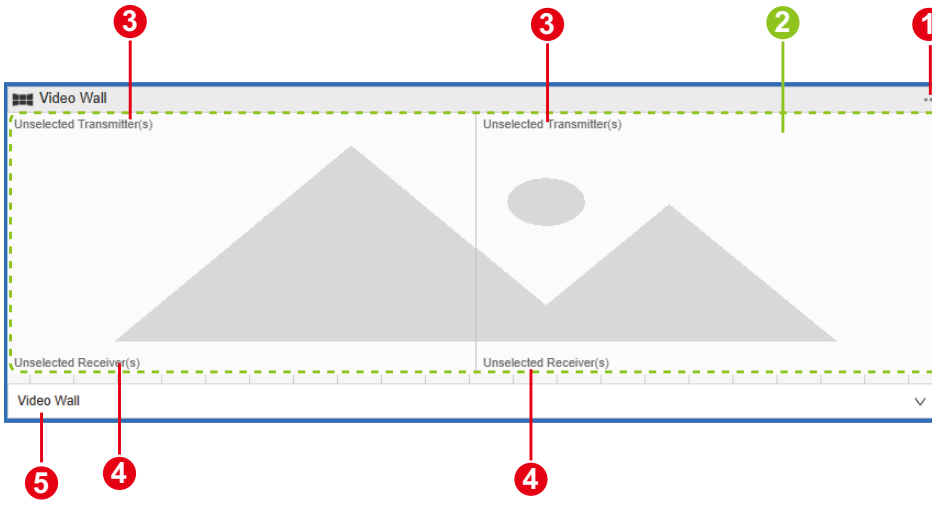
The receiver(s), the video wall(s), and the workstation(s) are presented as cards on the room arrangement area as the figures show below:

- **Receiver**



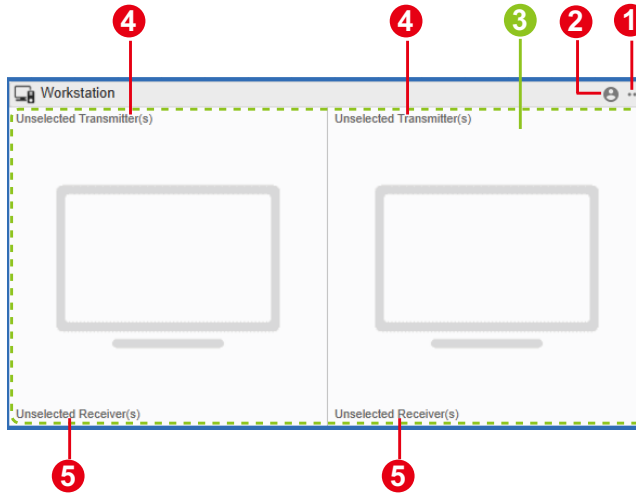
No.	Item	Description
1	more button	Click on the more button to open the configuration menu for more operations. See *Configuration Menu*, page 64 for details.
2	input source Tx ID	Displays the transmitter ID of the current input video source.
3	preview	Represents the video content on the receiver.
4	connected Rx ID	Shows the receiver ID.
5	operation mode	Select an operation mode for this receiver. Currently only single view mode is available.

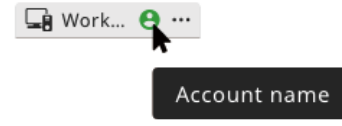
- **Video Wall**



No.	Item	Description
1	more button	Click on the more button to open the configuration menu for more operations. See *Configuration Menu*, page 64 for details.
2	preview	Represents the video content on the video wall.
3	input source Tx ID	Displays the transmitter ID of the current input video source.
4	connected Rx ID	Shows the receiver ID(s).
5	operation mode	Select an operation mode for your video wall. ◆ **Video Wall**: Select this option to set up a video wall. ◆ **Splitter**: Select this option to set up a display of identical content on multiple monitors.

- **Workstation**



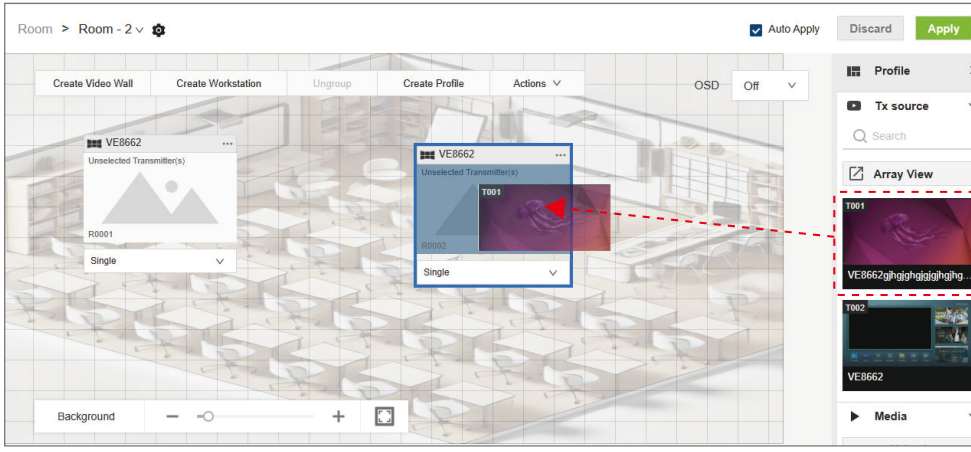
No.	Item	Description
1	more button	Click on the more button to open the configuration menu for more operations. See *Configuration Menu*, page 64 for details.
2	login status	Shows whether there is a user is logged in to this workstation. ◆ No user is signed into the workstation. ◆ A user is signed into the workstation. Move your cursor to the login status icon to see the logged-in user account. 

No.	Item	Description
3	preview	Represents the video content on the workstation.
4	input source Tx ID	Displays the transmitter ID of the current input video source.
5	connected Rx ID	Shows the receiver ID.

Assigning Sources

Follow the steps below to assign input sources:

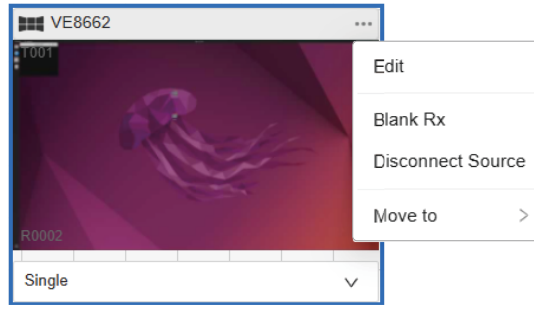
1. Identify the source to be assigned on the transmitter source list and the target receiver / video wall / workstation.
2. Select and drag the source video to the preview area of the target receiver / video wall / workstation.



Configuration Menu

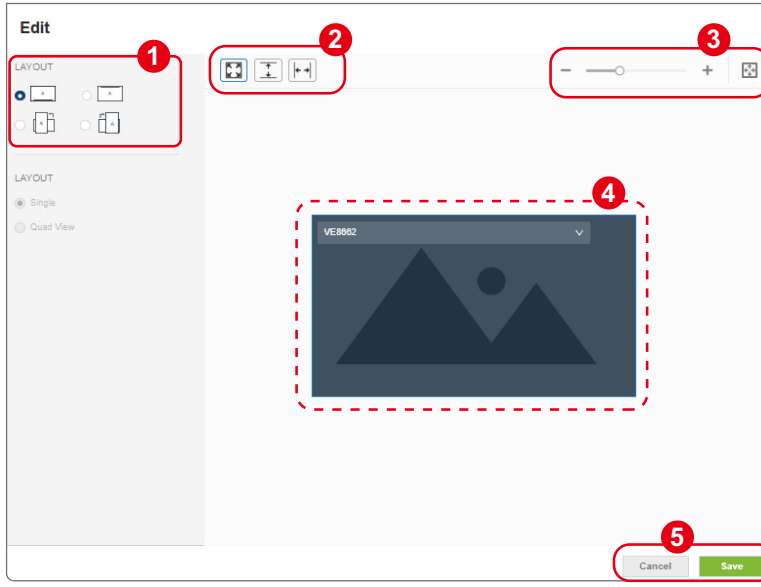
Click on the more button of the receiver / video wall / workstation card(s) to open the configuration menu for the following operations:

- 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.

You can make changed through the receiver **Edit** popup:

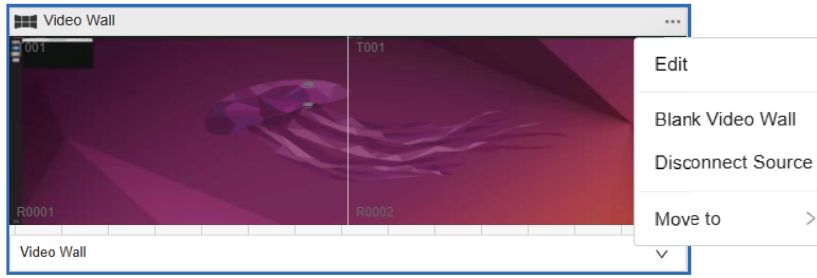


1. Select the display orientation.
2. Optionally use the buttons to resize the layout preview:

Item		Description
	fill screen	Makes the layout preview fit the entire preview area in this popup window.
	fit height	Fits the layout preview to the height of the preview area.
	fit width	Fits the layout preview to the width of the preview area.

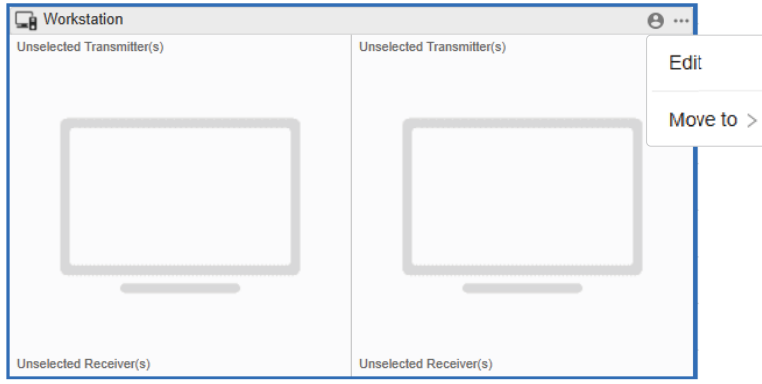
3. Optionally use the zoom slider to change the zoom level of the layout preview, and use the zoom to fit button to automatically resize the layout preview to fit the preview area in this popup window.
4. The layout preview help you visualize the configurations. From the drop-down menu, select the output receiver for the display monitor.
5. Click on **Save** button to create a video wall while **Cancel** to discard the settings.

- Video Wall



Item	Description
Edit	Open the Create Video Wall popup to make changes. See *Create Video Wall*, page 54 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.

- Workstation



Item	Description
Edit	Open the Create Workstation popup to make changes.See *Create Workstation*, page 56 for details.

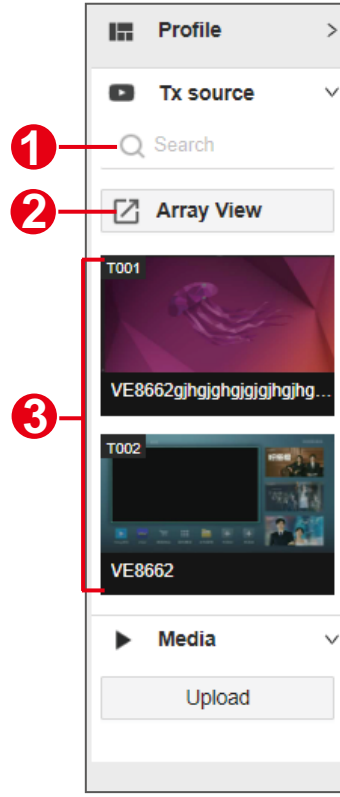
Item	Description
Move to	Move this workstation to other room. The available rooms is on the next option menu.

Source Panel Control

The source panel is located on the right side of a room. It contains the Profile list, the Tx source list, and the Media list. This section explains how to use the Tx source list and the Media list. For details on the Profile list, refer to *Profile Management*, page 71.

Tx Source List

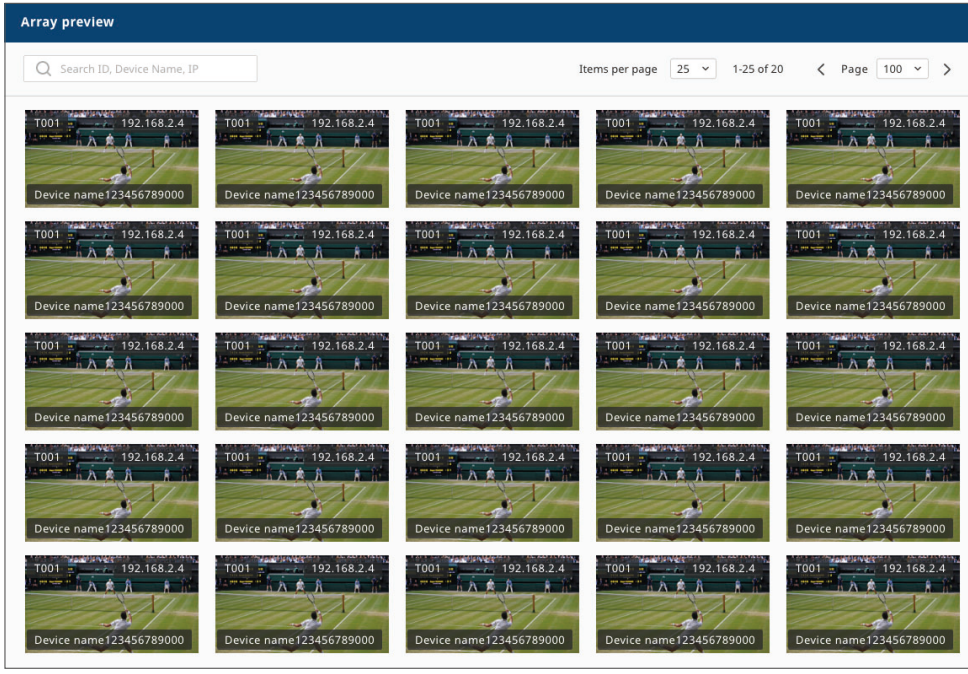
The Tx source list consists of three parts: the search bar, the transmitter list, and the array preview.



No.	Item	Description
1	Search bar	Enter the device ID or device name to search for a specific transmitter.
2	Array View	Opens a window to view all granted transmitters for this room.
3	transmitter list	Displays the granted transmitters for this room.

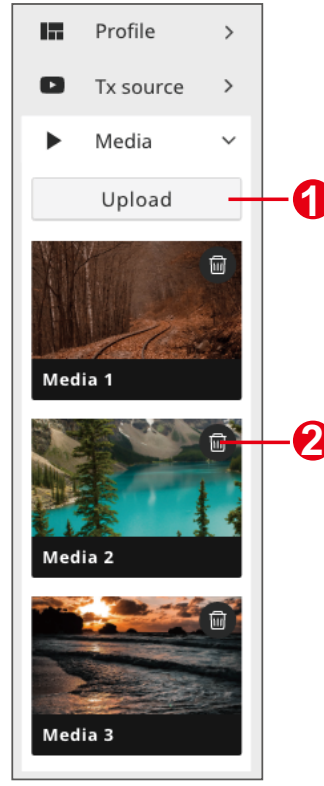
The video thumbnail preview in the transmitter list and Array View window displays a live video preview. Assign the video source by dragging the transmitter's video preview in transmitter list to the target receiver, video wall, or workstation. Release to complete the assignment.

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.



Media List

The **Media** list allows you to upload up to three images in .jpg or .png format, each with a maximum size of 5MB and a resolution between 1024 × 1024 and 4096 × 2160.



No.	Item	Description
1	Upload	Select an image from your PC and upload it. **Note:** The uploaded imaged(s) is shared across all rooms.
2	Delete	Remove the image.

Drag and drop an image onto the target receiver's preview area to assign it.

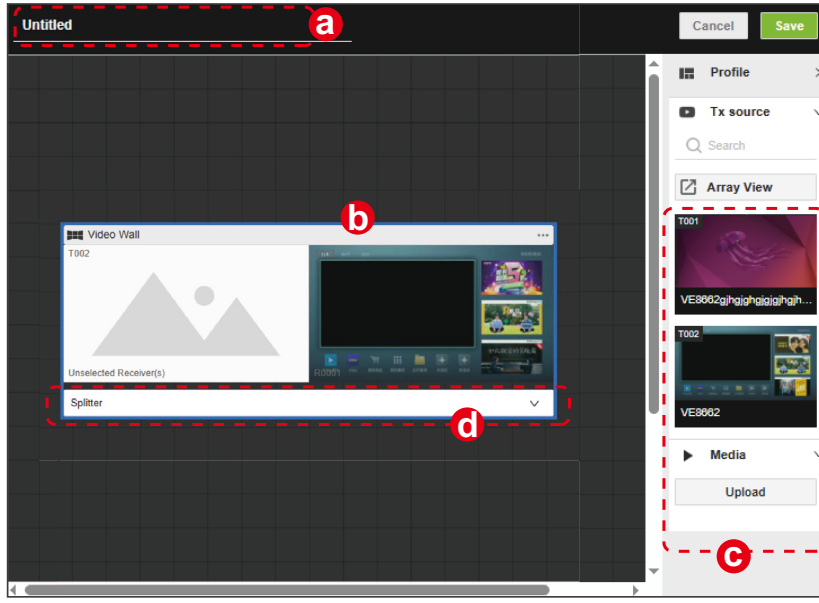
Profile Management

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:



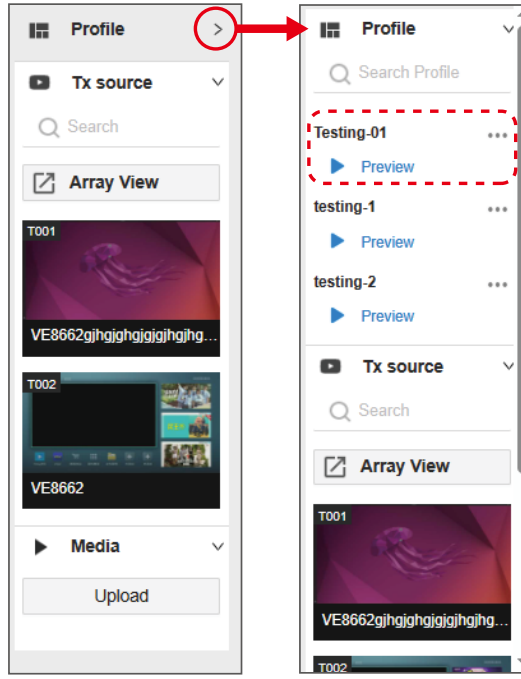
a) Enter a name for the profile.

b) Click to choose the receiver(s) / video wall(s) you wish to be in this profile.

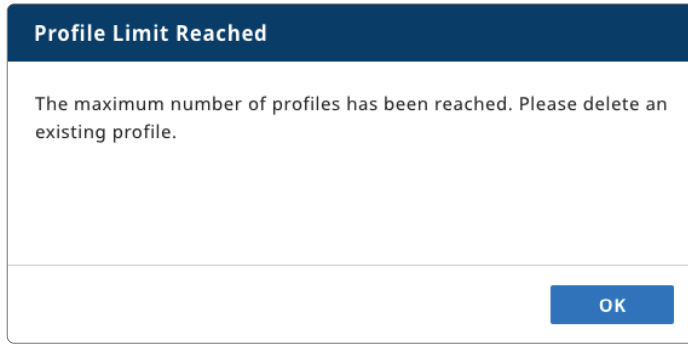
c) (optional) Drag and drop a source video / image from the source panel to assign it to the target receiver / video wall.

d) (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.



Each room supports up to 10 profiles. Once the limit is reached, a warning popup will appear. Delete at least one existing profile before creating a new one.

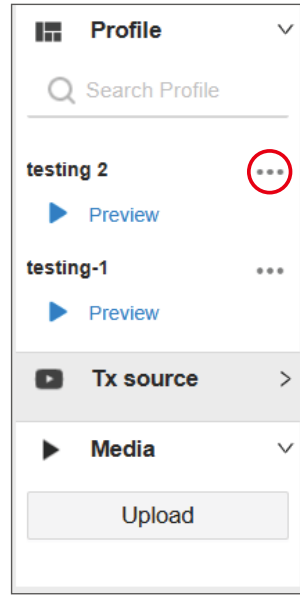


Note:
- A profile becomes invalid if its receiver(s) or video wall(s) are lost or deleted.
- A failed attempt to create a new profile may due to the receiver / video wall not having a video source from transmitters or HDMI local input.

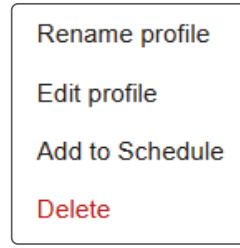
Editing or Deleting a Profile

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.

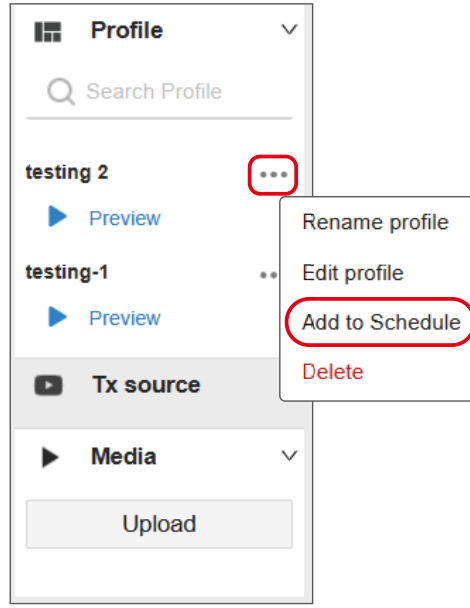


Item	Description
Rename Profile	Edit the profile name.
Edit Profile	Open the profile configuration screen to make changes.
Add to Schedule	Set the schedule for when the profile will be played. See *Setting Up Profile Schedules*, page 74.
Delete	Remove this profile. The system will ask if you would like to delete this profile. Click Delete to proceed or click Cancel to cancel.

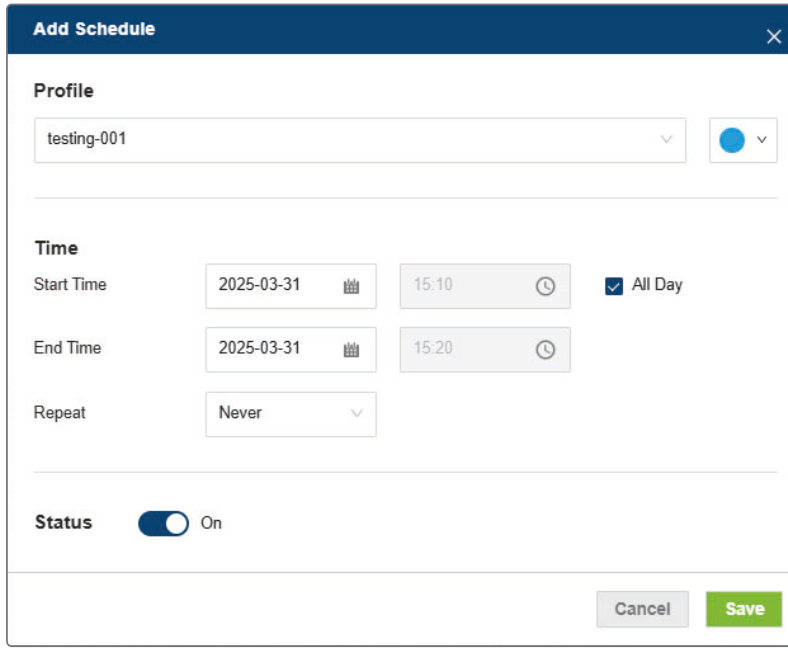
Setting Up Profile Schedules

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.



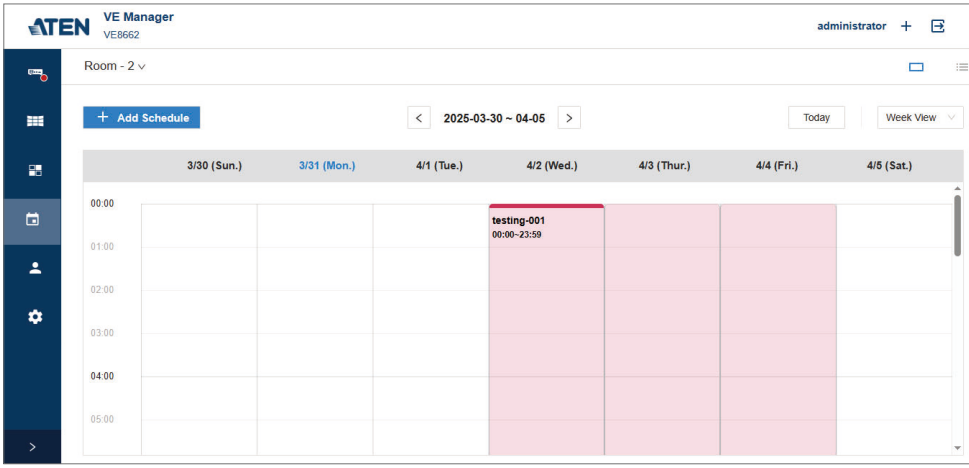
3. Configure the schedule as needed:



- **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 80.

4. Click **Save** to save the schedule and an example is shown below:

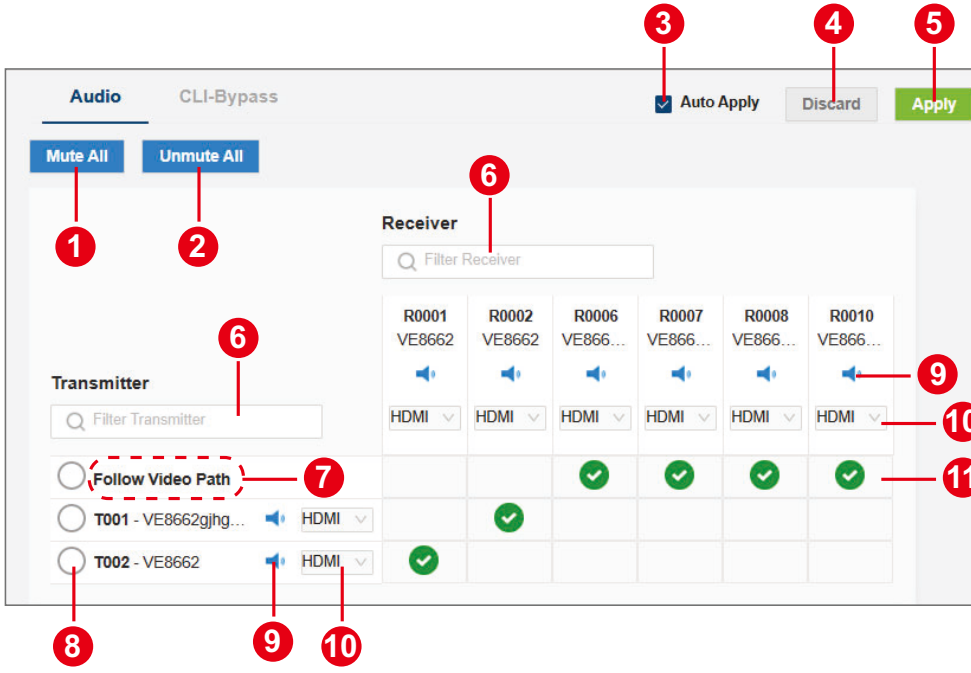


Matrix

The **Matrix** page allows administrators to efficiently control and configure matrix routing using two tab pages: **Audio** and **CLI-Bypass**. Use the routing table on each tab to configure and define which transmitter sends video or audio data to specific receiver(s) in an AV-over-IP system.

Audio

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

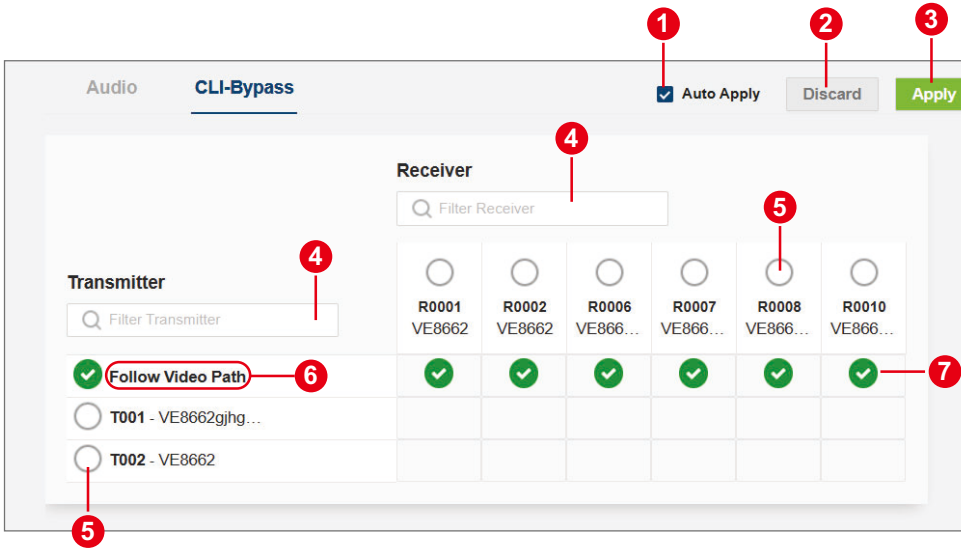


No.	Item	Description
1	Mute All	Mute all the transmitters and receivers.
2	Unmute All	Unmute all the muted VE8662 units.
3	Auto Apply	Apply the changes automatically.
4	Discard	Click **Apply** to save your changes while click **Discard** to cancel the settings.
5	Apply	

No.	Item	Description
6	filter transmitter / receiver	Enter the keyword to filter the transmitters / receivers.
7	Follow Video Path	Set the audio follow the same routing as the video signal.
8	select all	Click to select all the receivers to obtain the audio signal from this transmitter.
9	mute / unmute	Click on the button to mute or unmute the unit.
10	audio source	Select the audio source between **HDMI** and **Stereo**. The default setting is HDMI.
11	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.

CLI-Bypass

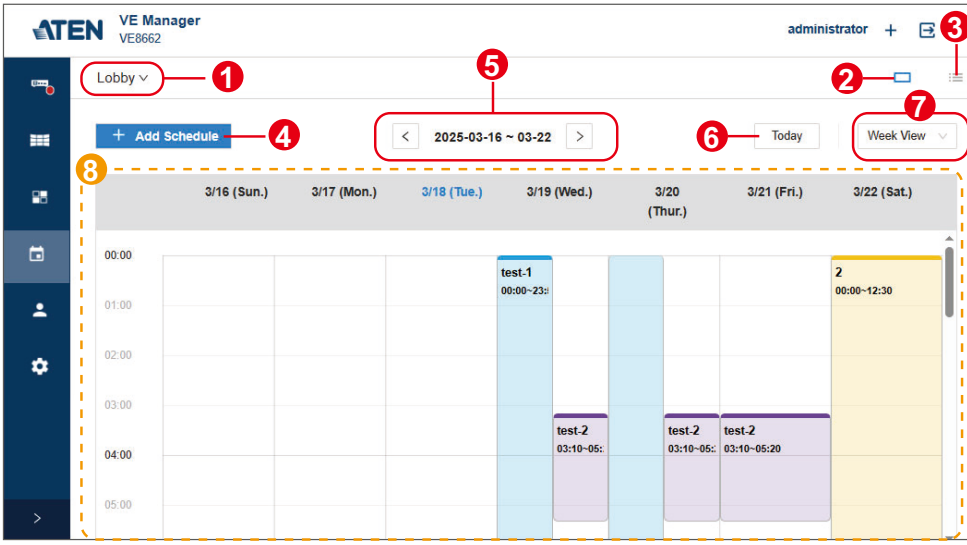
Through CLI-Bypass tab, administrators can assign a specific transmitter to one or multiple receivers for CLI command communication.



No.	Item	Description
1	Auto Apply	Apply the changes automatically.
2	Discard	Click **Apply** to save your changes while click **Discard** to cancel the settings.
3	Apply	
4	filter transmitter / receiver	Enter the keyword to filter the transmitters / receivers.
5	select all	Click to select all the transmitter / receivers to .
6	Follow Video Path	Enable CLI commands follow the same routing as the video signal.
7	crosspoint	On the graphical crossbar, simply click a crosspoint to enable the 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.



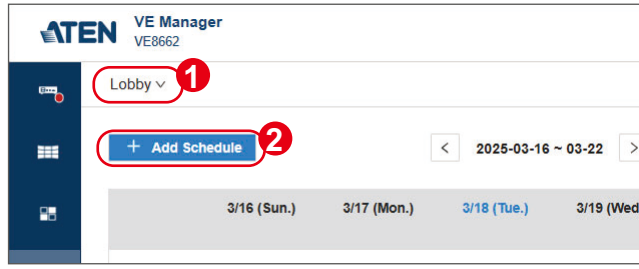
No.	Item	Description
1	room selection	Click to expand the drop-down menu that lists all the room options. Select the room you'd like to manage to switch to its schedule.
2	timeline view	Visualizes the timing and duration of the tasks.
3	list view	Displays the scheduled tasks as a list.
4	add schedule	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: ◆ in day view: Select the date to display the task(s) to be performed on the day. ◆ in week view: Select the range of dates by week to display the task(s) to be performed within the week.

No.	Item	Description
6	go to today button	Click on the today button to go back to today or the current week.
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.

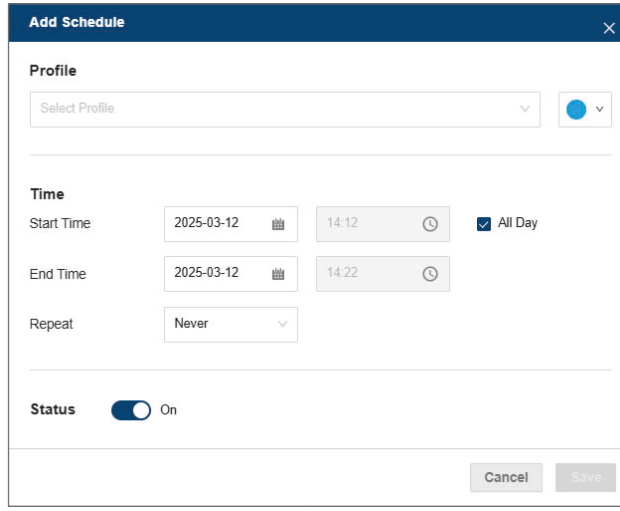
Create a Scheduled Task

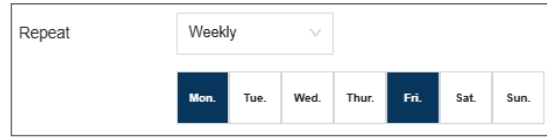
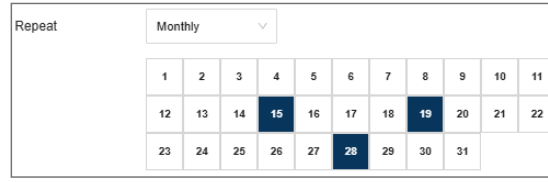
To create a scheduled task, do the following:

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:

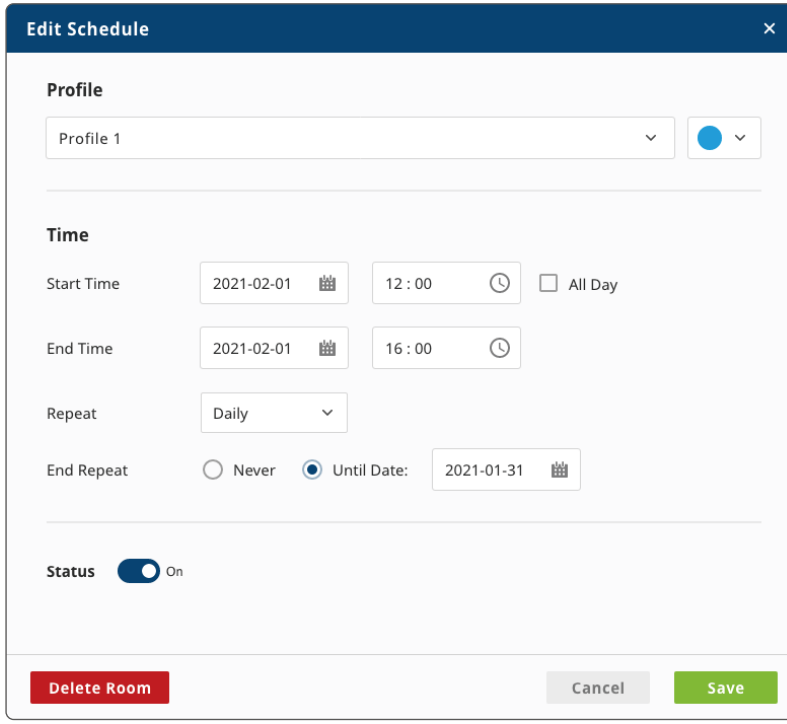


Item	Description
select Profile	Select a profile for this task to play. See Profile Management for how to manage the profiles.
color-code	Assign a color label to this task. Use different colors to tell the tasks apart.
start time / end time	Sets the date and time the task will begin and end.
all day	Check the All Day checkbox to play this task all day long.
repeat	Performs the task repeatedly at the scheduled times. The options to run the recurring task are: ◆ never: The task is executed only one time. ◆ daily: The recurring task is executed everyday. ◆ 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.  ◆ monthly: The recurring task is executed on a monthly basis. Set the particular dates this task recurs. 
end repeat	Sets the due date for this task. This setting is only available when **Repeat** is set as daily or weekly or monthly. ◆ Never: Enable this option to continue repeating indefinitely. ◆ Invalid date: Sets the date that the task will no longer run.
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 form 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 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 three user roles with different levels of authority. Only the user role designated as an administrator can access the **User** page to create the other two roles: **Super User** and **User**.

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

Table 1: Access Permissions

User Role	Access Permissions					
	Device	Room	Matrix	Schedule	User	Maintenance
User	no access permissions					
Super User		✓		✓		
Administrator	✓	✓	✓	✓	✓	✓

Table 2: Resource Access Levels

User Role	Resource Access		
	Transmitter	Room	Profile
User	Limited Access	Limited Access	Limited Access
Super User	Limited Access	Limited Access	Limited Access
Administrator	Full Access	Full Access	Full Access

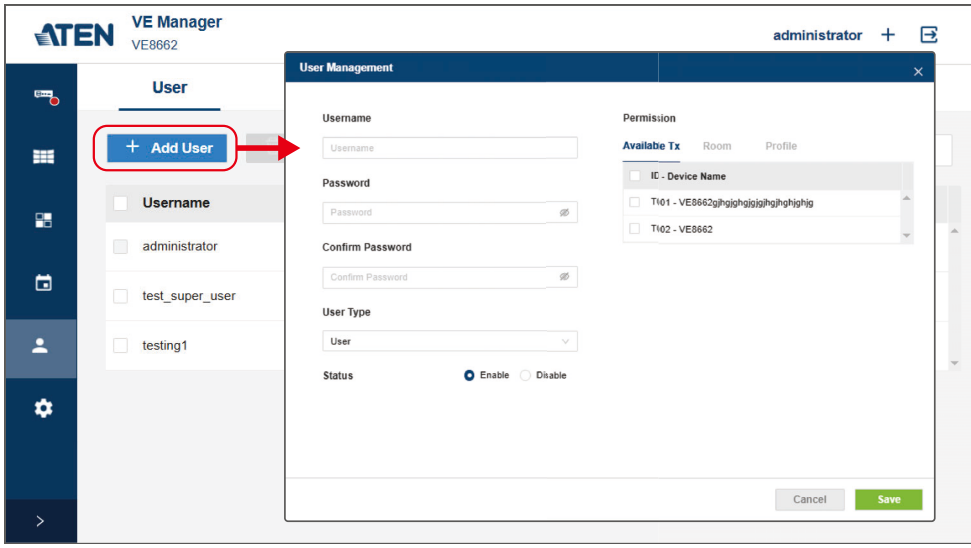
Note: Accounts with the **User** role are restricted from accessing VE Manager.

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. Choose the account status:
   - **Enable**: Activate the account.
   - **Disable**: Deactivate the account.
4. Configure the account permissions.
   - **Available TX**: Select the transmitter(s) that this account can access for its video source.
   - **Room**: Select the room(s) that this account can access.
   - **Profile**: Select the profile(s) associated with the accessible room(s) that this account can apply.

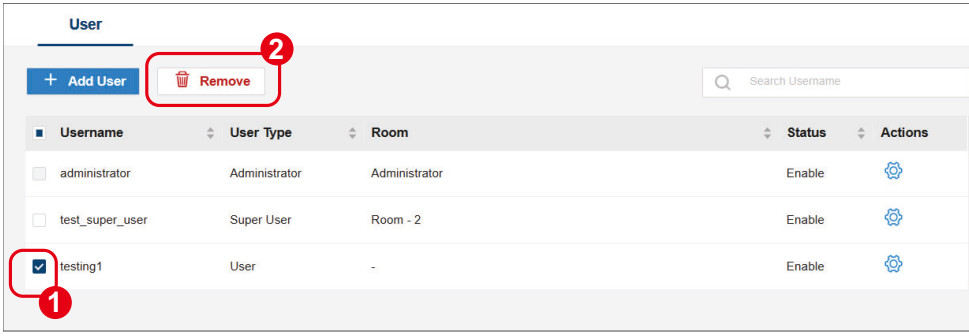
Note: **Administrators** have access to all transmitters, rooms, and profiles, while **Super Users** and **Users** have limited access to the assigned transmitters, rooms, and profiles.

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

Editing or Deleting an Existing User Account

■ **Remove**

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:
- Clicking the **Remove** button will immediately delete the account(s) without confirmation.
- The default administrator account cannot be deleted.

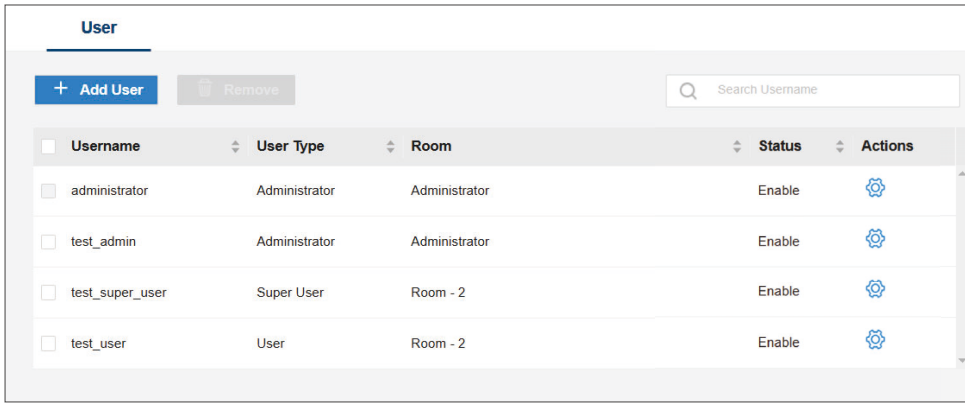
■ **Edit**

To edit an existing account:

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

User Account List

The user account list itemizes all the user accounts with the following information:



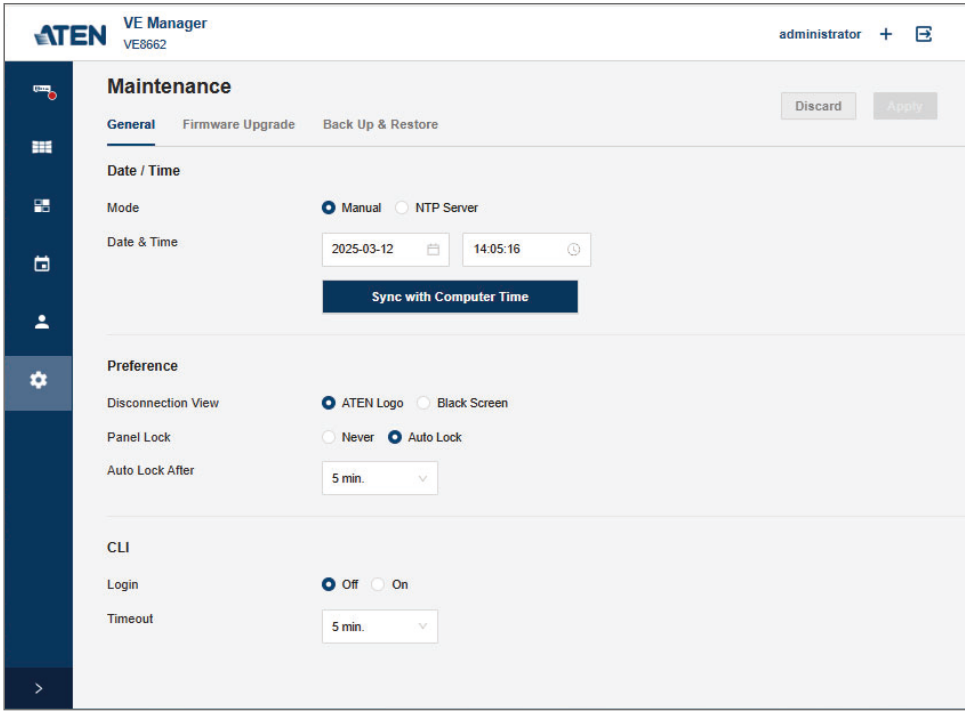
Item	Description
Username	The name of the account
User Type	The type of the user role
Room	The granted room(s) the account is allowed to access
Status	Whether the account is active or deactivated
Actions	The settings button to open the **User Management** popup

Maintenance

The Maintenance page allows you to specify device date and time, configure settings of connected VE8662 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.



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

Date & Time

Settings	Description
Mode	Select between the two modes: ◆ Manual: Set the date and time manually. By selecting Manually, the function Date & Time below becomes available. Choose the date and time from the date picker and time picker. ◆ NTP Server: Set the Network Time Protocol (NTP) to synchronize the clock between the unit and the server.
Date & Time	Set the date and time from the date picker and time picker. **Note:** The function is only available when Manual mode is enabled.
Sync with Computer Time	If you wish to synchronize the time with the computer's time, click the button to process the settings.

Preference

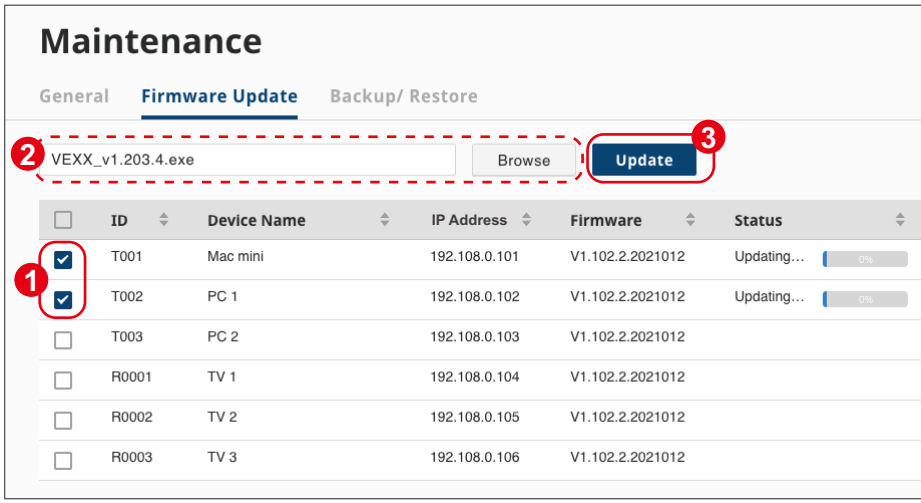
Settings	Description
Disconnection View	Set the screen to be displayed when input video source is disconnected.
Panel Lock	Select **Auto Lock** to lock the panel control of all the VE8662 units.
Auto Lock After	Specify the timeout duration for panel lock.

CLI

Settings	Description
Login	Select **On** to enable remotely logging in to VE8662 from a computer using RS-232 / Telnet interface.
Timeout	Specify the idle time that causes the CLI session closed.

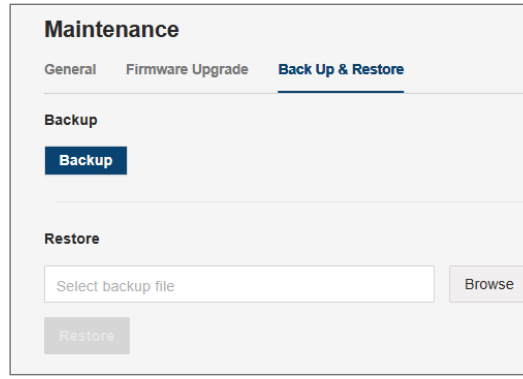
Firmware Upgrade

To upgrade the VE8662 device firmware, follow the steps below.



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.

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Chapter 5
Workstation OSD Control

Overview

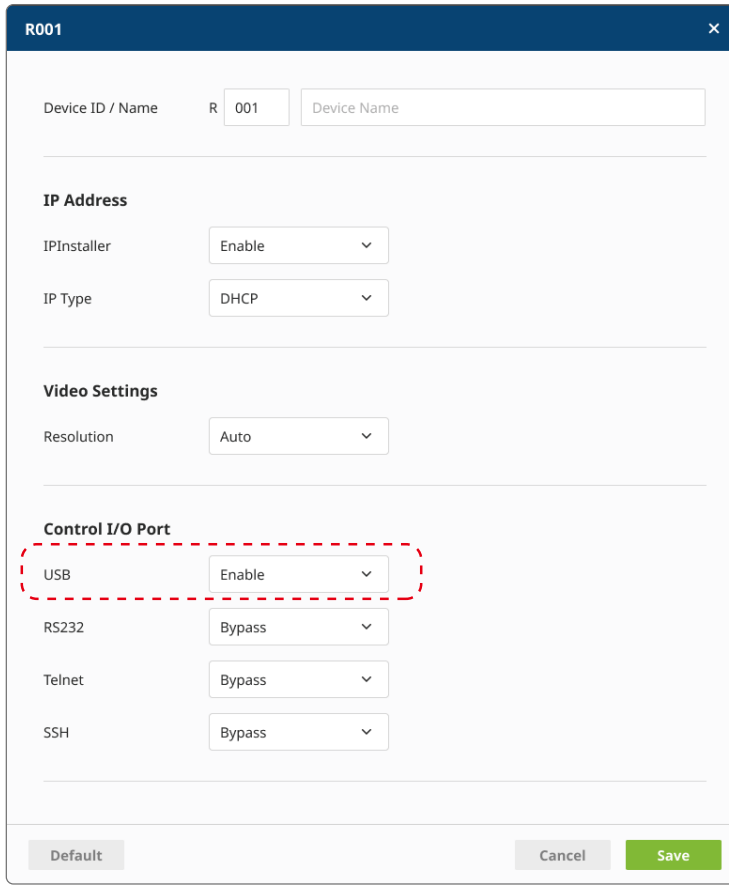
The workstation OSD Control interface allows users to manage and switch video sources within their granted rooms. Users can interact with granted transmitters, receivers of workstations, and apply granted profiles based on their account permissions.

Note: An account with the **User** role, which is restricted from accessing VE Manager, can log in to workstation OSD control interface to manage and operate the assigned room.

Prerequisite

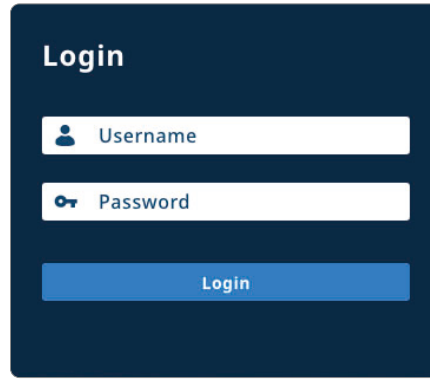
To enable the OSD control interface on a workstation, the following steps should be completed in advance:

1. Connect a keyboard, mouse, and monitor to the target receiver.
   See *Connecting VE8662*, page 11.
2. Log in to **VE Manager**, navigate to the corresponding room, and select the target receiver to set it as a workstation.
   See *Create Workstation*, page 56 and *set as workstation*, page 59 for how to create a workstation.
3. On the **Device** page of VE Manager, open the target receiver's edit popup and enable its USB function.



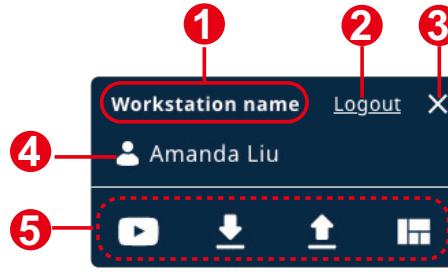
Logging In

Users must log in with their credentials to access workstation OSD control interface. To log in to a workstation, enter your username and password, and then click **Login** on the login screen.



OSD Control Operation Panel

After successfully logging in to the workstation OSD control interface, an operation panel appears, as shown in the figure below:

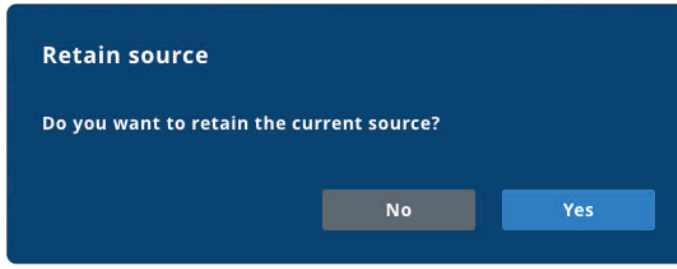


No.	Item	Description
1	workstation name	Displays the name of the currently logged-in workstation.

No.	Item	Description
2	Logout	Logs out the account. Once you log out, the session ends which means this workstation will retrieve all pushed sources, and remains the current workstation layout.
3	close	Hides the workstation OSD control operation panel. The function works similar to using the hotkey, Ctrl + Ctrl.
4	account	Displays the currently logged-in user account.
5	toolbar	The toolbar offer 4 buttons which deliver the following function: ◆ **Source**: Expands the source panel ◆ **Pull**: Expand the pull control panel ◆ **Push**: Expand the push control panel ◆ **Profile**: Expand the profile management panel

After logging in, use the default hotkey **`Ctrl`** + **`Ctrl`** to hide/show the OSD control screen. The workstation displays retain the previous state before being hidden.

If a workstation already has an active source before logging in, a prompt will appear asking whether to continue using the existing source:



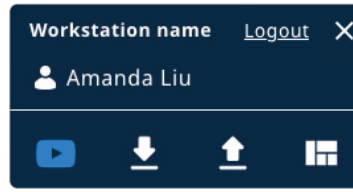
Click **Yes** to continue using the current source. Click **No** to blank and disconnect the source.

Workstation Receiver Bar

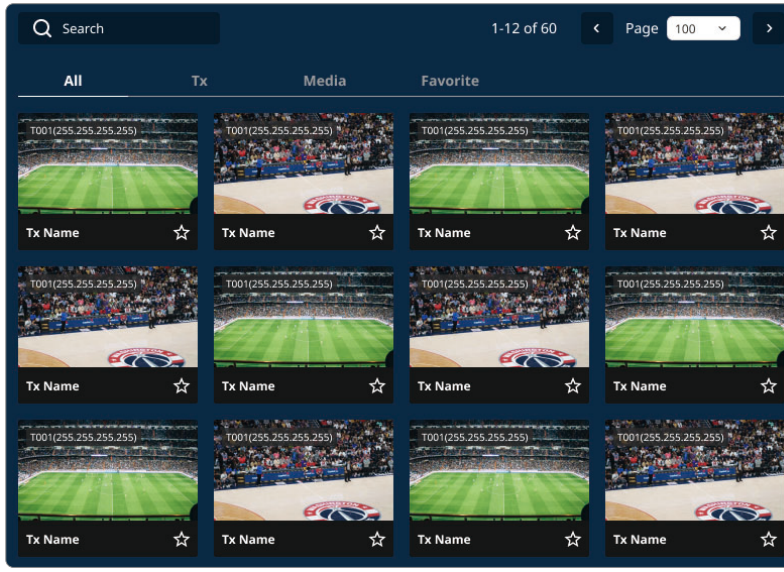
The workstation receivers bar displays all the authorized receivers (Rx) that are assigned to the workstation. Each receiver is listed in order, and the corresponding receiver tiles are shown at the bottom of the OSD control screen. Users can interact with these tiles to select the receiver for source switching and management.

Source

Click the **Source** button to expand the source panel and display the list of receiver tiles at the bottom of the OSD control screen.



Source Panel



The granted sources are listed on the source panel in order based on the transmitter ID. The source panel contains the following:

Item	Description
All	Lists all authorized sources, including transmitter video sources and images from the Media list.
Tx	Lists all authorized transmitter video sources.
Media	Lists all media sources. **Note:** Media sources are accessible by all users.

Item	Description
Favorite	Click the star icon to add a source to **Favorites**. The **Favorite** tab only shows sources that have been added.
Search bar	Filters results based on the input transmitter device name or device ID.

Source Switching

To switch the source that displays on the workstation receiver:

1. Select the Receiver (Rx):

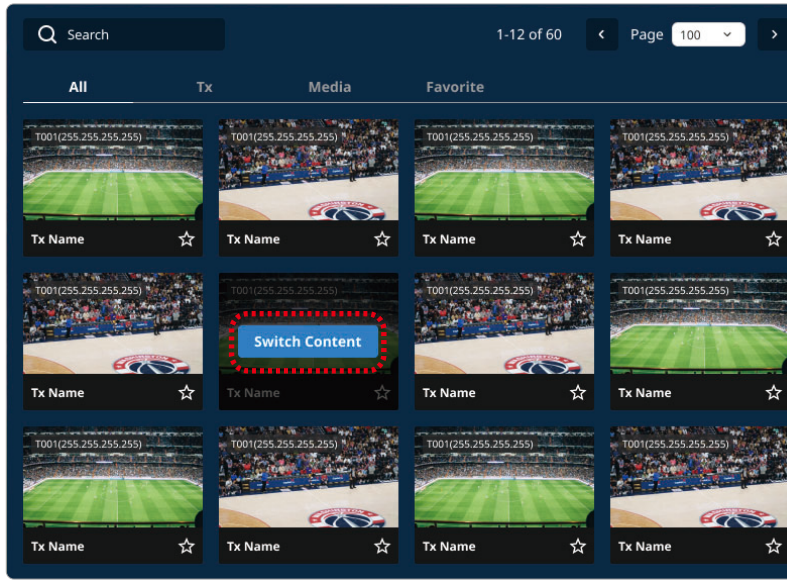
   Click on the desired receiver display from the workstation receiver bar.

2. Select the Source:

   Click to select the source you need from the source panel.

3. Click the **Switch Content** Button:

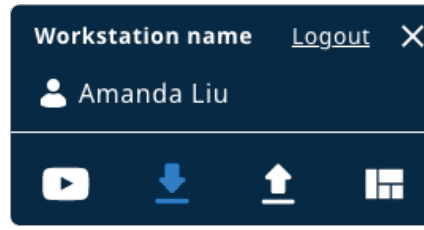
   After selecting the receiver, click the- button to change the source.



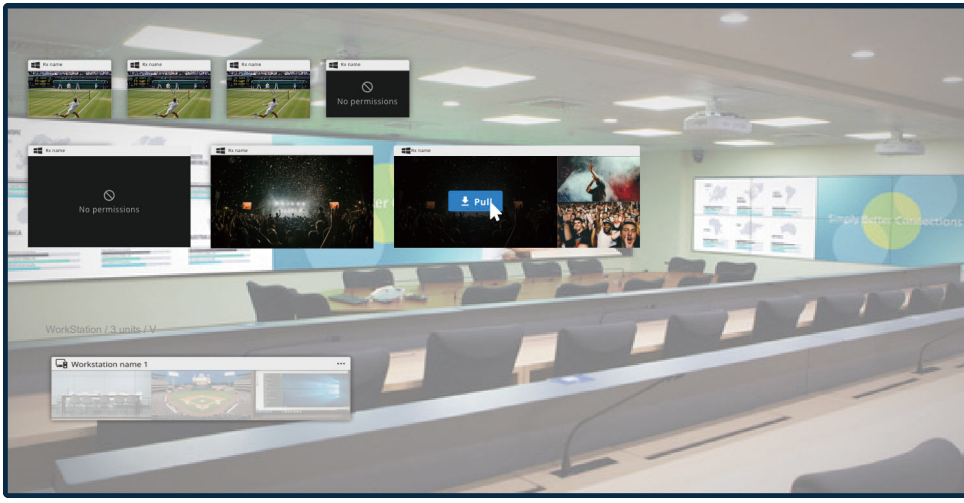
The source will be switched, and the receiver will display the new source.

Pull (Acquiring a Source)

Pull is used to acquire the available source from other receivers or workstations belonging to this room.



Click the **Pull** button to expand the pull control panel which displays the receivers and workstations in this room. If there's the desired source, you can pull it to the selected receiver listed in the receiver bar at the bottom of the OSD control screen.



Note:
- Unavailable sources are covered with a white translucent overlay.
- The video source to be acquired must be from the available transmitters. Unauthorized sources appear as **No Permission**.

Follow the steps for pulling a source.

1. Select the Rx Display:

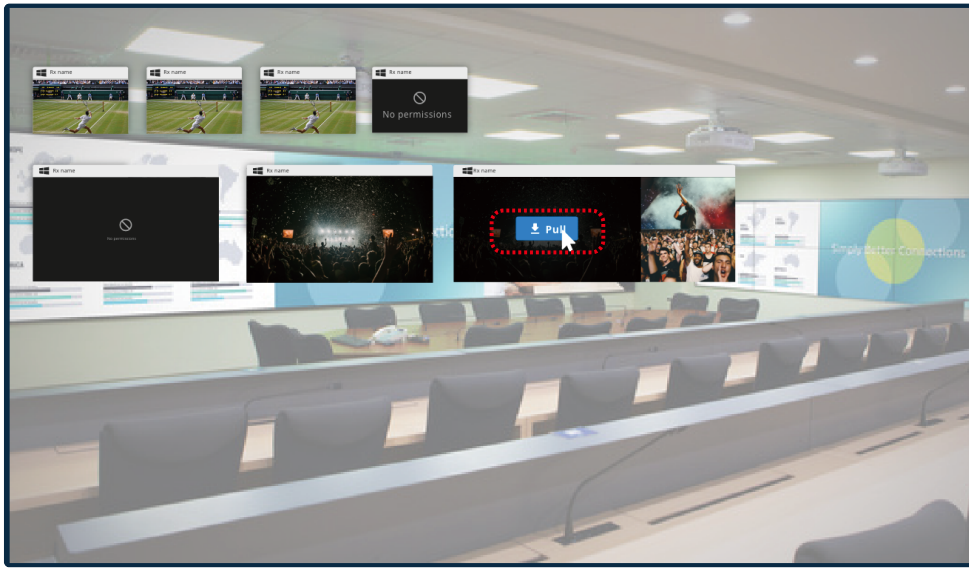
   Click on the desired Rx display at the bottom of the OSD control screen.

2. Choose the Desired Source:

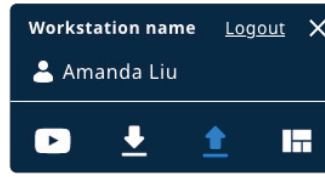
   Select the source you want to acquire from the available options.

3. Click the **Pull** Button:

   Click the **Pull** button to transfer the selected source to the OSD control screen.



Push (Sending a Source)



Push is the process of sending a source, such as video or media, obtained from the receivers in the workstation receiver bar, to another receiver display on the **Push** control panel. It allows content to be shared with designated receivers, and users can accept or reject incoming sources via notifications.

Steps to Push a Source

1. Select the Rx Display:

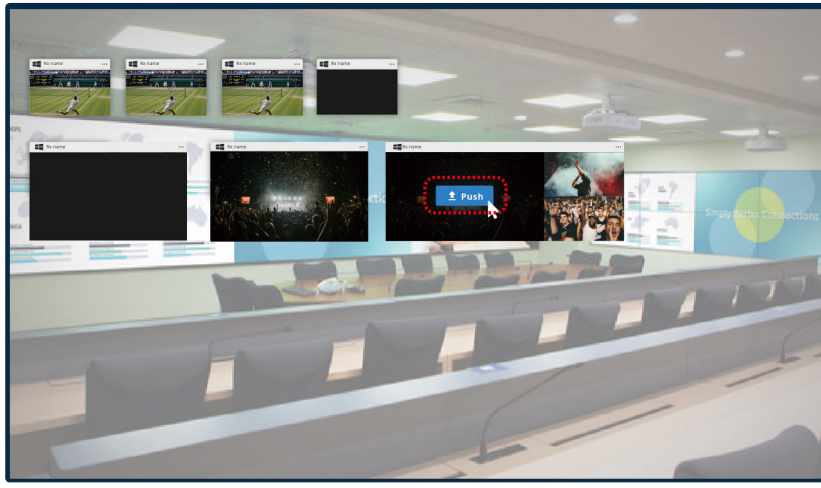
   From the bottom Rx bar, click on the desired Rx display that contains the source you want to send (the default is the current Rx).

2. Choose the Receiver to Push the Source To:

   Select the receiver display in the Push panel where you want to send the source.

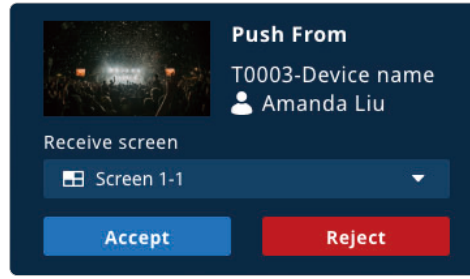
3. Click the Push Button:

   Click the **Push** button to send the selected source to the specified Rx.



Push Notification

When a pushed source is sent to a receiver that is logged in, the corresponding receiver OSD will display a notification prompting the user to accept or reject.

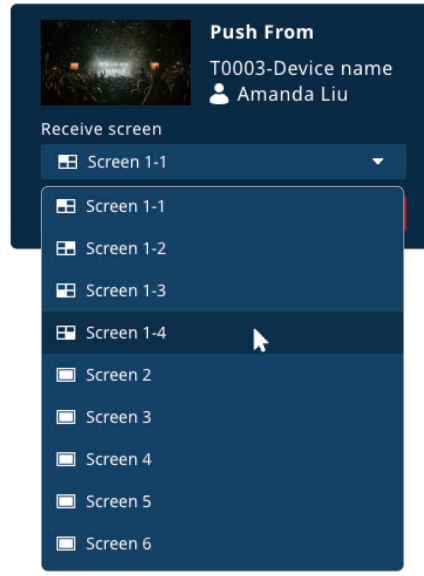


If the receiver is not logged in, the source will be switched automatically.

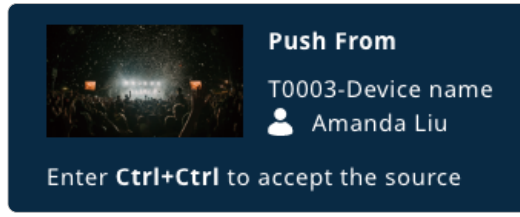
Note: You cannot push a source that has been pushed to you by another user.

Click **Accept** to apply the source while click **Reject** to close the notification. If no action is taken within 3 minutes of receiving the notification, it will automatically be rejected and closed.

If you want to designate the receiving screen, select it from the drop-down menu before accepting the pushed source.

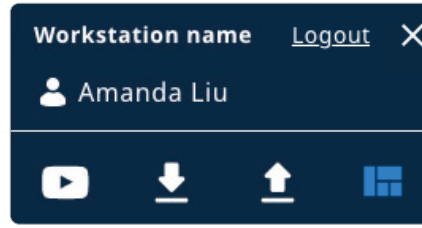


If you receive a push notification while the OSD control screen is hidden, use the hotkey **`Ctrl + Ctrl`** to open the OSD control screen, then decide whether to accept the pushed source.

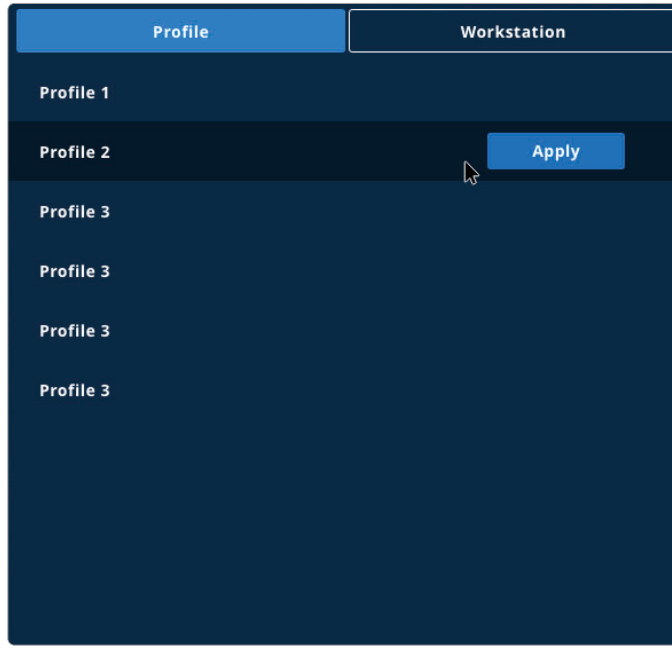


When multiple push sources are received, they will be listed in the notification panel, with a maximum of 15 entries. Once this limit is exceeded, the oldest notifications will be removed to make room for new ones.

Profile

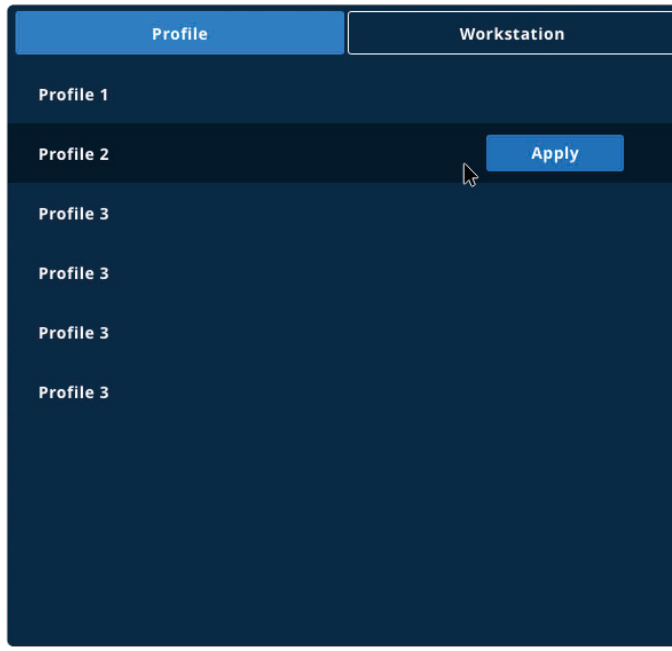


Users can view and apply granted profiles associated with the current room. Click the **Profile** button to expand the profile control panel, which includes two tabs: **Profile** and **Workstation**.



Profile Tab

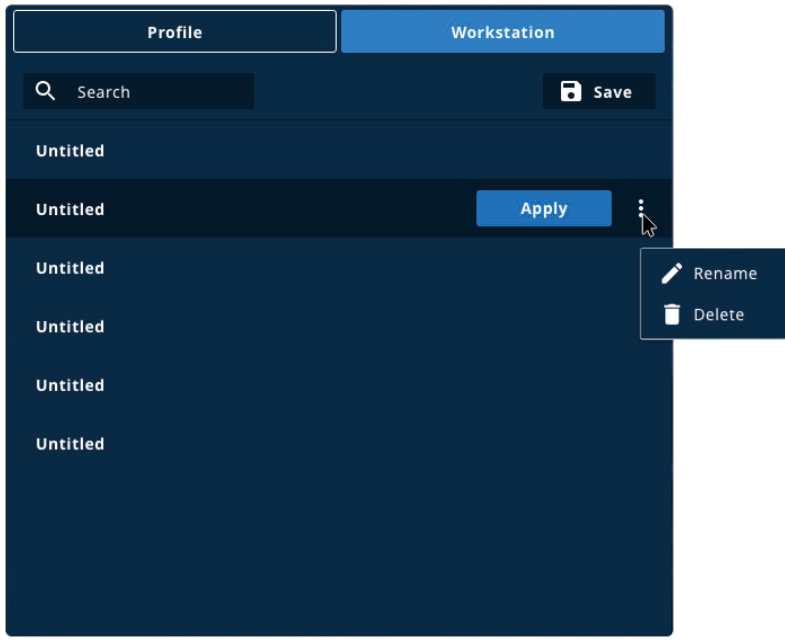
The **Profile** tab displays only the profiles that match the user's access permissions. Click **Apply** to activate the selected profile.



- The profiles listed in this tab are configured via VE Manager (web browser interface). These profiles are assigned to specific users during the user creation or editing process.
- Profiles on the Profile tab can only be modified or deleted through VE Manager. On the workstation, users can only apply them.

Workstation Tab

The **Workstation** tab lets users create and manage profiles locally on the workstation, with each profile linked to both the workstation and the user.



- Profiles listed on Workstation tab are created directly on the workstation. Click the **Save** button in the top-right corner to create a new profile.
- The profiles on the **Workstation** tab cannot be modified or deleted via VE Manager. They can only be applied, renamed, or deleted on the workstation.
- The profile records the transmitter-receiver pairing of the logged-in workstation at the time of creation. After creation, only the profile name can be changed. The source pairing remains fixed.
- Workstation profiles are bound to both the specific workstation and the user who created the profiles. To apply the workstation profile successfully, use the same user account to log in to the same workstation.

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Appendix

Safety Instructions

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

International

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

North America

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

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

Function	VE8662
Video Input	
Max. Distance	5m
Impedance	100 Ω
Interfaces	1 × HDMI Type A Female (Black)
Video Output	
Interfaces	1 × HDMI Type A Female (Black)
Impedance	100 Ω
Max. Distance	5m
Video	
Max. Data Rate	Average: 20–25Mbps
Compliance	HDMI (4K) HDCP2.3 & HDCP2.2 Compatible
Max. Resolutions / Distance	Up to 4K@100m (Cat 5e/6, point to point) **Note:** True 4K supported: 3840 × 2160 @ 60Hz (4:4:4) only
Video Compression	H.265 Codec Latency: 3–5 frames
Audio	
Input	1 × HDMI Type A Female (Black) 1 × Mini Stereo Jack Female (Green)
Output	1 × HDMI Type A Female (Black) 1 × Mini Stereo Jack Female (Green)
Connectors	
Unit To Unit	1 × RJ-45 Female (with PoE)
Power	1 × DC Jack (Black) with locking or 1 × RJ-45 (Power Over Ethernet, PoE)
Control	

Function	VE8662	
RS-232	Connector	1 × Terminal Block, 3 pole
	Baud Rate	19200
	Data Bits	8
	Stop Bits	1, no parity and flow control
USB Channel	1 × USB Type B Female (Host) 2 × USB Type A Female (Device)	
Pushbuttons		
Operating Mode Selection	3 × Push buttons for LCM operation	
Switches		
Selection Mode	1 × Slide Switch—T (Be a Transmitter) / R (Be a Receiver) selection	
LEDs		
Power	1 × DC in LED (Green) 1 × PoE LED (Green)	
Power Consumption	DC12V; 4.79W; 22BTU/h DC12V; 4.98W; 45BTU/h **Note:** ◆ The measurement in Watts indicates the typical power consumption of the device with no external loading. ◆ The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.	
Environmental		
Operating Temperature	0–40°C	
Storage Temperature	-20–60°C	
Humidity	0–80% RH, Non-Condensing	
Physical Properties		
Housing	Metal	
Weight	0.51 kg (1.12 lb)	

Function	VE8662
Dimensions (L x W x H) with bracket	14.02 × 12.30 × 3.00 cm (5.52 × 4.84 × 1.18 in.)
Dimensions (L x W x H) without bracket	13.60 × 10.10 × 2.90 cm (5.35 × 3.98 × 1.14 in.)

ATEN Warranty Policy

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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Released: 2025-04-14

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