VEO-SWC45 &
VEO-SWC45TH / VEO-SWC45TU

SWITCHERS

4K Professional Presentation and Conferencing Switcher

USER MANUAL

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1. PRECAUTIONS

1.1 Important Remark

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING: SHOCK HAZARD - DO NOT OPEN

AVIS: RISQUE DE CHOC ÉLECTRIQUE - NE PAS OUVRIR

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING (If applicable): The terminals marked with symbol of "⚡" may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the use of ready-made leads or cords.

WARNING: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

WARNING: A device with Class I construction shall be connected to a mains socket-outlet with a protective earthing connection.

WARNING: This product must not be discarded, under any circumstance, as unsorted urban waste. Take to the nearest electrical and electronic waste treatment centre.

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1.2 Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this device near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other device (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the device.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug the device during lightening sorts or when unused for long periods of time.
13. Refer all servicing to qualified personnel. Servicing is required when the device has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the device, the device has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. Disconnecting from mains: When switching off the POWER switch, all the functions and light indicators of the unit will be stopped, but fully disconnecting the device from mains is done by unplugging the power cable from the mains input socket. For this reason, it always shall remain easily accessible.
15. Equipment is connected to a socket-outlet with earthing connection by means of a power cord.
16. The marking information is located at the bottom of the unit.
17. The device shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on device.

1.3 Cleaning

⚠️ **Clean the unit with a soft, dry clean cloth or slightly wet with water and neutral liquid soap only, then dry it with a clean cloth. Be careful that water never gets into the unit through any hole. Never use alcohol, benzine, solvents or abrasive substances to clean this unit.**

NEEC AUDIO BARCELONA, S.L. accepts no liability for any damage that may be caused to people, animal, or objects due to failure to comply with the warnings above.

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2. WARRANTY & ENVIRONMENT

Thank you for choosing our Ecler VEO-SWC45 / VEO-SWC45TH / VEO-SWC45TU ! We greatly value your trust.

It is **VERY IMPORTANT to carefully read this manual and to fully understand its contents before any connecting takes place** in order to make the best use of this equipment, as well as to get the best performance from it.

To ensure optimal operation of this device, **we strongly recommend that its maintenance be carried out by our authorised Technical Services.**

All ECLER products are covered by warranty, please refer to www.ecler.com or the warranty card included with this product for the period of validity and conditions.

Ecler is truly committed with the environment and planet sustainability, energy saving and CO₂ emission reduction. Recycling materials and using non-contaminant components are also top priorities in our green crusade.

Ecler has deeply evaluated and analyzed the environmental impacts of all the processes involved in the production of this product, including packaging, and has alleviated, reduced and/or compensated for them.

3. PACKAGE CONTENTS

- 1 x VEO-SWC45.
- 3 x Antenna (Not pre-mounted to avoid damages)
- 2 x Detachable mounting ears.
- 4 x Screws.
- 2 x 3-pin Euroblock connectors.
- 1 x 6-pin balanced Euroblock connector.
- 1 x 12VDC International Power Supply.
- First Steps Guide.
- Warranty card.

4. DESCRIPTION and FEATURES

VEO-SWC45 is a professional 4K video conferencing and presentation switcher designed for hybrid -wired and wireless- connectivity. It features two HDMI® outputs, advanced display management and USB ports for integrating video conferencing systems with intelligent camera switching. It supports wireless presentation via Chromecast, Miracast, Airplay, the VEOShare application and 4K accessories such as VEO-SWC45TH and VEO-SWC45TU for HDMI® and USB-C connections. The main HDMI® output supports up to 4K/60Hz and features a balanced stereo audio extractor with Euroblock connector. It includes a built-in Web GUI interface for configuration and control, plus GPI, RS-232 and TCP/IP via two RJ-45 ports with independent LAN connections. It allows up to five devices to be displayed simultaneously in multi-view format and supports up to 15 additional participants. With HDCP 2.2 and PoE+ support, the VEO-SWC45 delivers a powerful, scalable solution for modern presentation and conferencing needs.

4.1 Main Features

- BYOM presentation switcher with wireless multi-format connectivity.
- Support for HDMI®. 18Gbps 4K UHD 60Hz 4:4:4 video output as specified in HDMI® 2.0b.
- Support for standard wireless mirroring protocols like Airplay, Chromecast, Miracast, and VEOShare application for a Full HD video content sharing.
- Plug-and-play VEO-SWC45TH and VEO-SWC45TU HDMI® and USB-C wireless transmitters for up to 4K UHD video content sharing, including customizable auxiliary function buttons.
- Support for up to two USB video conferencing cameras with smart switching feature between local and wireless host devices via USB Type-A and Type-C connectors.
- Support for interactive touchback function on both wired and wireless connections for interactive screens, whiteboards, and live annotation tools.
- Dual HDMI® video outputs with dedicated screen management for mirrored screen sharing or assigning local and remote video conference participants.
- Support for up to 5 simultaneous split-screen presentations and up to 15 participants on hold.
- Support for main screen content sharing to other user's local displays.
- Customizable background and font colour for the home screen page.
- Dual RJ-45 ports for independent network connections with extra security layers for an encrypted wireless transmission.
- Stereo analog audio extraction via a balanced Euroblock connector.
- HDCP 2.2 compliant.
- Control options include front panel buttons, GPI, RS-232, TCP/IP Remote Control, and WebGUI.
- Support for PoE+ function.

4.2 Optional Accessories

Wireless transmitters: VEO-SWC45TH and VEO-SWC45TU, used for plug & play wireless mirroring from computers with macOS or Windows operating systems to display screens.

- **VEO-SWC45TH** is a professional 4K HDMI® wireless transmitter for screen mirroring in 4K resolution from a computer or media player to the VEO-SWC45 switcher. Once the device is paired with a VEO-SWC45 unit, the 3 available buttons will allow the user to start and stop a given transmission. Two of the buttons are customizable.

- **VEO-SWC45TU** is a professional 4K USB-C wireless transmitter for screen mirroring in 4K resolution from a computer or media player to the VEO-SWC45 switcher. Once the device is paired with a VEO-SWC45 unit, the 3 available buttons will allow the user to start and stop a given transmission. Two of the buttons are customizable.

5. INSTALL & CONNECT

5.1 Antenna placement

⚠️
- The antennas should be **oriented vertically**, so perpendicular to the ceiling and parallel to the walls.

- The antennas **should be installed far enough (at least 50cm/1.6ft) from metallic surfaces** to avoid unwanted reflections **and far enough (at least 1m/3.3ft) from other radio equipment that operates in the same frequency range**, e.g. other WiFi access points, cordless telephone, microwave ovens, etc. It is also best to install antennas at least 15 cm (6 inches) from concrete walls.

- The **most favourable situation is a direct line of sight between antennas and buttons.** Any obstruction will cause the signal to follow a longer propagation path, which can result in performance degradation.

- Due to the particular radio pattern of the dipole antennas, the **antennas should not be placed just above potential positions of VEO-SWC45 users**. As a result, the advised position for the antennas is at the side of the meeting room.

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5.2 Wall Mount Install

The VEO-SWC45 **can be installed on the wall or flat surface**. On both sides of VEO-SWC45, there are two holes to attach the mounting ears that can be fixed to a surface using flat screws.

⚠ **Mounting screws are not included in the VEO-SWC45 box. The type of screws depends on the type of wall** (stone, wood, plasterboard, …) you are mounting the Base Unit VEO-SWC45 to.

⚠ **For optimal performance, install the VEO-SWC45 close to the display and avoid obstacles between the VEO-SWC45 and the Transmitters.**

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5.3 Connection Diagram

💡 **VEO-SWC45 is compatible not only with VEO-SWC45TU and VEO-SWC45TH but also with VEO-SWC44TU and VEO-SWC44TH.**

⚠️ **Please check the USB Type-C connector on your computer in order to use USB-C transmitters (VEO-SWC45TU and VEO-SWC44TU).**

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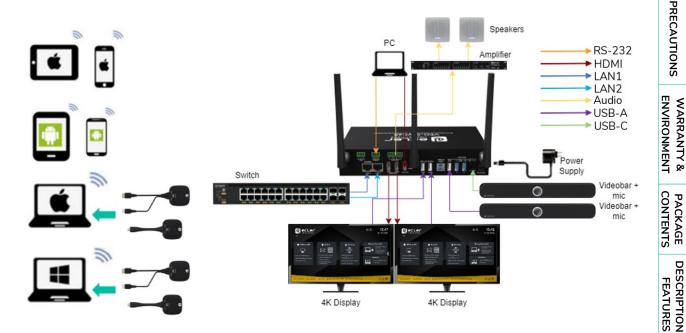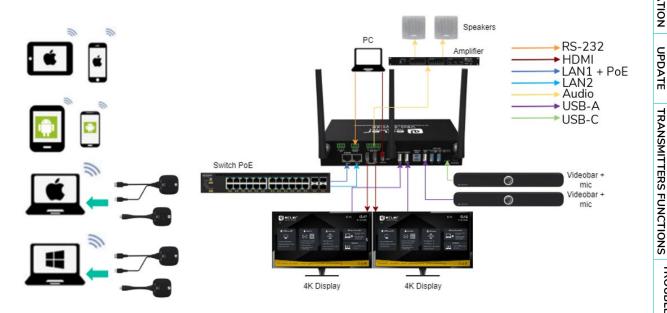
5.3.1 Connection with the Power Supply Adapter.

5.3.2 Connection using a switch with PoE+.

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5.4 Power Connection

- **Local Power Source**

  1. Plug the power connector to the power adapter to the power input connector of the Base Unit VEO-SWC45.

  2. Choose the appropriate power plug (US, UK, EU or AU) to be installed on the power adapter.

  US   UK   EU   AU

  3. Connect the power cable plug into the wall outlet.

  > 💡 Once the VEO-SWC45 is powered it is recommended to **use the POWER button** on the front of the VEO-SWC45 **to switch ON or OFF.**

- **Power over Ethernet**

  If the LAN Ethernet switcher supports PoE (Power over Ethernet), **LAN 2 port can be used to power up** the Base-unit VEO-SWC45 instead of using the external power adapter. (LAN2 Port of the unit supports PoE.).

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5.5 Video Connection

1. **Connect both HDMI® Outputs of VEO-SWC45** to 4K or Full-HD displays by an HDMI® cable.

2. **Connect a 4K or FullHD source to the VEO-SWC45** through the HDMI® input with an HDMI® Cable.

3. After starting up, **the system displays both home pages**, as shown below.

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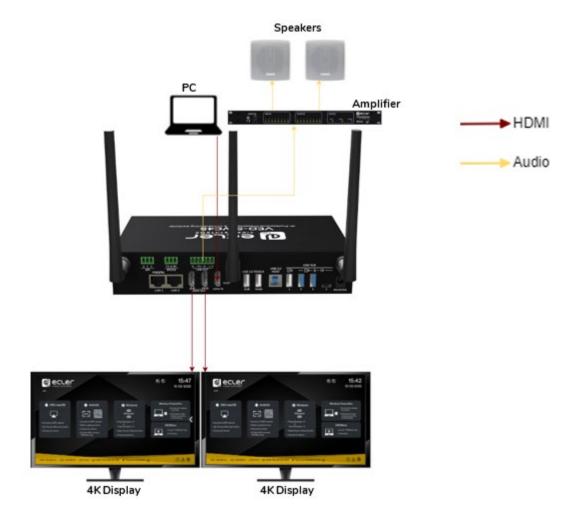
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5.6 Audio Connection

1. **Connect an audio cable with 6-pin Euroblock connector** into the audio of the VEO-SWC45.

> ⚠️ **The audio cables should follow the pinout sequence "⊥-+⊥-+" for direct two channel mono balanced connection compatible with Ecler Audio devices.**

2. **Connect the other side to the meeting room's sound system** (It can be to an amplifier or auto amplified speakers).

> 💡 **VEO-SWC45TH and VEO-SWC45TU can transmit audio to the VEO-SWC45** base unit when the audio output of the source device is selected.

> 💡 **Audio can also be transmitted through the HDMI cable to the Display or to the TV if the display device has built-in speakers**.

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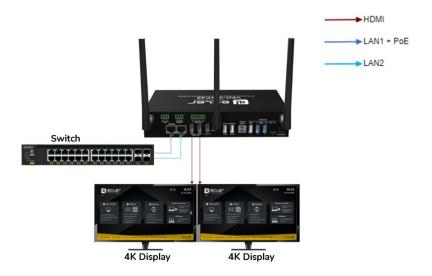TROUBLESHOOTING | UCC Device Manager

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5.7 LAN Connection

1. **Connect a network cable with RJ-45 connector into the LAN 1 or LAN 2** port of Base Unit VEO-SWC45.

2. **Connect the other side to LAN.** DHCP on the VEO-SWC45 switcher is enabled by default.

   a) If there's a DHCP server in the network, IP address will be assigned automatically.

   b) If there is no DHCP server in the network, VEO-SWC45 will require to manually configure a static IP address. For further information, see chapter Network Settings.

💡 **If the LAN Ethernet switcher supports PoE** (Power over Ethernet), **LAN 2 port of the VEO-SWC45 allows to power the switcher** instead of using the external power adapter included.

⚠️ **Wireless Direct Mode is enabled by default. In this network mode, VEO-SWC45 generates its own wireless SSID** with IP address 192.168.43.1. For further information on how to properly configure the network settings according to the needs of the application. see chapter Network Mode.

💡 **The LAN connection can be used for**:

- Network integration of VEO-SWC45 in guest or company network.
- Telnet control the VEO-SWC45.
- Maintenance purpose.
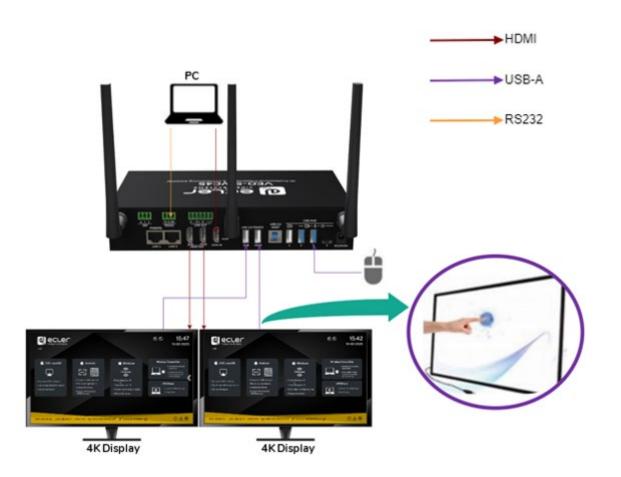- Over-The-Air -Update (OTA) of firmware of VEO-SWC45.

5.8 USB Control Devices Connection

Connecting an USB Mouse or Touchscreen, **the following features will be available**:

- **Moderator tab** to manage the active users sharing content with the VEO-SWC45.

- **White board or annotation** during a presentation.

- **USB-HID function** for laptop control and click function of a touchscreen:

    o **USB mouse:**

    - Single click to select.
    - Right-click to back to the Home Page.

    o **Touch screen:**

    - Click to select.
    - Long press to open the contextual menus, as double-click or click the right button of a USB mouse.

💡 **Connecting a computer via RS-232, allows to send RS-232 commands to the VEO-SWC45.**
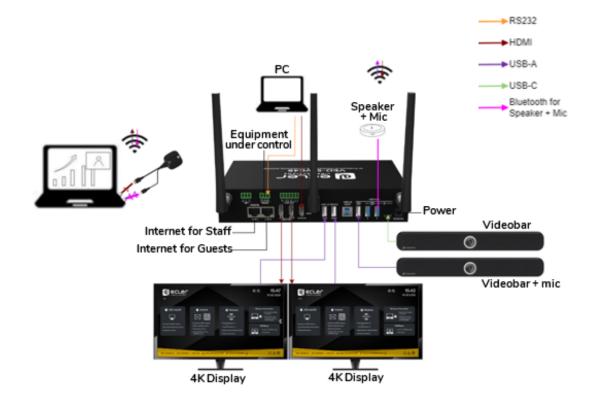
5.9 USB Conferencing Devices Connection

VEO-SWC45 **supports USB Camera and USB speakerphone over WiFi** sharing to start meetings with conferencing software's such as Skype, Zoom, Microsoft Teams, etc. In addition, **it also supports up to 2 different cameras and microphones**. For further information, see chapter Wireless Conferencing Mode for configuration and operation.

💡 **The user can choose between USB-B or Wireless mode to communicate with the USB camera and USB Speaker & Microphone connected to the VEO-SWC45 base unit.**

💡 **When the VEO-SWC45 base unit is on Wireless mode and two USB cameras connected, it is possible to switch between different cameras by using the VEO-SWC45TH or VEO-SWC45TU custom buttons or VEOShare application or WebGUI. For further information on how to customize buttons, please refer to "Button Definition" chapter.**

⚠️ **When conducting a video conferencing via wireless mode, the host PC must be connected in the same network as the VEO-SWC45.** The VEOShare application will be running on the background when using the transmitter (VEO-SWC45TH or VEO-SWC45TU).
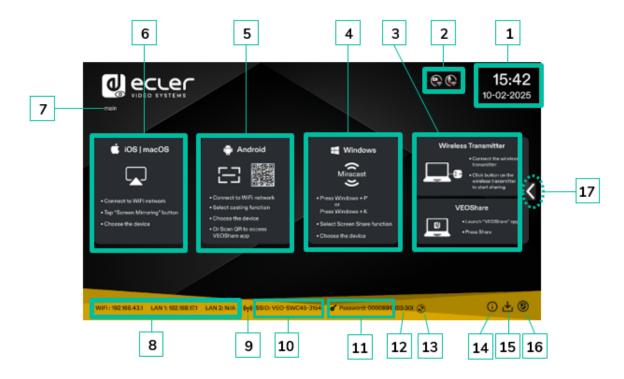
6. START-UP and OPERATION

6.1 Home Screen

When a user **connects the VEO-SWC45 base unit to a HDMI® display**, the following Home Screen is displayed:

1. **Time & Date**: Displays current time and date. If VEO-SWC45 base unit has access to a time server through wireless or LAN connection, time code will be set automatically.

2. **Camera and microphone icon indicator**: The icon is displayed when a USB camera or microphone is connected to the VEO-SWC45 base unit. If the icon is green, the USB device is actively being used. If the icon is not green, the device is connected but not in use. Different icons will also be displayed to indicate whether the USB host is from a wired USB-B connection or a wireless computer.

3. **Wireless Transmitters & VEOShare:** Steps to start sharing content wirelessly using VEO-SWC45TH / VEO-SWC45TU wireless transmitters or VEOShare application.

4. **Windows Quick Start**: Steps to start sharing content wirelessly using a laptop that supports Miracast transmission.

5. **Android Quick Start**: Steps to start sharing content wirelessly using an Android device.

6. **iOS Quick Start**: Steps to start sharing content wirelessly using Airplay on iOS and macOS.

7. **Screen ID:** Displays the name of the output on the screen, which can be either the Main or Sub output.

8. **WiFi / IP LAN IP**: WiFi IP: address of VEO-SWC45 in wireless LAN / Assigned IP: address of VEO-SWC45 in LAN. "N/A" means the VEO-SWC45 base unit is not connected to any WiFi / LAN networks, or it failed to get an available IP address by the assigned DHCP server. In this case, see chapter Network settings.

9. **WiFi Indicator**: Indicates the signal quality of the current wireless network connection.

10. **ID:** Indicates the WiFi SSID name or the assigned VEO-SWC45 device name.

11. **Password**: Shows the WiFi password needed to gain access to VEO-SWC45.

12. **Password timer**: It shows the time until the password is changed automatically. It is only displayed when timer is active.

13. **Refresh WiFi password**: Generates a new password network.

14. **Info**: Clicking on this icon will show / hide Network information of the Home screen.

15. **Download Button**: Clicking on this icon will create a USB launcher drive containing VEOShare application.

16. **Security level**: Clicking on the icon a pop-up window will appear, displaying the security profile currently selected amongst the three levels available.

17. **Sidebar:** Preview screen for all connected devices, whiteboard, annotation. For further information, please refer to "Whiteboard & Annotation" chapter.

6.2 Pairing VEO-SWC45TH and VEO-SWC45TU with VEO-SWC45

Connecting VEO-SWC45TH (HDMI® wireless transmitter) to USB Type A port or VEO-SWC45TU to USB-Type C port will start pairing process automatically. They should be connected one at a time.

⚠️ A **transmitter can only be paired to one base unit** and will always reconnect to the one that was last paired to.

Once a transmitter is plugged, a message indicating that wireless transmitter is booting will be displayed.

After completing the pairing, the message table displays "Pairing successful!" on the home page, as shown. Then, **the transmitters can be unplugged and used for screen sharing content.**

⚠️ **If the error-message "Configuration fail" is displayed, check the connection of USB/type C** to keep stable after plug-in and try again.

⚠️ **After changing the SSID / WiFi channel in Web GUI settings menu, all the transmitters must be paired again**. Transmitters that need assigning to another VEO-SWC45 base unit must be paired again.

6.3 Wireless Presentation Mode

VEO-SWC45 can be used to wirelessly share the screen of AV sources. VEO-SWC45 **can mirror 5 sources onto main display simultaneously**, which supports computers and mobile devices.

6.3.1 Screen Sharing using VEO-SWC45TH and VEO-SWC45TU

1. Pair VEO-SWC45TH or VEO-SWC45TU to VEO-SWC45 base unit, see chapter Pairing VEO-SWC45TH and VEO-SWC45TU with VEO-SWC45.

2. Plug VEO-SWC45TH to the USB-A port and HDMI® port or VEO-SWC45TU to USB-C port of the device that is going to share its content.

3. LED indicator will show static green when ready. Touching the surface will start wireless presentation and LED indicator will show static red.

4. Touching the surface again will stop wireless presentation and LED indicator will go back to static green.

VEO-SWC45TH   VEO-SWC45TU

5. When LED is static red, the content is mirroring to the main screen connected to the VEO-SWC45 base unit.

VEO-SWC45TH   VEO-SWC45TU

💡 See chapter LED Indicator for further information on LED status.

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6.3.2 Screen Sharing using VEOShare Desktop Application
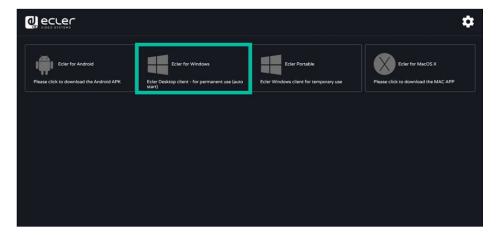
VEOShare application is the launcher that enables users to wirelessly share their screen content with VEO-SWC45 base unit wirelessly from any source device which hosts it, such as a laptop or PC. Simply copying the launcher to the internal storage allows users to run easily the VEOShare application.

Setting up VEOShare

There are **two ways of getting VEOShare desktop app**:

1. **Downloading from WEB page**

   Application can be downloaded from the website by connecting the device (macOS / Windows / Android) to the same network as the VEO-SWC45 base unit.

2. **VEO-SWC45TH / VEO-SWC45TU internal store**

   Wireless transmitters will also act as a USB flash drive that hosts the VEOShare application to be drag and dropped to the computer.

- **macOS**
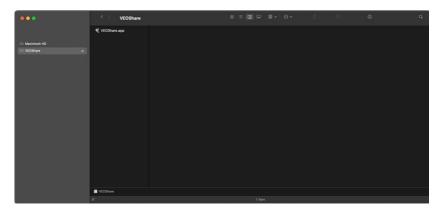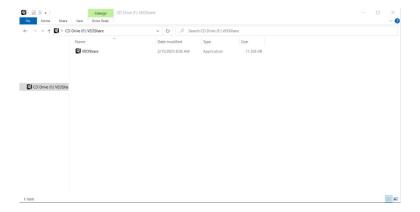
    1. Plug VEO-SWC45TH / VEO-SWC45TU into USB-A / USB-C port.
    2. Go to the Finder and select the external USB flash unit.

    3. Copy VEOShare application to local storage

- **Windows**

    1. Plug VEO-SWC45TH /VEO-SWC45TU into USB-A / USB-C port.

       Go to the File Explorer and select the external USB flash unit.

    2. Copy VEOShare application to local storage.

💡 The **first time that user connects laptop with VEO-SWC45 over WiFi**, when the application detects that unit is connected to camera, mic&speaker, it **will pop out the message bar indicating to install a virtual driver to activate USB over WiFi function**, in order to start video conferencing via VEO-SWC45, as below steps.

💡 **The virtual driver is only for video conferencing**, users can normally mirror desktop without it installed. The virtual devices that must be selected in the VC software platform are "Virtual Meeting Audio" and "Virtual Meeting Camera" for both audio and video interfacing. If the VEO-SWC45 is not connected with camera, mic&speaker, it will not pop out message to install driver, user could mirror desktop as well. For further details <u>see chapter Wireless Conferencing Mode</u> .

- **Starting and Operating VEOShare application**

  Once VEOShare application is copied into the local storage of the computer, it is ready for use.

  1. **Open VEOShare application** on the source device. The available VEO-SWC45 switcher will show if source device and the switcher are on the same network.

  2. **Connect the laptop to WiFi network displayed on the Home Screen** ("Guest", "Staff"), or connect to the LAN on the network **using a network cable**.

  3. **Double-click the VEOShare application**. A list of all available VEO-SWC45 base units in the same network will be displayed. select the device to connect to. The connections are password protected (lock icon 🔒).

  4. **Enter VEO-SWC45 password** and **click "connect",** the **system is ready to share**.

     > 💡 **Manually connection** by entering the name (SSID) or IP address **is also possible** if base unit is not appearing. (click 🔗 icon).

  5. VEOShare application layout will turn to green. **Clicking "Ready to share" will start sharing content** with the main display connected to the VEO-SWC45 HDMI® output. When window colour is static red, the desktop is mirroring to the main screen.

  6. Clicking "**Sharing**" **will stop sharing content**. Window colour is static green again.

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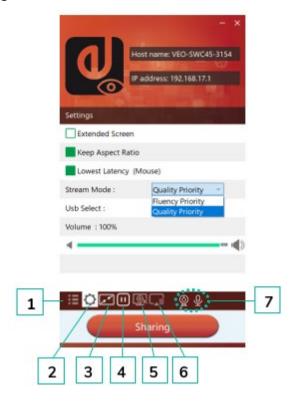
VEOShare Settings

1. **Device List** ☰

2. **Options** ⚙

   - **Extended Screen:**

     Transfers extended desktop of active source.

     The primary screen (1) is displayed on the laptop and the virtually extended screen (2) is displayed on the main screen. If the PC has already connected an extended screen (3), the extended screen (2) will always be displayed on the main screen.

     For the first time use of function "Extended Screen", click the "Extended Screen", will pop out a message to indicate the installation of the "ExtendedDisplay" driver. Click "yes" to continue, once installed, the Extended screen function is ready to use.

     💡 If **Extended Screen** feature is **selected, Windows automatically switches to "Extended Mode".** If you stop the transfer with "VEOShare" (Pause), Windows remains in " Extended Mode" until pressing "Windows key + P" on the laptop to select the "PC screen only" mode.

     ⚠️ In **macOS, Extended desktop ("Use a Separate Display") only via AirPlay**, when activated for Display on VEOShare application.

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- **Keep Aspect Ratio:**

  This parameter will apply the original aspect ratio of the main screen.

- **Lowest Latency Mouse:**

  The setting is applied individually on every VEOShare host device only. The shape of mouse-pointer is equal to the shape in the application used. This parameter significantly improves the mouse response (approximate latency is under 20ms).

- **Stream Mode:**

  This parameter will adapt the performance to fit the desired application:

  o **Fluency Priority**: (Default) Image transmission delay is small, image resolution will be lower, suitable for PPT presentation mode.

  o **Quality Priority**: The image resolution is relatively high, but when the image content is complex, the transmission delay will be relatively larger, suitable for watching video.

- **USB Select:**

  o **USB-B**: (Default) the USB camera/mic/speaker are switched to the USB-B host PC.

  o **Wireless**: the USB camera/mic/speaker are switched to the wireless host PC.

- **Volume Slider:**

  This parameter will adjust the playback volume of the main screen when presentation mode is in use.

  > ⚠️ **Not available in macOS**

3. **Full Screen**

   By clicking full screen icon on PC UI interface, or long press the wireless transmitter, the content will be full displayed on screen. Click or short press again, will get the screen back to quad view mode.

4. **Screen Freeze**

   By clicking the screen freeze icon on the interface or customizing one of the transmitter buttons, the screencast content will be frozen. It will cancel the freeze by clicking again. For further information, please refer to "Button Definition" chapter.

5. Screen Capture 📷

By clicking the screen capture icon on the interface, the screen capture window will open, and you can see the content of the main screen or sub screen.

6. Screen share source 🖥

By clicking the screen share source icon, a sliding panel allows the user to choose which content wants to share. There are two possibilities, the default one is desktop share and the second allows the user to share only the window of an application in use.

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7. Camera & Mic 📷 🎤

> 💡 **This option will only be displayed on the screen when a camera and/or microphone is connected.**

When the Camera & Mic device are plugged into the VEO-SWC45 base unit, the corresponding icon will be shown on the VEOShare application. If there are 2 sets of Camera & Mic devices plugged into the VEO-SWC45 base unit, click the icon to choose the desired Camera & Mic to use.

6.3.3 Screen Sharing using Airplay

On iOS and macOS devices a user can stream his screen or sound wirelessly to VEO-SWC45 base unit via Airplay protocol.

1. Connect the iOS or macOS device to the same WiFi network that VEO-SWC45 is connected to.

2. Show the control centre. Click the Airplay icon 🖥️ on your iOS and macOS device and select the target VEO-SWC45 to start sharing content with the VEO-SWC45.

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6.3.4   Screen Sharing using Miracast

- **Android Devices**

    1. **WiFi** must be **enabled**.

    2. **Click the "Cast" icon** on the control centre.

    3. **Select VEO-SWC45 SSID and click** to connect.

    > ⚠️ Under **Security Level 1 mode**, there is **no need to enter password** to connect. Under **Security level 2 and Security level 3** mode, it will **need to enter password** on VEO-SWC45 Home Screen to connect and start casting.

    4. After **entering the password**, **your mobile content will be shown on the display**.

    5. **Click** the "**Cast**" icon **again** to **stop mirroring**.

- **Windows Devices**

    1. **WiFi must be enabled and connected** to the same network as VEO-SWC45 base unit.

    2. **Press** ⊞ **+ P and then click "Connect to a wireless display"** in the pop-up window.

> ⚠ Under **Security Level 1 mode**, there is **no need to enter password** to connect. Under **Security level 2 and Security level 3 mode**, it will **need to enter password** on VEO-SWC45 Home Screen to connect and mirror. After entering password, your mobile content will be shown on display.

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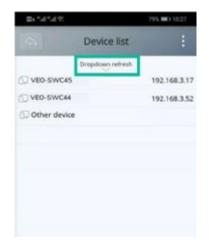
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6.3.5 Screen Sharing using Chromecast

- **Android Devices**

1. **Download VEOShare** application <u>(see chapter WebGUI Setting Management & Configuration).</u>

2. **Connect your Android device to** one of the **displayed WiFi networks.**

3. **Open the VEOShare application** in the Android device, and then **click the device list refresh button**.

4. **Select the VEO-SWC45** to connect to **and enter the password** to start screen sharing.

5. **Click again the button "Share Screen" to stop mirroring**.
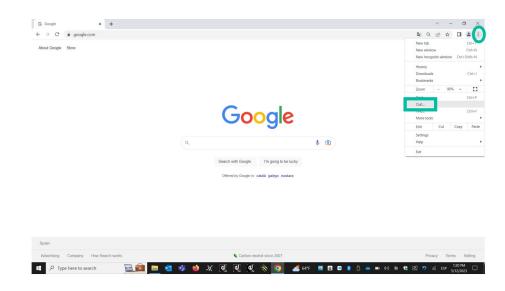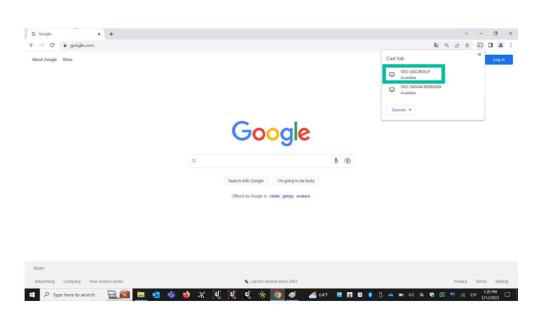
- **Windows Devices**
    1. **Connect the Windows Devices and VEO-SWC45 on the same network.**
    2. **Open Chrome browser**.
    3. **Click "cast"** to connect Chromecast function.

4. **Click VEO-SWC45 SSID to start sharing** content.

5. **Click VEO-SWC45 SSID again to stop sharing** content.

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6.4 Wireless Conferencing Mode

VEO-SWC45 allows **to conduct a video conference using the room USB conferencing devices over WiFi**.

1. **Connect the USB conferencing devices to the VEO-SWC45 USB ports.** Camera and microphone icons will appear on VEOShare control bar.

   o **White icons**: indicate the USB camera and speaker/mic are connected.

   o **Green icons**: indicate the USB camera and speaker/mic are connected and in use by any given application.
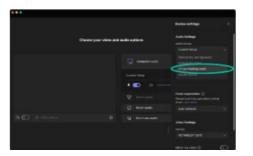
2. **Launch Videoconferencing application**.

   - Select "Virtual Meeting Camera" as video device.

   - **For Speaker**, select "Virtual Meeting Audio".
   - **For Microphone,** select "Virtual Meeting Audio", too.

3. **Clicking "Ready to share" button** in VEOShare application will start wireless conferencing sharing.

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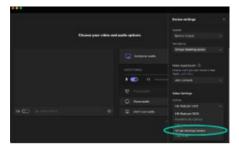PANEL & WIRELESS TRANSMITTERS FUNCTIONS
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6.5 Moderator Preview Window

VEO-SWC45 includes a **moderator preview window** that **will let the user choose which of the online devices is displayed on the main screen, turn on and off wireless casting on any device or control volume playback**.
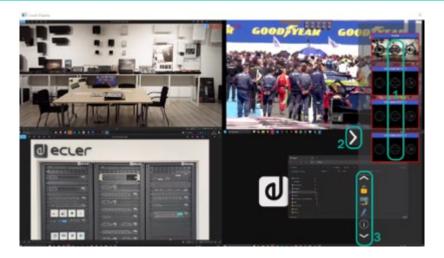
⚠️ In order **to show, hide or manage moderator tab, a USB HID compatible device connected to the VEO-SWC45 base unit is necessary** (Touchscreen, mouse...).

Preview windows of all connected transmitters, VEOShare application users and Airplay / Miracast / Chromecast screen sharing devices will appear on the tab. Various window prefixed layouts can be selected on Moderator section of WEB settings, see chapter [Multiview Layout](#).

💡 **Five users are allowed to present simultaneously and 15 more can be connected** to VEO-SWC45 base unit in standby.

Moderator Preview Control Buttons:

1

Click to start transmission.

Click to stop mirroring the current participant.

Click to make this device full screen on main screen.

Click to adjust the volume of connected participant.

2   Arrow to show moderator tab.

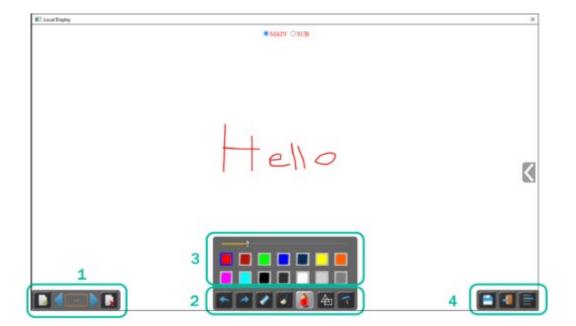**3**   Whiteboard and Annotation. For further details, see below.

6.6 Whiteboard & Annotation

Whiteboard and Annotation requires an USB HID compatible device, such as interactive white board, touch screen or mouse. There are two different modes:

6.6.1 Whiteboard

A white board is brought up that **will let the user to write notes, draw content**. It allows different figures, colours and background. To start Whiteboard, mode **click** [E=mc²] **on the Home Screen.**

Use the toolbar to select one of the following functions.

ID	Icons	Function
Tool bar 1		Add an empty page.
		Delete current page.
	1/1	Display previous or next page.

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Tool bar 2		Undo: one step backward in changes.
		Redo: one step forward in changes.
		Erase part of drawings or annotation, change diameter by a longer tap.
		Clear the entire drawing/writing on the screen.
		Pen allows writing/drawing in different colours.
		Draw basic geometric shapes.
		Select colour of board, the drawing will be kept.
Tool bar 3		will pop up, when "Pen" or Draw shape or Select colour of board is selected, for individual change of size of Pen, Shape or colour.
Tool bar 4		Save the current screenshot on local storage (PNG+WMN).
		Close Whiteboard to go back to Home Screen, actual project can be saved on local storage (WMN).
File options	Open New project Save as Import from USB disk Save as Udisk Save as pdf Clear history	• Open WMN-file from local storage and continue/edit an older project. • New project • Save as WMN on local storage in unit, it will be erased after POWER-OFF. • Import from U disk stored project (WMN). • All pages are saved as PDF on local storage. • Clear history – delete all whiteboard & annotation files on local storage.

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6.6.2   Annotation

Allows the user **to draw or write annotations in overlay within the presented content of the active sharing devices**. It allows different figures, colours, and background.

To start Annotation mode, **click** ✏️ **on the Home Screen**.

Use the toolbar to select one of the following functions.

ID	Icons	Function
Tool bar 1		Undo: one step backward in changes
		Redo: one step forward in changes
		Erase part of drawings or annotation, change diameter by a longer tap
		Clear the entire drawing/writing on the screen
		Pen allows writing/drawing in different colours
		Draw basic geometric shapes
		Select colour of board, the drawing will be kept
		Close Whiteboard to go back to Home Screen, actual project can be saved on local storage (WMN).
		Save the current screenshot on local storage (PNG+WMN).

- **Download the Drawings to Connected Users**

  When saving a screen of Whiteboard or Annotation modes into internal storage of VEO-SWC45, **scanning the QR code or entering the given IP address in a browser will allow the user to download the saved files**.

> 💡 **Data can be copied to a USB disk and** after connecting it to the VEO-SWC45, it can be **imported into the Whiteboard section** with "Import from U disk".

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7. WebGUI SETTING MANAGEMENT & CONFIGURATION

To access the VEO-SWC45 web settings, enter the base unit's IP address into a web browser. The first page will display the **Log in** screen for the web settings.
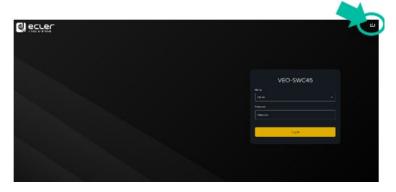
Login page will appear.

- **Default user:** admin
- **Default password:** admin

> 💡 **Entering Login credentials will give access to the main WEB settings page** where it will be able to configure Network settings, Display & Audio, Moderator control, System settings, Security settings, Firmware upgrade, Other settings, About device.

4. **Click on the download icon** 📥 **to access the download page** for the VEOShare application for all platforms.

> 💡 **If VEO-SWC45 is on "Wireless direct Mode", first access VEO-SWC45 SSID and enter current password on Home Screen page. IP address is 192.168.43.1.**

5. **Click** ⚙️ on the top right corner to enter the **web settings home page menu.**

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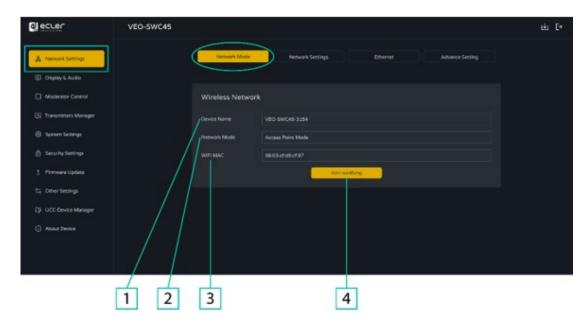UCC Device Manager
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7.1 Network Settings

To take the full benefit of VEO-SWC45 features, it is important to configure and integrate the base unit network settings according to the needs of the application required. VEO-SWC45 includes two independent wired LAN and a WiFi network card.

The following sections can be accessed in Network Settings page:

7.1.1 Network Mode

This section allows the user to **set the network working mode of VEO-SWC45**.

1. **Device name**: this parameter indicates current name assigned to VEO-SWC45.
2. **Network mode**: this parameter tells the user which network working mode is currently configured.
3. **WiFi Mac:** this parameter shows the MAC address assigned to the VEO-SWC45 network card.
4. **Start modifying**: Click to enter a network setup wizard is available to change network working mode to properly integrate VEO-SWC45 into an existing wireless infrastructure.

> ⚠️ **Any change to Network mode will need VEO-SWC45TH and VEO-SWC45TU to be paired again with VEO-SWC45 base unit. For further information, please** refer to "Transmitter Pairing" chapter.
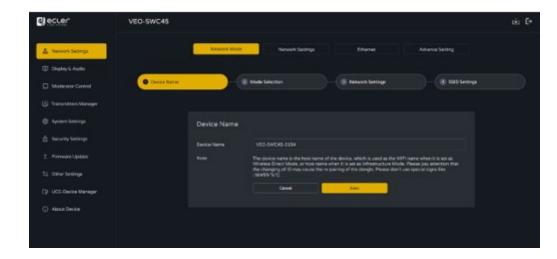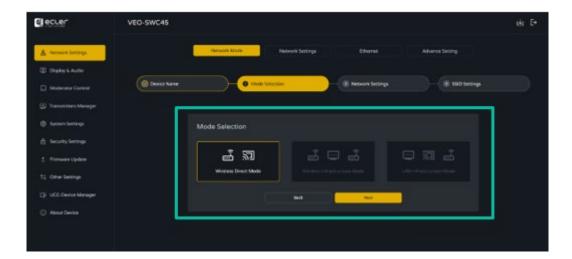
7.1.1.1 Network Modes Configuration

1. **Device Name:** Enter a device name for the Base-unit VEO-SWC45. Allowed characters are: "a-z", "A-Z", "0-9", "-", "_" and "space ", then Click "Next".

2. **Mode Selection**: Select the desired network mode and click "Next".
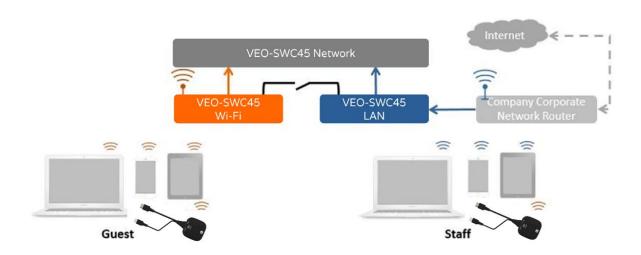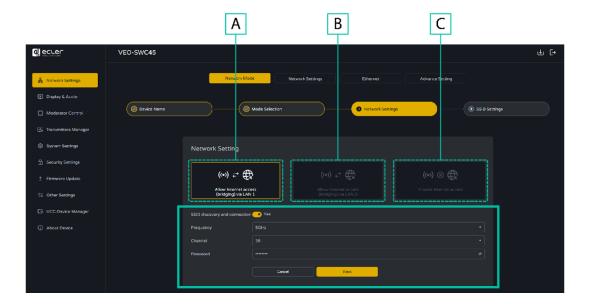
- **Wireless Direct Mode**

  VEO-SWC45 unit starts up in the default standalone "Wireless direct mode" configuration after a factory reset or the first time it's being used. The base unit creates its own wireless access point, which all devices need to connect in order to share content with base unit. **This option is best for temporary operation, small installations, and rooms without network access** or networks that do not allow network access for Guests, due to strict security concerns, and are completely separated from the corporate network.

  💡 **Under this mode, VEO-SWC45 can work without any other wireless network configuration.** Just pair VEO-SWC45TH / VEO-SWC45TU with VEO-SWC45 base unit, connect to VEO-SWC45 internal hotspot and open VEOShare application or use Airplay, Miracast or Chromecast wireless casting protocols.

1. **Click "Next" to Set up WiFi access point**.

There are **three ways of connecting to Internet** through VEO-SWC45 in "Wireless Direct Mode":

A. **Allow internet access (bridging) via LAN 1**: the source device can be connected to Internet if LAN1 port is available.

B. **Allow internet access (bridging) via LAN 2**: the source device can be connected to Internet if LAN2 port is available.

C. **Disable internet access**: the source device cannot be connected to Internet if this mode is activated.

- **SSID discovery and connection**: Select "Yes" to make VEO-SWC45 SSID visible and "No" to hide it.

- **Frequency:** Click to select 2.4 GHz or 5 GHz WiFi frequency. Default is 5 GHz.

- **Channel**: Click to select the WiFi channel. Default is 5 GHz, Auto. If the WiFi channel is changed, no new pairing of the wireless transmitter is necessary.

  o 2.**4 GHz frequency band**: channels 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11,

  o **5 GHz frequency band**: no need to choose 5G channel, system will choose proper channel automatically. Default is 5 GHz, channel: Auto.

  o **Default channel (USA area)**: 36,40,44,48 or 149,153,157, 161. Four channels will be opened at the same time, system will automatically choose proper channel from them.

  o **Default channel (European area)**: 36,40,44,48.

  o **Default channel (China)**: 149,153,157,161.

- **Password**: Click in the input filed to fill out the appropriate password with length of 8 characters.

2. **Click "Next"** to **edit or change GUEST and STAFF network SSID**. This information will be displayed at Home Screen of VEO-SWC45.

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3. Click "OK" to finish configuration.

4. Once settings are submitted successfully, please re-pair wireless transmitters with VEO-SWC45.

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- **Wireless Infrastructure mode**

VEO-SWC45 can simultaneously connect to a wired and a wireless network. The segmented dual network of VEO-SWC45 provides two separated routing ways to connect to the base unit at the same time. **This is very useful for organizations, which have a wireless "Guest" network for external visitors and a wired "Staff" network for their employees**. Guest-users are not able to access any resource on the internal network of the company. Guest and Staff have internet access.
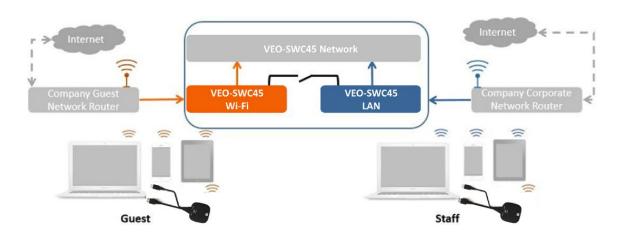

Under this mode, **users will be able to present with VEO-SWC45TH / VEO-SWC45TU / VEOCast / Native Wireless protocols (Airplay, Miracast, Chromecast)**. **VEO-SWC45TH / VEO-SWC45TU will be connected to the WiFi access point of "Guest" network**, which in turn is connected to the internal WiFi access point of VEO-SWC45. (They can also be configured to connect to the enterprise's access point.) **Mobile devices users will stay connected to their current network** thus have access to their normal corporate environment as well as Internet access.

1. Click "**Next" to enter the configuration of this the network mode.**

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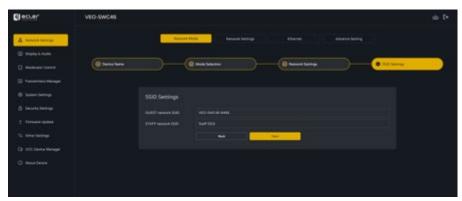User Interface

2. **Choose a wireless network** which is separate from the company LAN network **for guest users**.

   • **Select SSID**: Choose a wireless network to connect to VEO-SWC45 for guest.

   • **Password**: enter password to connect the VEO-SWC45 to the guest network.

3. **Click "Next" to edit or change GUEST and STAFF network** SSID.

   • **GUEST network SSID:** Enter the desired guest Wi-Fi name to be displayed on the Home Page.

   • **STAFF network SSID:** Enter the desired staff Wi-Fi name to be displayed on the Home Page.

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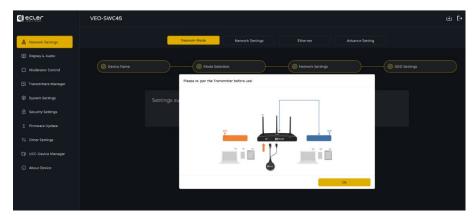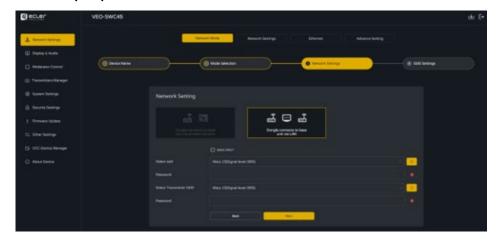User Interface

4. **Click "OK" to finish configuration.**

5. **Once settings are submitted successfully, please re-pair wireless transmitters with VEO-SWC45.**

6. **Repeat the previous steps and instead choose a LAN network which is used for the company staff users**.

💡 Usually in this mode, **wireless transmitter** is **paired for internal staff usage**.

- **Select SSID**: Choose a wireless network to connect to VEO-SWC45 for guest.
- **Password**: enter password to connect the VEO-SWC45 to the guest network.
- **Select wireless transmitter SSID**: choose the same LAN network which VEO-SWC45 connects, to pair the wireless transmitter.
- **Password:** enter password of the LAN network.

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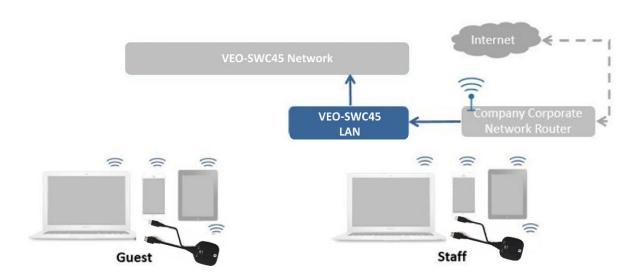User Interface

• **LAN Infrastructure Mode**

💡 **In this configuration** the built-in **WiFi access point** of VEO-SWC45 **is disabled.**

VEO-SWC45TH / VEO-SWC45TU and mobile devices can connect to the secured wireless access point of the company network. The VEO-SWC45 **base unit will be connected via network cable** to the wired of the company network.

The **Staff users will be able to connect to their usual access point of Company network**, without the need to change the WiFi as long as both networks are on the same range.

⚠️ **VEO-SWC45TH / VEO-SWC45TU will be automatically paired to the Staff access point,** and not to VEO-SWC45 base unit.

1. **Click "Next" to choose a LAN network** which is used for the company staff users **and re-pair the wireless transmitters again into this network**.

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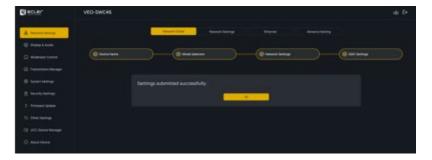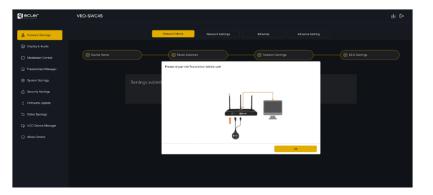
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2. Click "Next" to **edit or change GUEST and STAFF network SSID**.

- **GUEST network SSID:** Enter the desired guest Wi-Fi name to be displayed on the Home Page.
- **STAFF network SSID:** Enter the desired staff Wi-Fi name to be displayed on the Home Page.

3. Click "OK" to finish configuration.

4. Once settings are submitted successfully, please re-pair wireless transmitters with VEO-SWC45.

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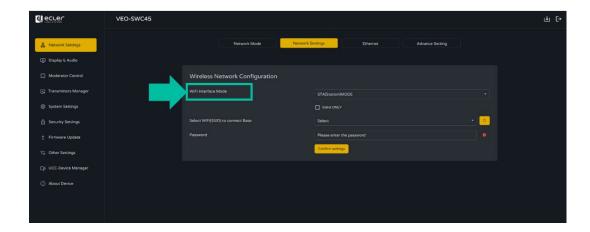
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7.1.2   Network Settings

This section **manages the settings for Wireless Network Configuration.**

> 💡   For specific configuration of the three modes on this page, please refer to the "Network Modes Configuration" section.
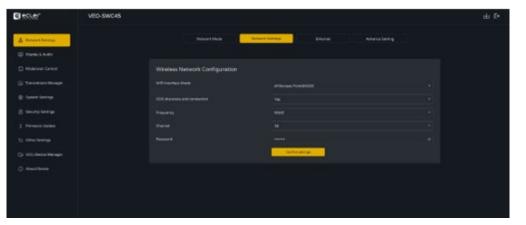

The network mode can be set directly on this page: Access Point Mode, Wireless Infrastructure Mode, or LAN Infrastructure Mode.

The selected network mode will determine the changes on the page. Once the mode is chosen, the page will be updated to reflect the selected network mode.

7.1.2.1   AP (Access Point) MODE

When the WiFi Interface Mode is set to Access Point Mode, this page will display in AP (Access Point) Mode, allowing direct configuration of the options on this page.

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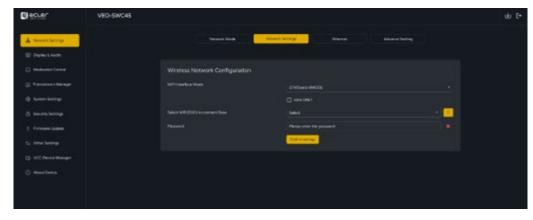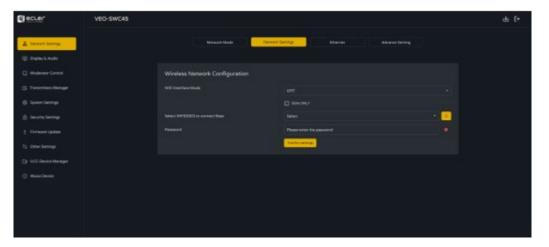User Interface

7.1.2.2 STA (Station)MODE

When the **Network Mode is set to Wireless Infrastructure Mode, this page will display in STA (Station) Mode**, allowing direct configuration of the options on this page.

7.1.2.3 OFF

When the **Network Wizard is set to LAN Infrastructure Mode, this page will display as OFF**, allowing direct configuration of the options on this page.

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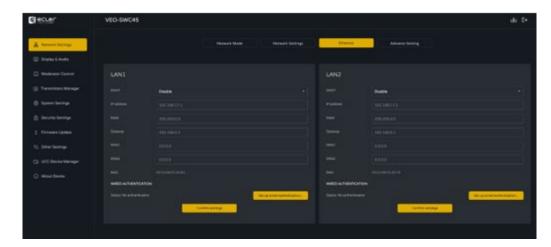User Interface

7.1.3 Ethernet

This section allows the user **to configure the settings for wired LAN 1 and LAN2.**

- **DHCP**: This parameter allows enabling automatic IP address assignment if a DHCP server is present in the network. To configure a fixed IP address, this parameter must be disabled first.

- **IP Address:** This parameter allows the user to enter the desired IP address.

- **Mask**: this parameter allows the user to enter the desired network mask.

- **Gateway**: this parameter allows the user to enter the desired IP gateway.

- **DNS1-2**: this parameter allows the user to enter the desired DNS servers.

- **MAC:** This parameter displays the MAC address.

- **Wired Authentication Status:** Set up wired authentication (no authentication, EAP-TLS, EAP-TTLS, PEAP).

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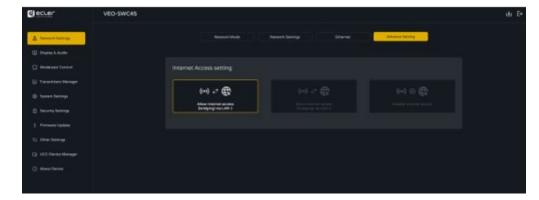User Interface

7.1.4 Advance setting

When the network mode is set to Wireless Direct Mode, you can directly change the three ways the VEO-SWC45 connects to the Internet here.

- **Allow Internet Access (bridging) via LAN1**: Enables the VEO-SWC45 to access the Internet via LAN port 1.
- **Allow Internet Access (bridging) via LAN2:** Enables the VEO-SWC45 to access the Internet via LAN port 2.
- **Disable Internet Access:** Disable the VEO-SWC45 from accessing the Internet through any LAN port.

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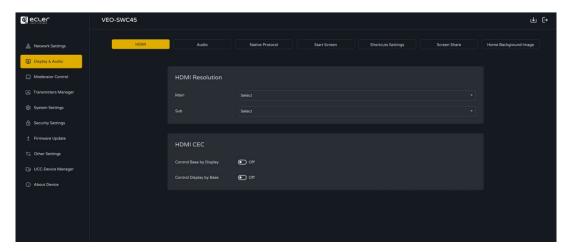TECHNICAL DATA | About Device
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7.2 Display & Audio

7.2.1   HDMI®

7.2.1.1 HDMI® Resolution

Select the resolution at HDMI® output of base-unit.

Existing HDMI® output resolution as below:

Main	Sub
Auto	Auto
3840x2160@60Hz	1920x1080@60Hz
3840x2160@50Hz	1280x720@60Hz
3840x2160@30Hz	1280x720@50Hz
1920x1080@60Hz	
1920x1080@50Hz	
1920x1080@30Hz	
1280x720@60Hz	
1280x720@50Hz	

💡 The settings will display **the maximum resolution supported by the connected display**. The **sub display supports up to Full HD (1920x1080p)**, so 4K resolution will not appear in the resolution list. The **main display supports up to 3840x2160@60Hz.**

💡 **There are two display modes: 1+4** (one user in full screen on the main display + four on the sub) **and 4+1** (four on the main + one on the sub). **The 4K resolution will be available on the display where the full-screen user is shown.** Please refer to chapter Dual-display for further information.

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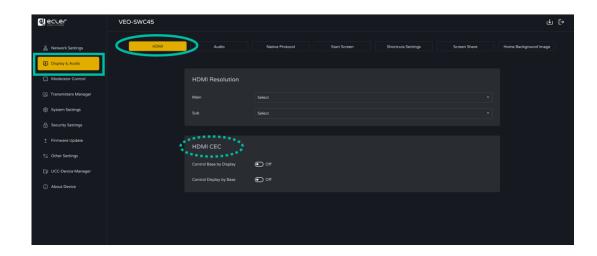
7.2.1.2 HDMI® CEC

VEO-SWC45 support CEC function if the connected display support CEC function.

- **Control Base by the display**

  With this option, you can choose whether the connected VEO-SWC45 base unit automatically enters standby mode or not as soon as the display is turned off.

  - **On:** As soon as the display is turned off, the unit base VEO-SWC45 will also be auto turned off.

  - **Off (Default)**: The display is turned off but the VEO-SWC45 will not be auto turned off.

- **Control Display by Base**

  With this option, you can choose whether the display automatically enters standby mode or not as soon as the connected unit base VEO-SWC45 is turned off.

  - **ON (Default):** As soon as the VEO-SWC45 is turned off, the connected display will also auto turn off.

  - **OFF**: Display will not automatically turn off when VEO-SWC45 is turned off.
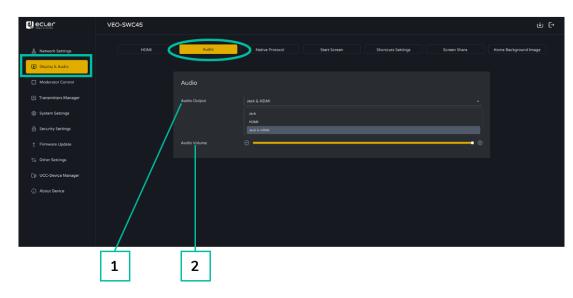
7.2.2 Audio

Allows the user **to choose which sound source is routed to audio output.**
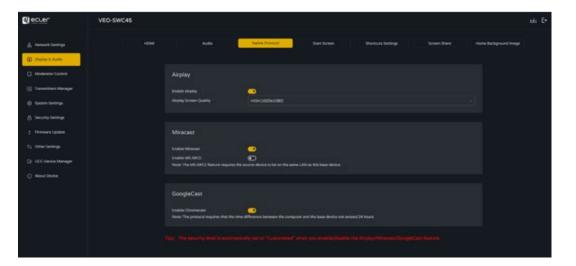

1. **Audio output:**
   - **Jack:** output only 6-pin balanced analogue audio.
   - **HDMI:** output only HDMI® audio.
   - **Jack&HDMI (Default):** output Jack & HDMI® audio.

2. **Audio volume:** volume can be selected from 0 to 100.

7.2.3 Native Protocol

Enabling or disabling third-party protocol will adjust the security level to a customized level.
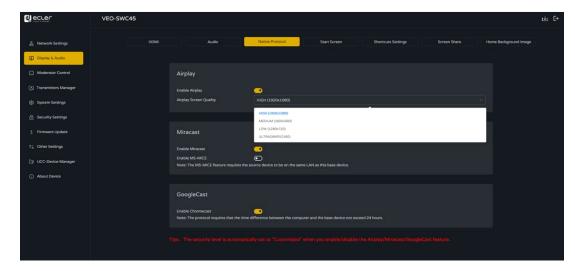
7.2.3.1 Airplay Screen Quality

Airplay is **enabled by default. When the Airplay switch is turned on, it allows screencasting through Mac, iPhone, and iPad.**

Airplay screen projection resolution:

- High (1920*1080)
- Medium (1600*900)
- Low (1280*720)
- 4K (3840*2160)

⚠ **Please note that higher resolution provides clearer images, but it also increases delay.**
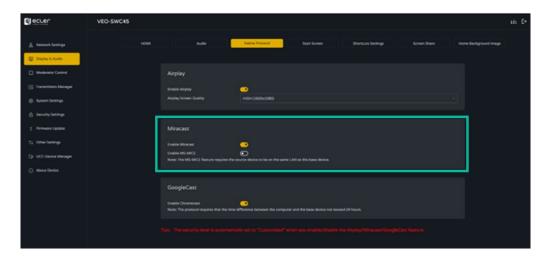
7.2.3.2 Miracast

- **Miracast switch: enabled by default.**

  Miracast uses the P2P protocol by default, supporting a maximum resolution of 1080p. In this mode, the computer and the base unit do not need to be on the same network. Simply press the Windows+K keys to enable the Miracast function. Find then the VEO-SWC45 device in the list of available Miracast devices and click the link to start screencasting.

- **Miracast MICE protocol switch: disabled by default**

  The MS-MICE protocol is an extension of the P2P protocol. To start this protocol, the PC and VEO-SWC45 must be on the same LAN. While the device search still uses the P2P protocol, video stream transmission uses the LAN. The usage remains the same whether the MS-MICE protocol is enabled or not.

> ⚠️ **The MS-MICE functionality requires the source device to be on the same LAN as this device.**
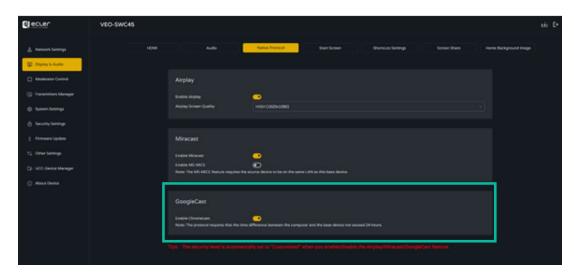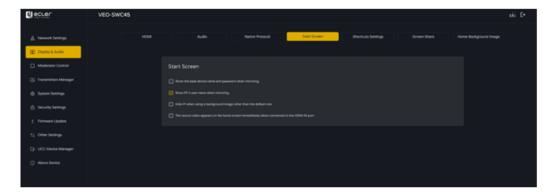
7.2.3.3 Google Cast

Google Cast **switch is enabled by default.**

> ⚠️ **This protocol requires that the time difference between the computer and the base unit does not exceed 24 hours.**

7.2.4 Start Screen

- **Show the base device name and password when mirroring:** when this option is selected, the VEO-SWC45 device ID and password will remain visible during mirroring.

- **Show PC's username when mirroring:** when this option is selected, the PC username will be displayed during screen casting.

- **Hide IP when using a background image other than the default one:** when this option is selected, the base device Wi-Fi IP and LAN IP will not be displayed if the background image is not the default one.

- **The source video appears on the home screen immediately when connected to the HDMI IN port:** when this option is selected, the screen will automatically cast if an HDMI source is plugged into the VEO-SWC45 HDMI IN port.

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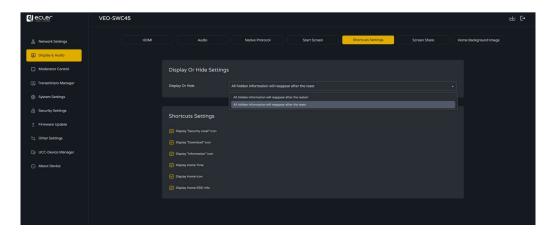
7.2.5   Shortcuts settings

- **Display or Hide Settings:**

  All hidden information will reappear on the home screen after a restart or reset.

- **Shortcuts Settings:**

  o **Display "Security Level" icon:** choose whether to show or hide the security level icon.

  o **Display "Download" icon**: choose whether to show or hide the download icon.

  o **Display "Information" icon**: choose whether to show or hide the information icon.

  o **Display Home Time:** choose whether to show or hide the home time.

  o **Display Home Icon:** choose whether to show or hide the home icon.

  o **Display Home SSID Info:** choose whether to show or hide the home SSID information.

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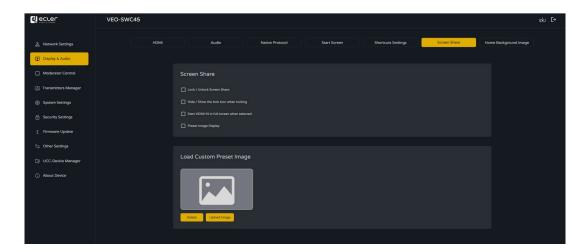
7.2.6 Screen Share

- **Screen Share**
  - **Lock/Unlock Screen share:** enables or disables the ability to share the screen, preventing unauthorized users from taking control of the shared content.
  - **Hide/Show the lock icon when locking:** determines whether the lock icon is visible when the screen-sharing feature is locked, providing a visual cue for users.
  - **Start HDMI® IN in full screen when selected:** enables or disables full-screen mode for the device connected to the HDMI® IN port of the VEO-SWC45.
  - **Preset image display:** enables or disables the display of a predefined image when no content is being shared, acting as a placeholder or default screen.

- **Load custom preset image**

  Allows users to upload and set a custom image as the preset display, offering personalization and branding options.
  - **Delete:** removes the currently set preset image.
  - **Upload image:** adds a new custom image to use as the preset display.
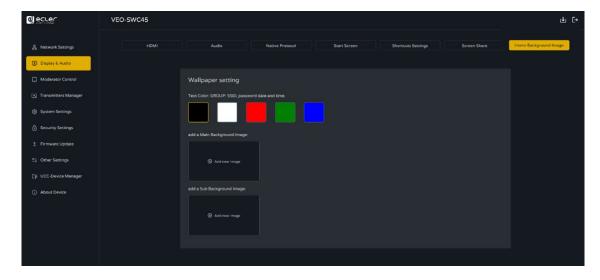
7.2.7 Home Screen Background Image

When powering VEO-SWC45, the Home Screen will be displayed. **User can change the background image of Home Screen**.

Select an image (jpg, bmp, png, gif with 1920x1080 p. resolution) from the appropriate directory **and activate the selection box**.

💡 **It is always possible to return to the standard home screen at any time.**

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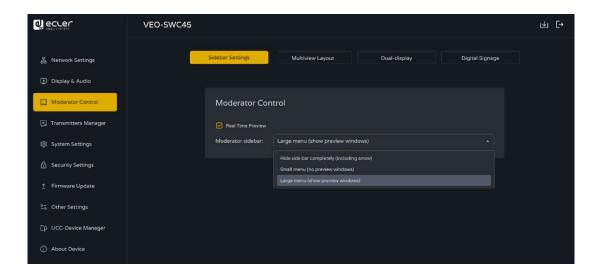
7.3 Moderator Control

7.3.1 Sidebar Settings
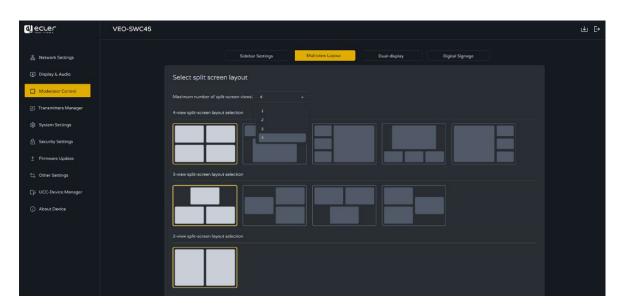
The user can **enable or disable moderator control and preview on moderator side bar.**

7.3.2 Multiview Layout

This section **allows preset window layouts to display participants on the main screen, with up to four views simultaneously.**

Max split-screen views: 1, 2, 3, or 4.

- **The number of views can be manually selected.** For example, choosing 3 enables a 3-split layout.
- **Layout selection adjusts accordingly based on the chosen number of views.**
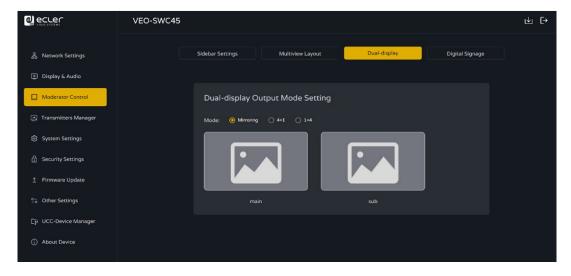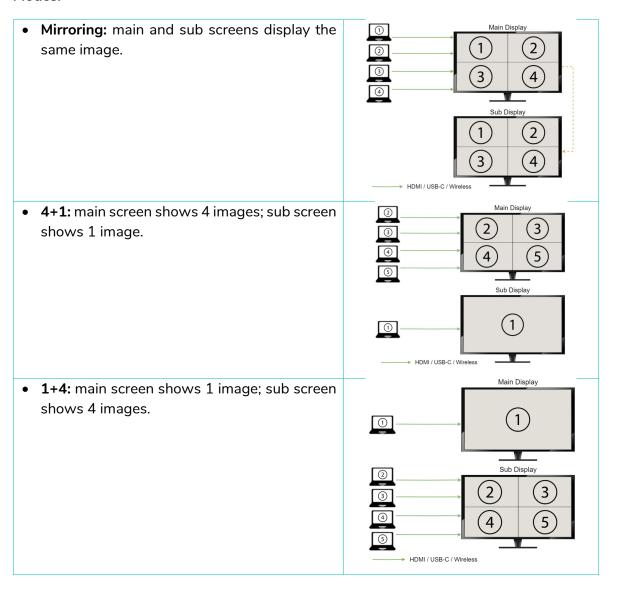
7.3.3   Dual-display

VEO-SWC45 **supports dual-screen display and can cast up to 5 images simultaneously**.

Modes:
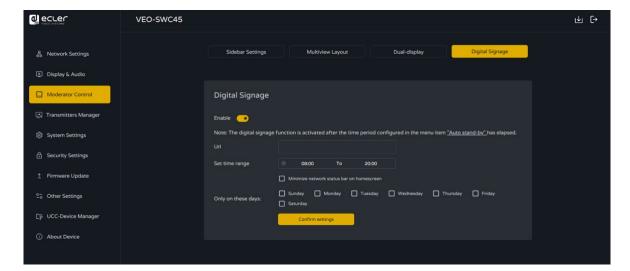
• **Mirroring:** main and sub screens display the same image.	
• **4+1:** main screen shows 4 images; sub screen shows 1 image.	
• **1+4:** main screen shows 1 image; sub screen shows 4 images.	

7.3.4 Digital Signage

This function allows you **to display the desired web page information when the base unit is in standby mode.**

> 💡 **Digital Signage switch is disabled by default. However, it will be automatically activated once "auto standby" is enabled.**

- **URL:** enter the required URL for the web page you want to display.
- **Set Time Range:** define a time period during which the monitor will be in standby mode and show the web page information from the entered URL.
- **Only on These Days:** select the days (Monday to Sunday) when you want the display to show the web page.

> 💡 **To access the auto standby settings page, simply click on the text "Auto Standby" in the prompt.** If the current time is within the designated period, press the power button on the VEO-SWC45 base unit to switch to the digital signage page. Press it again to return to the main page.
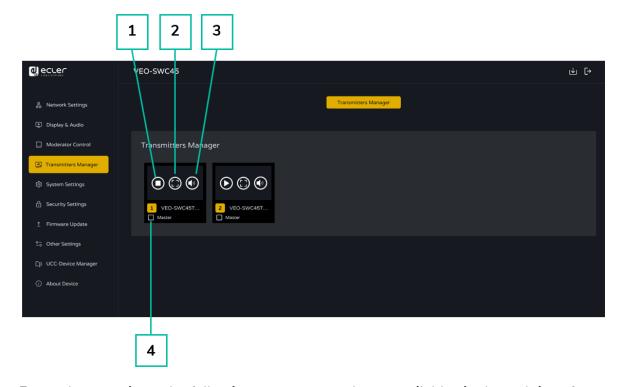
7.4 Transmitters Manager

The Transmitters Manager **oversees the management of all transmitters connected to the VEO-SWC45.**

For each transmitter, the following remote controls are available via the web interface:
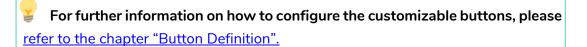
1. **Start/Stop Sharing**: allows starting or stopping content sharing remotely.
2. **Full Screen:** enables the transmitter's display to be maximized.
3. **Mute/Unmute**: manages the audio output of the connected transmitter.
4. **Set as Master Transmitter:** assigns the transmitter as the Master, giving it priority over all other transmitters.

> ⚠️ **Only one transmitter can be assigned as the master for each base unit.**

The Master Transmitter functionality can be configured in:

System Settings → Button Definition → Transmitter Mode → Master, where the VEO 1 and VEO 2 buttons can be customized with the desired functions.

> 💡 **For further information on how to configure the customizable buttons, please** refer to the chapter "Button Definition".

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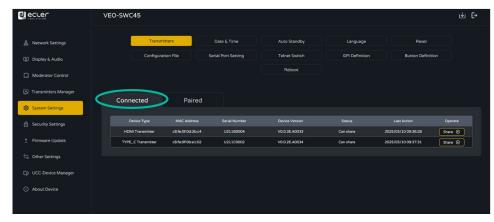
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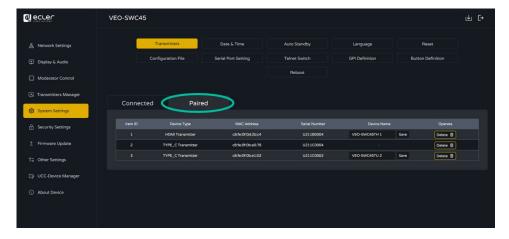
7.5.1 Transmitters

This section **allows to manage VEO-SWC45TH and VEO-SWC45TU transmitters.**

- **Connected:** displays real-time information about active transmitters.

- ○ **Device Type:** identifies whether the device is a USB-C transmitter, HDMI transmitter, or Web App Launcher.
- ○ **MAC Address:** unique network identifier assigned to the device.
- ○ **Serial Number:** manufacturer-assigned unique identifier.
- ○ **Device Version:** indicates the installed firmware or software version.
- ○ **Status:** shows whether the device is currently sharing or ready to share.
- ○ **Last Action:** displays the last date and time the device was actively sharing.
- ○ **Operate:** provides options to start or stop sharing remotely.

- **Paired:** lists all transmitters that have been paired with the VEO-SWC45 and allows management of their settings.

- ○ **Item ID:** unique identifier for the transmitter.

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o **Device Type:** specifies whether the transmitter is a USB-C transmitter and HDMI transmitter.
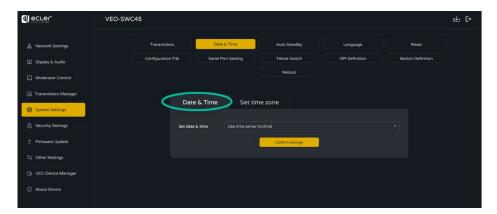
o **MAC Address:** unique network identifier assigned to the transmitter.

o **Serial Number:** manufacturer-assigned unique identifier.

o **Device Name:** allows customization of the transmitter's name. Click Save to apply changes. (Enabled only when the transmitter is connected.)

o **Operate:** option to remove paired transmitters from the VEO-SWC45 base unit.
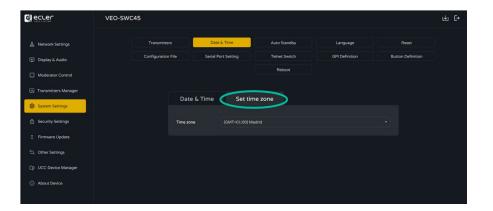
💡 **If the transmitter fails to connect during pairing, remove it from the list of paired transmitters and restart the pairing process. This will reboot the transmitter.**

7.5.2 Date & Time

Includes **Automatic date & time, Set date, Set time, Select time zone**.

- **Automatic date & time**: Check to use a NTP time server to provide time as system time.

- **Set date**: Click in the input filed to fill out the appropriate date.

Select time zone: Click in the Time Zone tab to select the appropriate time zone.
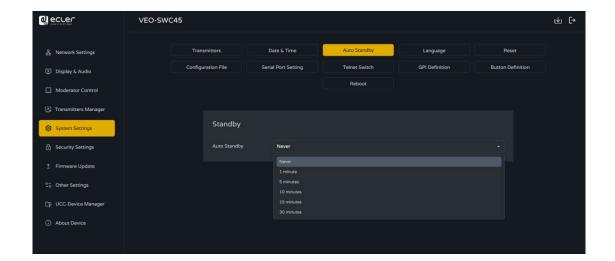
7.5.3 Auto Standby

If the **Auto Standby** mode is **activated, VEO-SWC45 will automatically switch to power saving mode**, a selectable time after the last wireless transmitter was plugged out, or WiFi of a mobile unit was disconnected, or there is no operation at the system. **Time is selectable from Never, up to 30 minutes**. **In Standby green LED in top of surface** of VEO-SWC45 is **flashing** and **HDMI®-output is switched off.**
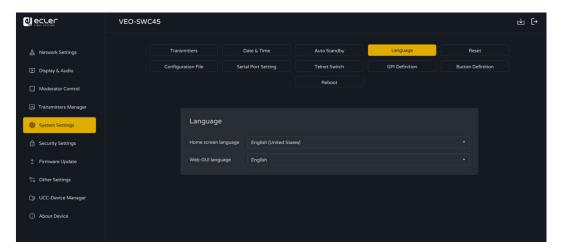
> 💡 • When a **VEO-SWC45TH / VEO-SWC45TU** is **plugged in and connected**, **or a mobile device is connected, Standby is deactivated**.
>
> • **Movement of mouse** at USB-input at VEO-SWC45 base unit **deactivates standby mode** also.

7.5.4 Language

This parameter allows the user to **select the display language**.

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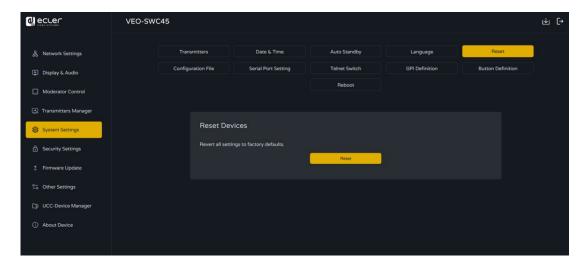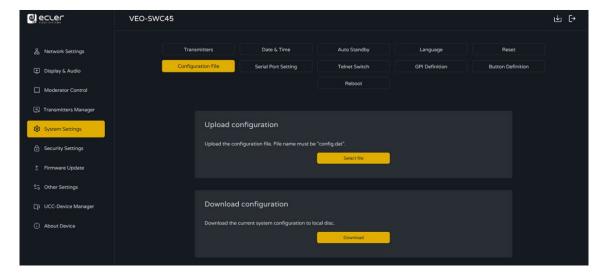
7.5.5 Reset

This parameter allows the user to **perform a Factory reset** to restore the unit.

7.5.6 Configuration File

Configuration File is a **preset which can be downloaded and will save all the configuration parameters set** so they can be loaded to additional devices.

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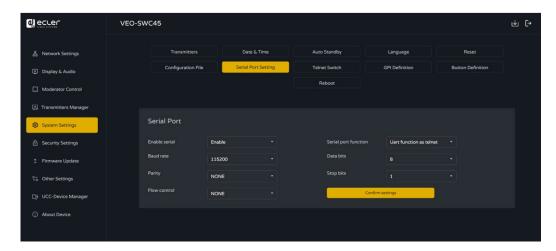
7.5.7   Serial Port Setting

This parameter allows the user to **configure telnet command and RS-232 commands to control VEO-SWC45.**

7.5.7.1 Control commands

VEO-SWC45 can be remotely controlled over RS-232 or Telnet communications protocol.

- **For RS-232 serial communication**, enter the parameters you have selected the on Series Port Setting-screen as mentioned above.
- **For Telnet communication over TCP commands**, enter the current VEO-SWC45 base unit IP address and Port: 23.

> ⚠
> - For **commands with more than one word**, a **blank space is required** between each word.
> - Commands **are not cap sensitive**.
> - **For EclerNet Manager integration**, it is important to **type commands following the next syntaxis example**: |tcp|<IP address>|port|\d1<command code>\r\d3|

Command Code	Description	Command Example
help	List all commands.	
home	Goes back to Home Screen.	
wifi on	Turns VEO-SWC45 WiFi hotspot ON.	
wifi off	Turns VEO-SWC45 WiFi hotspot OFF.	
wifi channel	Sets VEO-SWC45 WiFi hotspot channel.	
wifi ssid xxx	Sets VEO-SWC45 WiFi hotspot SSID name. xxx is the name of the SSID.	wifi ssid MeetingRoom

wifi pass xxx	Sets a specific VEO-SWC45 WiFi hotspot SSID password. xxx is the name of the SSID. 8 digits password.	wifi pass 01234567
wifi list	Lists all devices connected to the VEO-SWC45 WiFi hotspot.	
wifi amount	Shows how many devices are connected to the VEO-SWC45 WiFi hotspot.	
volume xx	Sets the chosen volume level on the VEO-SWC45 line out. Available options 0 -100.	
volume ?	Shows the current volume status on the VEO-SWC45 line out.	
mute on	Turns on mute on VEO-SWC45 line out.	
mute off	Turns off mute on VEO-SWC45 line out.	
mute ?	Shows the current mute status on the VEO-SWC45 line out.	
standby wakeup	Wakes up VEO-SWC45.	
standby set xxx	PARAMETERS DESCRIPTION Where "xxx" can be the following: • off: Turns the standby timeout of the VEO-SWC45 off. • timeout: Sets the available timeout time figure (in minutes) before VEO-SWC45 is turned off. Available options are 1,5,10,15,30.	standby set off standby set 5
button lc	Lists the wireless transmitters and VEOShare devices connected details.	
button lcd	Lists the wireless transmitters and VEOShare devices disconnected details.	
button ls	Lists the wireless transmitters and VEOShare devices that are currently sharing screen with VEO-SWC45.	
button la	Lists the wireless transmitters and VEOShare devices that are connected and disconnected.	
button share xxx	Starts screen sharing for the selected wireless transmitter or VEOShare device. xxx is the chosen device's mac address which can be found on the web settings section referred in Button Definition chapter.	button share 307bc9b251e0
button stop xxx	Stops screen sharing for the selected wireless transmitter or VEOShare device. xxx is the chosen device's mac address which can be found on the web settings section referred in Button Definition chapter..	button stop 307bc9b251e0

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login xxx	Login to Telnet system.	login Admin
statusbar show	Shows the status bar on the Home screen.	
statusbar hide	Hides the status bar on the Home screen.	
pass refresh	Changes the current password key available to connect to VEO-SWC45 shown in the Home Screen.	
pass ?	Shows the current password key available to connect to VEO-SWC45 shown in the Home Screen.	
security x	Sets the current security profile selected for the VEO-SWC45. Available options are 1,2,3,4.	security 3
security ?	Shows the current security profile selected for the VEO-SWC45.	
pair remove xxxx	Removes the chosen wireless transmitter. xxx is the chosen device's mac address which can be found on the web settings section referred in Button Definition chapter.	pair remove 307bc9b251e0
pair ?	Shows the wireless transmitter and VEOShare devices paired details.	
forceshare xxx	Make one transmitter go full screen share. xxx can be ip, name, or 1,2,3,4.	forceshare 3
floatmenu xxx	Enable/Disable the sidebar menu on the home screen. 1: Hide side bar completely (including arrow) 2: Small menu (no preview windows) 3: Large menu (show preview windows)	floatmenu 3
lockscreen on	Enables screen lock.	
lockscreen off	Disables screen lock.	
dualmode	Enables the displays to work in mirroring or 4+1 or 1+4. 0: mirroring 1: 4+1 2: 1+4	dualmode 0
usb mode xxx	Change between cameras.	usb mode 1
usb switch xxx	Switches between **wireless conferencing mode** and **USB Hub mode**.	usb switch 1

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7.5.8   Telnet Switch

This section allows the user to **switch on or off the telnet function**.

7.5.9   GPI Definition

The device has **two GPI inputs that support a maximum 5V power frequency**. The function of each input port **can be customized** based on user needs.

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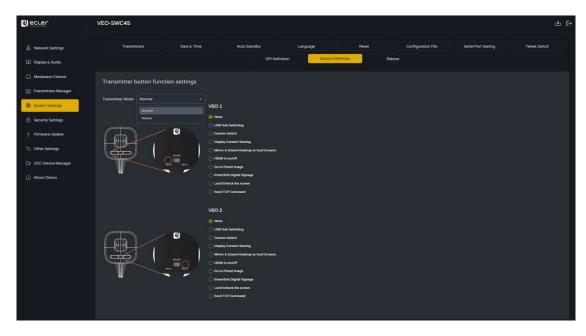
7.5.10 Button Definition

The **VEO-SWC45TH and VEO-SWC45TU transmitters have two customizable buttons**, VEO 1 and VEO 2**, with two configuration modes**.

- **Normal Mode:** applies the same button settings to all transmitters.
- **Master Mode:** applies the settings only to the Master Transmitter.

Available Customizable Functions:

- **None:** no action assigned to the button.
- **USB Hub Switching:** switches between wireless conferencing mode and USB Hub mode.
- **Camera Switch:** toggles between available cameras in wireless conferencing mode.
- **Display Content Sharing:** opens the local display window (only in wireless conferencing mode).
- **Mirror and Extend Desktop to Dual Screens:** allows a laptop to cast two streams to dual screens—one mirrored and one extended. PC and VEO-SWC45 must be on the same network.
- **HDMI IN On/Off:** toggles the HDMI IN input.
- **Go to Preset Image:** displays a custom image or a black screen (if no image is loaded).
- **Enter/Exit Digital Signage:** activates or deactivates digital signage mode.
- **Lock/Unlock the Screen:** controls screen lock status.
- **Send TCP Command:** sends a predefined TCP command for automation or control.

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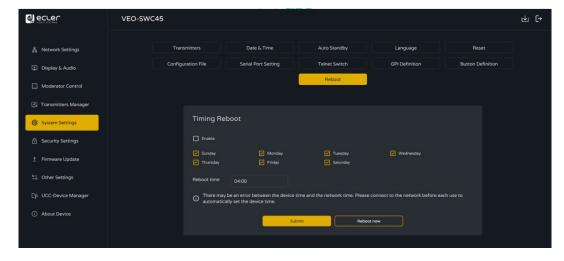
7.5.11 Reboot

This section allows the user to **execute a random reboot and schedule a rebooting routine for a given week**.

7.6 Security Settings

7.6.1 Security Level

Based on user requirements, **three different security levels can be set** to satisfy different security requirements.

Click on the corresponding entry in the menu **to adjust the respective security features**. The **default setting is level 1**.
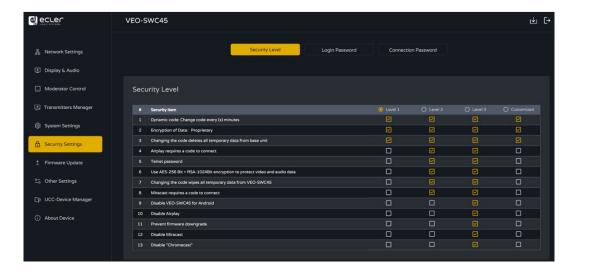
- **Level 1**: **normal safety**; keeps the security in normal and daily usage for any organization, such like classroom, regular meeting room etc.

- **Level 2**: **higher security**; provides increased security for companies, organizations, government agencies, etc., through powerful encryption of audio and video data; other security features include limiting the transmission of "AirPlay" by introducing a password.

- **Level 3**: is used for **strict security** requirements of companies, organizations, authorities, banks.

  This level contains all "Level 2" security measures and in addition, all mobile applications as well as the web settings GUI will be blocked. In addition, the downgrade of the firmware will not be possible.

> 💡 The **security level will be displayed in the Home Screen** clicking on the icon ⊘.
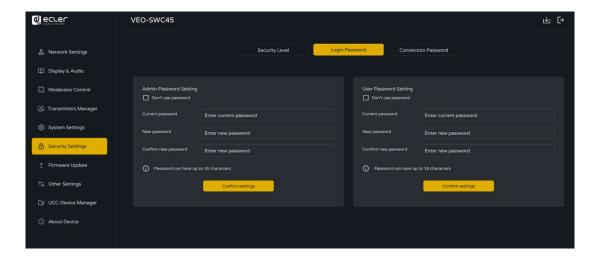
7.6.2   Login Password

This section allows the user **to change password to entering web settings GUI for the admin and user profile.**

💡 **Default password for Admin profile is "admin" and for User profile is "user".**

- **No Password:** when enabled, login to the web interface is allowed without a password.
- **Current password:** enter the existing login password of the base unit.
- **New password:** set a new password for the base unit.
- **Confirm New password:** re-enter the new password to confirm the change.

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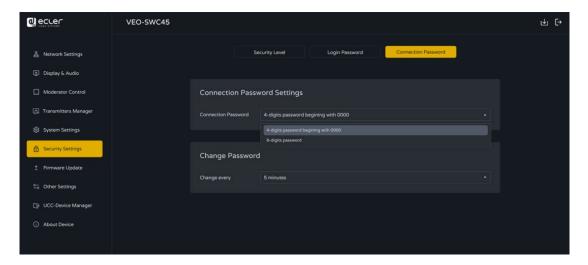
7.6.3   Connection Password

The password remains unchanged for all participants of the meeting, while at least one wireless transmitter or mobile device is connected to VEO-SWC45 base unit. After the user is disconnected, a configurable timeout will start. It can be configured to automatically change WiFi password to a random number every period of time.

> 💡 **It is not necessary to re-pair the VEO-SWC45TH / VEO-SWC45TU again if the password is changed.**

Connection Password Settings: two type of password format can be chosen to be displayed on Home Screen.

- **4-digits password**, beginning with 0000
- **8-digits password**

Change Password: set time configuration.

- **Never:** never change WiFi password. (Even after POWER-OFF condition).
- **5 minutes:** change WiFi password every 5 minutes.
- **30 minutes:** change WiFi password every 30 minutes.
- **1 hour:** change WiFi password every 1 hour.
- **2 hours:** change WiFi password every 2 hours.
- **4 hours:** change WiFi password every 4 hours.
- **24 hours:** change WiFi password every 24 hours.
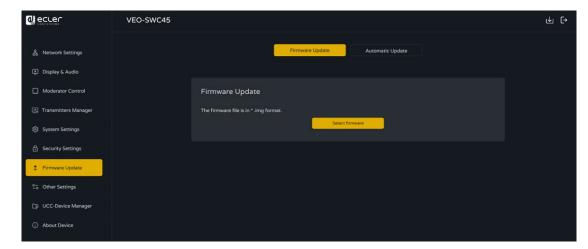
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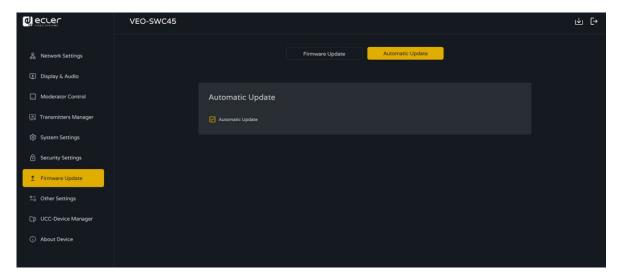
7.7.1 Firmware Update

This section allows the user to **upload local updating files to upgrade VEO-SWC45**.

7.7.2 Automatic Update

This section allows **to choose upgrading from OTA via Internet or from local files**.

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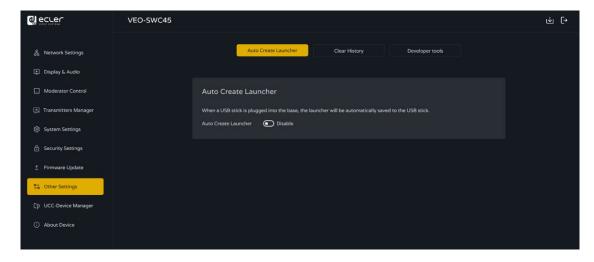
7.8 Other Settings

7.8.1 Autocreate Launcher

Determines, when **using a USB memory at one USB-port of Base-unit**, the **Launcher program VEOShare will be copied automatically on USB memory**. Enable or disable this option according to your preferences.
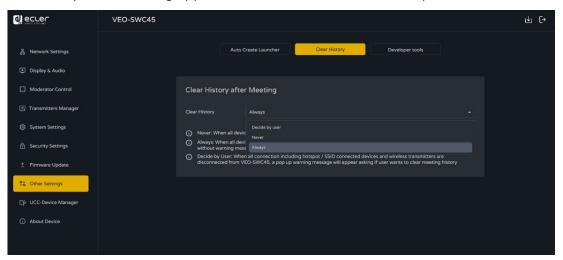
7.8.2 Clear History

Pictures, videos, music of mobile units will be stored in memory of Base-unit. This memory **can optionally be erased, at the end of a meeting**, when the wireless transmitter is pulled from the Laptop / PC.

Settings are:

- **Never**: storage space is automatically erased when memory is filled for 90%.
- **Always**: memory is automatically deleted.
- **Decide by User**: a dialog appears when wireless transmitter is pulled.
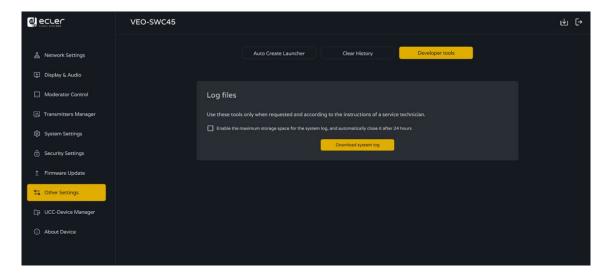
7.8.3 Developer tools

This option allows **to capture logs when an issue occurs**. **Click Download System Log, and the system will automatically start downloading the log file.**
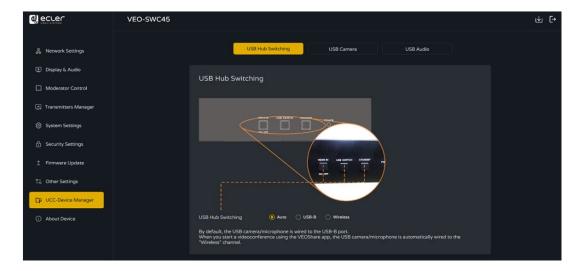
7.9 UCC Device Manager

This section allows the user **to select and monitoring UVC and UAC devices connected** to the VEO-SWC45 base unit.

7.9.1 USB Hub Switching

The user **can choose whether USB Hub Switching is automatic, fixed to USB-B, or set to Wireless**.

By default, the USB camera and microphone are connected to the USB-B port. When a videoconference starts using the VEOSHARE application, they automatically switch to the Wireless channel.

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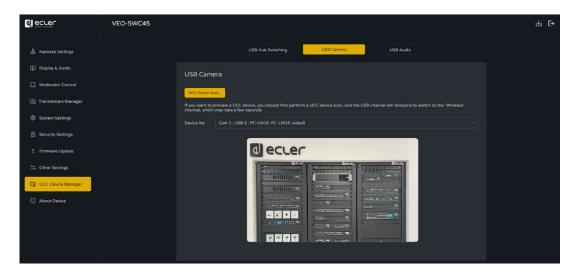
7.9.2   USB Camera

This section allows the user to **select and see a preview of the current USB video** devices.
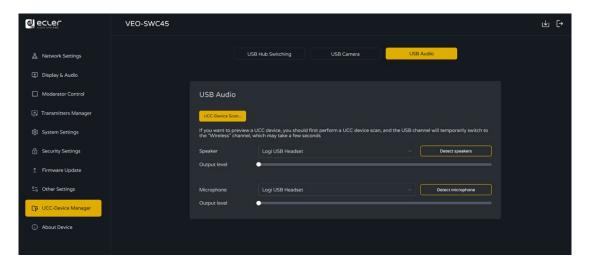
⚠️ **Please note that only USB cameras are supported.**

7.9.3   USB Audio

Allows the user to **select and see a preview of the current USB audio** devices.

⚠️ **Please note that only USB microphones are supported.**

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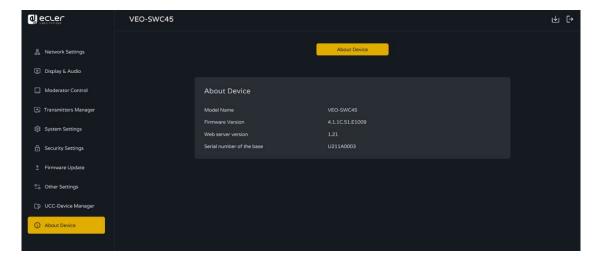
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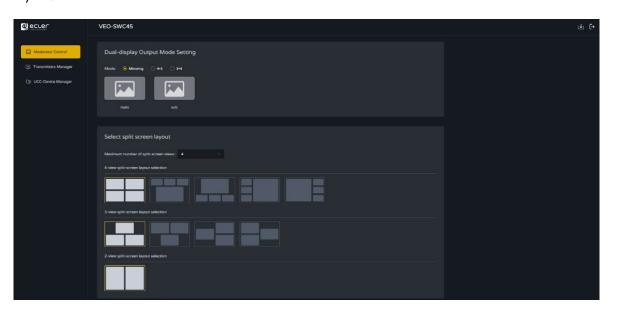
This section displays information about the device, such as model name, firmware version, web server version and serial number.

7.11   User interface

7.11.1 Moderator Control

The **Dual-Display & Multiview Layout** section describes how the VEO-SWC45 supports dual-screen setups, allowing up to 5 simultaneous images and customizable split-screen layouts.

💡 **Please refer to** <u>Multiview Layout</u> **and** <u>Dual-display</u> **chapters and for further information.**
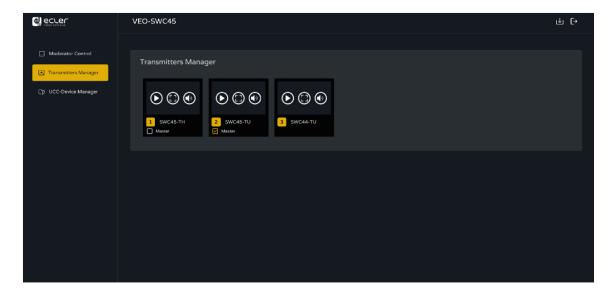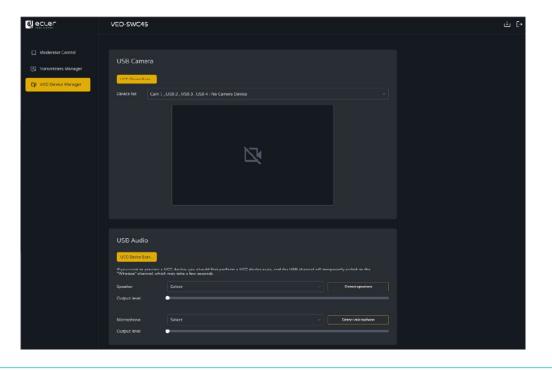
7.11.2 Transmitters Manager

The **Transmitters Manager controls all transmitters connected to the VEO-SWC45**, allowing remote management of sharing, screen size, audio, and master assignment. For further information, refer to the [Transmitters Manager chapter.](#)

7.11.3 UCC-Device Manager

This section **allows the user to select and preview the current USB video and audio devices**.

⚠️ **Please note that only USB cameras and microphones are supported.**

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There are **three different elements** that **can require firmware updating**:

- Base unit:
  - **VEO-SWC45**
- Wireless transmitters:
  - **VEO-SWC45TH**
  - **VEO-SWC45TU**
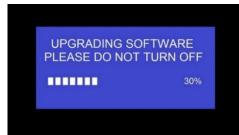
⚠️ All **software is stored in VEO-SWC45 base unit** and later transferred to the rest of the elements. **After updating the VEO-SWC45 base unit, it is necessary to check whether the other parts need to be updated as well.**

8.1 Upgrading Firmware version of VEO-SWC45

- **External USB storage drive:**
  1. **Copy** the updating file "**update.img**" **to the root directory** of the USB drive.
  2. **Connect the USB drive** to either USB 2.0 front port of VEO-SWC45 base unit.
  3. VEO-SWC45 recognizes the "update.img"-file at the plugged-in USB stick automatically and **starts the "Full Update" procedure**. USB stick can be plugged out within 10 seconds to stop the update.

     ⚠️ **Do not disconnect power during upgrading progress**. Otherwise, the unit firmware will be corrupted.

  4. The **upgrading progress displays** as shown, and the VEO-SWC45 will reboot automatically after completing the updating.

     UPGRADING SOFTWARE
     PLEASE DO NOT TURN OFF
     ▮▮▮▮▮▮ 30%

     ⚠️ **During the update, screen can be temporary dark**.
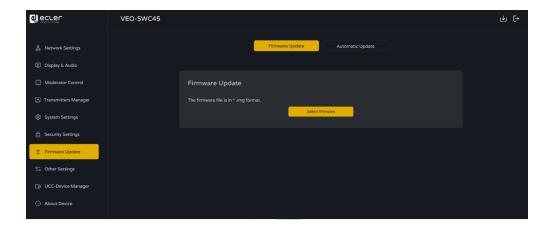
     ⚠️ **If the progress bar stops at 1%, use another USB stick, since this one may be defective**.

  5. The display device shows the Home Screen after normal boot of the device, you can disconnect USB stick.

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6. **Perform "Factory Reset"** when the **firmware update is completed.**

- **Web settings:**

    1. Browse to "**Firmware update**" section on Web Settings.

    2. Select a "**update.img**" file.
    3. The **upgrading progress displays** as shown below, and the VEO-SWC45 will reboot automatically after completing the updating.

    4. The **display device shows the Home Screen** after normal boot of the device,
    5. Perform "**Factory Reset**" when the firmware update is completed.
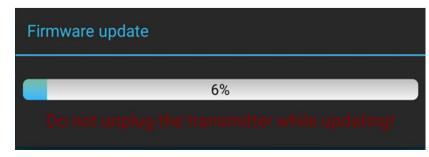
8.2 Upgrading Firmware version of VEO-SWC45TH / VEO-SWC45TU

1. **Plug the VEO-SWC45TH / VEO-SWC45TU** to the according USB front port of VEO-SWC45 to be updated. It will **automatically display up a message to indicate if** the installed firmware of wireless transmitter is older and **needs to be upgraded.**

2. The **upgrading progress starts automatically** with the progress bar.

   Firmware update

   6%

   Do not unplug the transmitter while updating!

3. "**Pairing**" to the VEO-SWC45 base unit **is done automatically** afterwards.

   Firmware update

   100%

   Update and pairing successful, please unplug the transmitter!

   Exit

4. **Upgrading progress is finished.** Plug out the wireless transmitter (VEO-SWC45TH / VEO-SWC45TU) and **it is now ready to use**.

9. PANEL and WIRELESS TRANSMITTERS FUNCTIONS

9.1 Front Panel

1. **Power LED:** lights green when the device is on and red when off.

2. **Standby button:** turns the device on or off.

3. **USB Switch button**: switch USB devices between "USB-B" and "wireless" host PC.

4. **HDMI IN**: click to toggle full-screen display for the HDMI® input.

5. **USB-C**: for pairing VEO-SWC45TU with VEO-SWC45.

6. **USB 2.0:**
   - To connect USB 2.0 devices
   - For pairing VEO-SWC45TH with VEO-SWC45.
   - To connect a Flash drive or mouse for control.

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9.2 Rear Panel
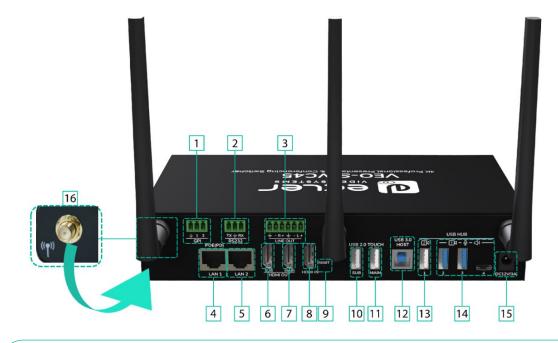
1. **GPI:** two GPI inputs, supporting up to 5V. Function configurable via Web.
1. **RS-232:** sends and receives serial RS-232 commands for device control.
2. **Line out:** balanced analog audio output via a 6-pin Euroblock connector.
3. **LAN 1 (PoE (PD)):** Ethernet port 1000Mbps and supports POE+.
4. **LAN2:** Ethernet port 1000Mbps.
5. **HDMI sub screen output:** supports up to 1080P.
6. **HDMI main screen output:** supports up to 4K@60Hz.
7. **HDMI IN (input):** supports up to 4K@30Hz.
8. **Reset:** Reset button to restore to the factory default setting. For further details, please <u>refer to "Factory Reset Using Rear Panel Button" chapter.</u>
9. **Sub screen USB 2.0 touch interface:** to connect the touch screen from the sub screen.
10. **Main screen USB 2.0 touch interface:** to connect the touch screen from the main screen.
11. **USB 3.0 Host:** the camera that has been connected to the base unit can be switched through this port and used by other computers such as Room PC.
12. **USB 2.0:** connect compatible cameras and microphone devices for video conferencing. It should be noted that if two cameras are connected, one of them must be connected to this port.
13. **USB 3.0:** Hub to connect compatible camera and microphone devices for video conferencing.
14. **DC power socket:** 12V DC power supply.
15. **Antennas:** connect the three antennas provided to use Miracast and built-in WiFi functionality. The antennas can rotate for a better covering.

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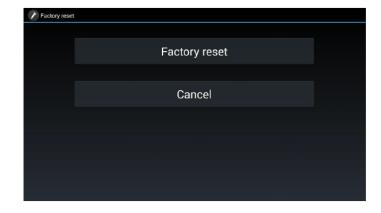
9.2.1 Factory Reset Using Rear Panel Button

By using this function, all previous settings will be lost, and you will need to do the set-up once more.

Start up the VEO-SWC45. When the Home Screen is displayed, press the reset button at the rear panel of VEO-SWC45. Press this button **with a pointed object**, e.g., an unbent paper clip for at least 2 seconds, **until the "Factory Reset" page is displayed** as below.

The **VEO-SWC45 will reboot after 3 seconds** to be default configuration.

💡 **If VEO-SWC45 HDMI® output is not connected to a display and no picture is available, press and hold the reset button** until the red LED indicator on the top surface of VEO-SWC45 lights up to execute the reset process.

Factory Default Configuration is as following:

- **Wireless Network Configuration:**
  - o Wi-Fi Interface Mode: AP(Access Point)MODE
  - o SSID discovery and connection: Yes
  - o Frequency: 5GHZ
  - o Channel: 36

- **Ethernet Network Configuration:**
  - o LAN1 DHCP: Enabled
  - o LAN2 DHCP: Enabled

- **Advanced Settings:**
  - o Internet Access setting: Allow network bridging to LAN 1

- **Display & Audio**
  - o HDMI:
    - ▪ Resolution:
      - • Main: Auto
      - • Sub: Select

- CEC:
  - Control Base by Display: OFF
  - Control Display by Base: OFF
- Audio:
  - Audio output: Jack&HDMI®
  - Audio Volume: 100%
- Native protocol:
  - Airplay:
    - Enable Airplay: ON
    - Airplay Screen Quality: HIGH (1920x1080)
  - Miracast:
    - Enable Miracast: ON
    - Enable MS-MICE: OFF
  - GoogleCast:
    - Enable Chromecast: ON
- Start Screen:
  - Show the base device name and password when mirroring: OFF
  - Show PCs username when mirroring: ON
  - Hide IP when using a background image other than the default one: OFF
  - The source video appears on the home screen immediately when connected to the HDMI IN port: OFF
- Shortcuts settings:
  - Display or hide settings: All hidden information will reappear after the reset
  - Display "Security Level" icon: ON
  - Display "Download" icon: ON
  - Display "Information" icon: ON
  - Display Home Time: ON
  - Display Home Icon: ON
  - Display Home SSID Info: ON
- Screen Share:
  - Lock / unlock Screen Share: OFF
  - Hide / Show the lock icon when locking: OFF
  - Start HDMI IN in full screen when selected: OFF
  - Preset Image Display: OFF
- Home Background Image:
  - Text Color: Black

- **Moderator Control**
  - Sidebar Settings:

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- ▪ Real Time Preview: ON
- ▪ Moderator Sidebar: Large menu (show preview windows)
  - o Multiview Layout: Maximum number of split-screen views: 4
  - o Dual-display Output Mode Setting: Mirroring
  - o Digital Signage: OFF

- **System settings**
  - o Date & time: Use time server (online)
  - o Auto Standby: Never
  - o Language:
    - ▪ Home screen: English (United States)
    - ▪ Web-GUI: English
  - o Serial Port Setting:
    - ▪ Enable Serial: Enable
    - ▪ Baud rate: 115200
    - ▪ Parity: NONE
    - ▪ Flow control: NONE
    - ▪ Serial port function: Uart function as telnet
    - ▪ Data bits: 8
    - ▪ Stop bits: 1
  - o Telnet Switch: Enable telnet: ON
  - o GPI Definition:
    - ▪ GPI 1 function settings: USB Channel switching
    - ▪ GPI 2 function settings: USB Channel switching
  - o Button definition:
    - ▪ Transmitter mode: Normal
      - • VEO 1: None
      - • VEO 2: None
    - ▪ Transmitter mode: Master
      - • VEO 1: Go to Preset Image
      - • VEO 2: Lock/Unlock the screen
  - o Reboot: Timing Reboot: OFF

- **Security Settings**
  - o Security Level: Level 1
  - o Connection password:
    - ▪ Connection Password Mode: 4-digits password beginning with 0000
    - ▪ Auto Change Password: 5 minutes

- **Firmware Update**
  - o Automatic update: ON

- **Other settings**

  - Auto create launcher: Disable

  - Clear history after meeting: Always

  - Developer tools: Log files: OFF

- **UCC-Device Manager:**

  - USB Hub switching: Auto

  - USB Camera: Cam 1, USB 2, USB 3, USB 4

  - USB Audio:

    - Speaker: Select

    - Output level: 0%

    - Microphone: Select

    - Output level: 0%

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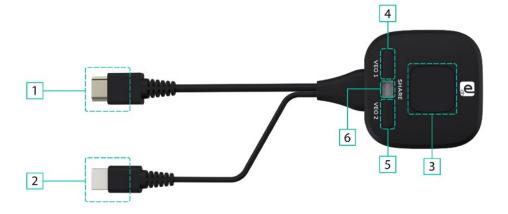
9.3 Wireless Transmitters

9.3.1 VEO-SWC45TH

1. **HDMI® connector:** Plug HDMI® connector into the computer for screen sharing.

2. **USB connector:** Plug into computer for power supply or plug into the VEO-SWC45 for pairing or upgrade the wireless transmitter.

3. **Share Button:** Click the button to start sharing.
   - Click once to toggle screen sharing.
   - In Multiview, hold the button to share in full screen.

4. **VEO 1 Button:** Customizable button. For further details, please refer to "Button Definition" chapter.

5. **VEO 2 Button:** Customizable button. For further details, please refer to "Button Definition" chapter.

6. **LED indicator:** Indicates the status of the wireless transmitter. For further information, refer to "Led Indicator" chapter.

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9.3.2 VEO-SWC45TU

1. **Type C (DP)connector:** Plug into computer for screen sharing or plug into the VEO-SWC45 for pairing or upgrade the wireless transmitter. For further connector compatibility information, see connection diagram chapter.

2. **Share Button**: Click the button to start sharing.

   - Click once to toggle screen sharing.

   - In Multiview, hold the button to share in full screen.

3. **VEO 1 Button:** Customizable button. For further details, please refer to "Button Definition" chapter.

4. **VEO 2 Button:** Customizable button. For further details, please refer to "Button Definition" chapter.

5. **LED indicator:** Indicates the status of the wireless transmitter. For further details, please refer to "Led Indicator" chapter.

💡 **VEO-SWC45TU is full function type-C interface** with DP Alt mod compliance, which **supports audio and video transmission.**

9.3.3 LED Indicator

VEO-SWC45TH

VEO-SWC45TU

- VEO-SWC45TH / VEO-SWC45TU **connected to VEO-SWC45:**

  First of all, a VEO-SWC45TH / VEO-SWC45TU **must be connected to the VEO-SWC45 base unit one at a time.**
  - o When LED indicator is **blinking Green**: the VEO-SWC45TH / VEO-SWC45TU is pairing with VEO-SWC45 base unit or firmware upgrading.
  - o When LED indicator is **static red**: pairing is done. VEO-SWC45TH / VEO-SWC45TU can be unplugged and ready to use.

- VEO-SWC45TH / VEO-SWC45TU **connected to a source device:**

  First of all, a VEO-SWC45TH / VEO-SWC45TU **must be connected to the source device**. For example, to a PC:
  - o When LED indicator **is blinking Green**: the VEO-SWC45TH / VEO-SWC45TU is plugged into the computer and connecting to VEO-SWC45 base unit.
  - o When LED indicator is **static green**: it is connected to VEO-SWC45 base unit and ready for screen sharing.
  - o When LED indicator is **static red**: screen sharing.

10. TROUBLESHOOTING

Here you can find **some common issues and their possible causes**, which can be happen **during the use of the device**. **Please check the table below to find out the problem in the table below and apply the indicated solution.**

Problem	Cause	Solution
Using VEO-SWC45 for Android application in Android device or Airplay on iOS device, it can't find VEO-SWC45 device.	WiFi password of VEO-SWC45 changed when android or iOS device is connected to the WiFi of VEO-SWC45.	Reconnect the mobile by entering password displayed on Home Screen.
Image quality on the main display screen is not good.	The quality or length of the cable between the VEO-SWC45 and the display or the connection between these two.	• Replace the cable • Use another cable. • Check the cable to be fasten properly.
	Improper resolution for the main screen.	Change the resolution on the Setting configuration and match it to the native resolution of the main screen. See chapter Display & Audio.
Bad wireless connection. The connection between the transmitter and the VEO-SWC45 is not stable.	WiFi problems. • Interference in the radio channel. • Overload in the radio channel. • VEO-SWC45 does not automatically jump to other channels when there are changes in the RF environment.	• Use a WiFi scanner to find a free wireless frequency and channel and select it via the setting configuration. • Regularly check the RF environment if there are frequently changes in WiFi networks in your environment.
	Low signal strength: • Metal cabinets, walls, construction elements, can cause reflections deteriorating the wireless signal. • Obstacles between wireless transmitters and VEO-SWC45 cause lowering of the wireless strength and quality.	• Put the VEO-SWC45 closer to the main screen. • Change the orientation of the antennas at the rear panel of VEO-SWC45 to the transmitter direction. • Remove or limit as much as possible all obstructions between the transmitters and VEO-SWC45. • Avoid placing the Base-unit in (metal) cabinets, suspended ceilings, under tables or in adjoining rooms.

Cannot get the VEOShare run when plug the transmitter to Laptop.	When you are using VEO-SWC45" for the first time on your laptop or for guests, you must copy the Launcher program VEOShare for first on your Laptop / PC. Run this Starter-program. You can run the Starter Application without Admin-rights.	There are 2 possibilities to load the Launcher program, see chapter System Settings. The best is: to download the Application via LAN or WiFi of Base-unit. When the Launcher program is preinstalled one time, VEOShare is ready to use later immediately.
	Bad connection at USB port on the Laptop.	• Reconnect to the USB port. • Try another USB port. • Reboot the Laptop.
	Some types of USB devices might be blocked as the company policy. USB port setting on the Laptop might limit the usage of high power USB device when on battery power.	If possible, change the USB port policy on the Laptop.
Low video performance (sharpness, audio and video dropouts, video stream is jerking, …)	• The media-player is not ideal. • The video quality also depends on the computing power of the PC / laptop and the interaction and CPU load with other running software applications. • A laptop in battery mode can be switched to reduced computer power, to save energy. The transmission of HD video requires a certain amount of CPU power to guarantee the optimum quality of the transmission.	• Use another media-player (VLC player…), another browser. • Update the software of your Video-player to the latest version. • Reduce the CPU usage of other software applications. • Lower the screen resolution of the laptop. • Update driver of graphic card. • End low power mode at laptop.
Video is not shown on screen	The content use HDCP	VEO-SWC45 input cannot support showing HDCP source. If possible, connect the source device to local HDMI® input at VEO-SWC45.
	The display cable (HDMI®) is not correctly connected.	Insert the display cable to the display and the Base-unit.
	The displays are switched off.	Switch on the display.
	The VEO-SWC45 base-unit is in standby mode, "Power-LED" is flashing at VEO-SWC45 Power-supply is missed.	Power off and on again or insert a wireless transmitter into laptop.

When using Windows 7, the following message about the Window Aero colour scheme appears "Windows has detected your computer's performance is slow. This may occur because there are not enough resources to run the windows Aero colour scheme.	VEO-SWC45 uses resource from the GPU. In combination with other programs which do so, Windows 7 sometimes displays this message suggesting disabling Aero to improve the performance of Laptop.	It is safe to ignore this message and choose "Keep the current colour scheme."
Your content is removed from the display and the LEDs on the button are blinking.	Connection to the VEO-SWC45 is lost.	VEO-SWC45 tries to restore the connection automatically. If it fails, the LEDs on the button start blinking red. Unplug the button from your computer and try a new button.
Nothing is shown on the displays at all	The displays are switched off.	Switch on the display
	The display cable is not correctly connected.	Insert the display cable to the display and the VEO-SWC45.
	The VEO-SWC45 is in standby mode.	Briefly push the standby button on the VEO-SWC45 or power off and on again the VEO-SWC45.
The system remains locked after stopping screen sharing with a transmitter that had the **Lock/Unlock the Screen** function assigned to a VEO button.	When all transmitters are set to **Normal Mode**, assigning **Lock/Unlock the Screen** to a button can cause the system to stay locked indefinitely after stopping sharing.	Go to **Display & Audio → Screen Share → Lock/Unlock Screen Share** to unlock the system. Alternatively, set one transmitter as **Master Transmitter** and use its assigned button to unlock the system.
No LAN connection with the VEO-SWC45.	Wrong IP address.	• IP address is not within LAN range. • DHCP is not enabled.

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No WiFi connection between mobile device with VEO-SWC45.	Wrong WiFi frequency.	Check mobile device to select the correct 2.4GHz or 5GHz
	Wrong SSID and password	Enter the correct SSID.
No audio when transmit local file to VEO-SWC45.	Unsupportive audio format, including Dolby MS11, DDCO DTSLBR, DTSE, SRS-THEATERSOUND, DTS_StudioSound3D, DTS_HD.	If possible, reformat it to the other audio format, like DD, DD+, HE-AAC, DTS DMP, WMA, DRA, COOK
There is no sound at main display.	No connected audio device.	Make sure, the audio is turned on.
	Volume is set to OFF.	Adjust the volume level at Options in menu of VEO-SWC45.
	The volume level is set too low in the options of the VEOShare application program on PC.	Adjust the volume in the VEOShare application on PC.
	Audio signal may be muted.	Click with right-mouse button at speaker icon in taskbar and switch on.
	The volume level is set too low.	Adjust the volume level at Options in menu of VEO-SWC45.
	Audio is muted in mixer of volume in taskbar.	Right-mouse click at speaker icon in taskbar, open mixer and unmute VEO-SWC45 or "Video Playback".
	The software of used Video-player is not actual.	Update Video-player. Try another player.
	An active virus scanner can block the Audio.	Check the filter-settings in Virus scanner. De-activate the player for a check.
There is no sound with MacBook.	Problem of sound-flower Application, which is integrated in driver VEOShare application.	• You need Admin-password. • Go to the macOS System Preferences and select the "Security & Privacy" tab. Find the "allow to run/install the sound-flower" there click on "Allow" next to "Matt Ingalls", to allow this sound-flower to install on the Mac Book. • Run the VEOShare application again, it'll auto-install the sound-flower to the MacBook.

There is no sound via AirPlay.	The volume is set too low, on the mobile device.	Increase the volume on the mobile device.
There is no sound at main-screen, when mirroring a video by the Application "VEOShare for Android".	Due to the limit of the Android system, Android doesn't provide an interface to capture the audio. In this case, there is no sound when mirroring the video.	Use wireless transmitter or Apple Airplay to do mirroring when necessary.
Cannot update firmware of the VEO-SWC45.	Flash disk format is NTFS.	Please re-format the flash disk to be FAT format to update it.
Cannot work airplay with MacBook / iPhone / iPad.	Operation System Requirement Mac OS 10.9 iOS 8.0 and later (VEOShare application).	• To use AirPlay, you must connect the iOS device to the WiFi of VEO-SWC45 and enable the AirPlay feature in the Control Center. • Update the iOS device to a newer operating system.
Poor Video-quality with AirPlay.	There are 2 states for AirPlay: a.) Mirroring: 1: 1 copy of the screen b.) Streaming: Videos (Internet, Youtube); the image will not be displayed on the iOS device.	Reduce "Quality" in settings of Youtube, for example from "Automatic" to 720p.
Cannot work with Android device.	Operation System Requirement Android 2.3 and later (VEOShare application).	Update to the later OS.

💡 **If the problem persists, please** contact our technical support service.

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11. TECHNICAL DATA

11.1 Technical Specifications

11.1.1 VEO-SWC45

VEO-SWC45

Video Performances	
Video Input Connectors	2 x USB 3.0, 1 x USB-C, 1 x USB 2.0 (UVC)
	1 x HDMI® Type A Female, 10.2Gbps
Video Output connectors	1 x HDMI® Type A Female, 1.4, 10.2Gbps (SUB)
	1 x HDMI® Type A Female, 2.0, 18Gbps (MAIN)
Video Input Resolution	1080p up to 30Hz (Airplay, Miracast, Chromecast, "VEOShare" application),
	4K up to 30Hz (HDMI® and USB-C Transmitters, HDMI® IN),
	80-120ms Transmission Delay
Video Output Resolution	MAIN: 720p, 1280x800/60Hz, 1080p up to 60Hz, 1900x1200/60Hz, 4K up to 60Hz
	SUB: 720p, 1280x800/60Hz, 1080p up to 60Hz, 1900x1200/60Hz
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0
Colour Depth	8-bit (4K 60Hz 4:4:4)
Colour Space	RGB, YCbCr, YUV
HDCP	MAIN OUT: 2.2
	SUB OUT/HDMI® IN: 1.4
Video Composing Capabilities	Multiviewing up to 5 windows; 15 participants on hold
Screen Mirroring	Airplay, Chromecast, Miracast, VEOShare application, Wireless Transmitter
Wireless Conferencing	Yes (Video Playback Frame Rate: 20-60fps)
Other Features	Whiteboard annotation tool, Wireless Touchback, Customizable background, CEC compliant
HDMI® Distance	5m with Ecler VEO Cables
Audio Performances	
Audio Output Connectors	1 x 6-pin balanced Euroblock
Audio Formats	PCM
Sample Rate	Wireless Transmitter: 44.1 KHz, 48khz
	HDMI® out: 48KHz
	USB speakerphone for video conference: 16KHz
	USB speakerphone for audio out: 48KHz
Bit Depth	Up to 24-bit
Frequency Response	20Hz-20KHz (±3dB)
Audio De-Embedding	Yes
Device Control	
Control Connectors	1 x USB Type A, 1 x 3-pin Euroblock, 2 x RJ-45
Control Protocols	Web, Telnet, RS-232, GPI
Control Buttons	1 x Standby button, 1 x Reset button, 1 x HDMI® IN on/off, 1 x USB Switch
Status Indicators	Power LED

Network	
Network Connectors	2 x RJ-45 (1Gbps), WIFI IEEE 802.11 a/g/n/ac/ax (Antennas MIMO 2x2, MIMO 1x1)
Network Requirements	Compatible with 2.4 GHz and 5GHz frequency bands with 35m coverage (environment dependant), Security: AES, WPA PSK, WPA2 PSK, HTTPS
Average Streaming Bitrate	Up to 1200Mbps
Transmission Distance	100m via Ethernet Network

Electrical	
Power Supply	PoE+ (IEEE802.3at.); External: Input 100-240 VAC 50/60Hz, Output: 12VDC-3A
AC Mains Connector	External PSU. Included 4 region power blades (UK,US,AU,EU)
DC Mains Connector	12VDC-3A with coaxial DC connector
Power Consumption	30W

Physical	
Operating Temperature	Min: -20°C ; -4°F
	Max: 60°C ; 140°F
Operating Humidity	20% - 90% RH, no condensing
Storage temperature	Min: -20°C ; -4°F
	Max: 60°C ; 140°F
Storage humidity	20% - 90% RH, no condensing
Included Accessories	1 x 3-pin Euroblock connector, 3 x antennas, 1 x PSU 12V/3A
Optional Accessories	VEO-SWC45TH, VEO-SWC45TU
Dimensions (WxHxD)	222 x 42 x 120 mm / 8.74 x 1.65 x 4.72 in.
	222 x 155 x 120 mm / 8.74 x 6.1 x 4.72 in. (including antenna)
Shipping Dimensions (WxHxD)	345 x 75 x 205 mm / 13.58 x 2.95 x 8.07 in.
Weight	0.930 Kg / 2.05 lb
Shipping Weight	1.5 Kg / 3.31 lb
Chassis Material	Metal
Finished Colour	Black

11.1.2 VEO-SWC45TH

VEO-SWC45TH (optional accessory)

Video Performances

Video Output Connectors	HDMI® Type A Male, 1.4, 10.2Gbps
Video Input Resolutions	720p/60Hz,1080p up to 60Hz, 2K up to 60Hz, 4K UHD up to 30Hz
Video Output Resolutions	720p/60Hz,1080p up to 60Hz, 2K up to 60Hz, 4K UHD up to 30Hz, Latency: 1080p/60Hz: 80-120ms, 4K/30Hz: 130-170ms
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0
Colour Depth	8-bit (4K 60Hz 4:4:4)
Colour Space	RGB, YCbCr, YUV
HDCP	1.4
Wireless Conferencing	Yes (Video Playback Frame Rate: 20-60fps)
Other Features	USB HID

Audio Performances

Audio Formats	PCM
Sample Rate	44.1KHz, 48KHz
Bit Depth	Up to 24-bit
Frequency Response	20Hz-20KHz (±3dB)

Device Control

Control Connectors	1 x USB Type A
Control Protocols	USB 2.0
Status Indicators	Input LED Multicolour

Network

Network Connectors	WIFI IEEE 802.11 a/g/n/ac/ax (Antennas MIMO 2x2, MIMO 1x1)
Network Requirements	Compatible with 2.4 Ghz and 5GHz frequency bands, Security: AES, WPA PSK, WPA2 PSK, HTTPS
Average Streaming Bitrate	Up to 1200Mbps
Transmission Distance	Wireless Typical Coverage: 35m without obstacle (environment dependant)

Electrical

Power Supply	USB power 5V
DC Mains Connector	USB Type A
Power Consumption	2.5W

Physical

Operating Temperature	Min: -20°C ; -4°F
	Max: 60°C ; 140°F
Operating Humidity	20% - 90% RH, no condensing
Dimensions (WxHxD)	221.2 x 15 x 65 mm / 8.71 x 0.59 x 2.56 in
Weight	0.095 Kg / 0.209 lb
Shipping Dimensions (WxHxD)	230 x 30 x 95 mm / 9.06 x 1.18 x 3.74 in.
Shipping Weight	0.14 Kg / 0.309 lb
Chassis Material	Metal
Finished Colour	Black

11.1.3 VEO-SWC45TU

VEO-SWC45TU (optional accessory)

Video Performances	
Video Output Connectors	USB Type C Male, DP 1.2, 1.62Gbps, 2.7Gbps ,5.4Gbps
Video Input Resolutions	720p/60Hz,1080p up to 60Hz, 2K up to 60Hz, 4K UHD up to 30Hz
Video Output Resolutions	720p/60Hz,1080p up to 60Hz, 2K up to 60Hz, 4K UHD up to 30Hz, Latency: 1080p/60Hz: 80-120ms, 4K/30Hz: 130-170ms
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0
Colour Depth	8-bit (4K 60Hz 4:4:4)
Colour Space	RGB, YCbCr, YUV
HDCP	1.4
Wireless Conferencing	Yes (Video Playback Frame Rate: 20-60fps)
Other Features	USB HID

Audio Performances	
Audio Formats	PCM
Sample Rate	44.1KHz, 48KHz
Bit Depth	Up to 24-bit
Frequency Response	20Hz-20KHz (±3dB)

Device Control	
Control Connectors	1 x USB Type C
Control Protocols	USB 2.0
Status Indicators	Input LED Multicolour

Network	
Network Connectors	WIFI IEEE 802.11 a/g/n/ac/ax (Antennas MIMO 2x2, MIMO 1x1)
Network Requirements	Compatible with 2.4 Ghz and 5GHz frequency bands, Security: AES, WPA PSK, WPA2 PSK, HTTPS
Average Streaming Bitrate	Up to 1200Mbps
Transmission Distance	Wireless Typical Coverage: 35m without obstacle (environment dependant)

Electrical	
Power Supply	USB power 5V
DC Mains Connector	USB Type C
Power Consumption	3 W

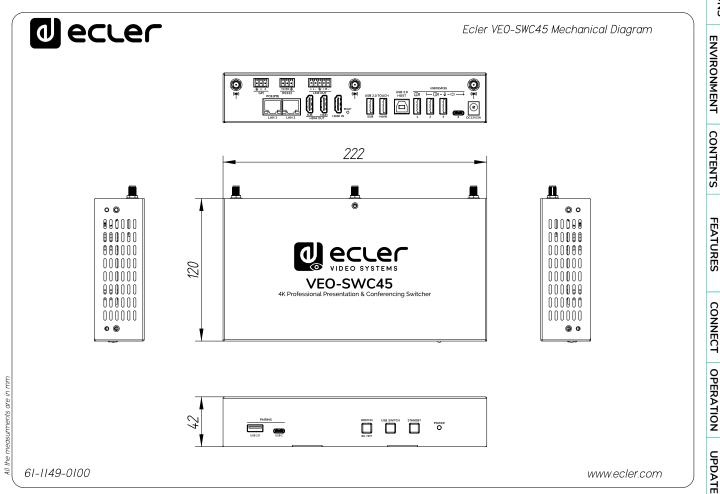| Physical	
Operating Temperature	Min: -20°C ; -4°F
	Max: 60°C ; 140°F
Operating Humidity	20% - 90% RH, no condensing
Dimensions (WxHxD)	176.3 x 15 x 65 mm / 6.94 x 0.59 x 2.56 in.
Weight	0.095 Kg / 0.209 lb
Shipping Dimensions (WxHxD)	230 x 30 x 95 mm / 9.06 x 1.18 x 3.74 in
Shipping Weight	0.14 Kg / 0.309 lb
Chassis Material	Metal
Finished Colour	Black

11.2 Mechanical Diagram

11.2.1 VEO-SWC45

All the measurements are in mm.

Ecler VEO-SWC45 Mechanical Diagram

VEO-SWC45
4K Professional Presentation & Conferencing Switcher

222

120

42

61-1149-0100

www.ecler.com

HW
Web GUI
PRECAUTIONS | WebGUI Setting Managem. & Config.
WARRANTY & ENVIRONMENT | Network Settings
PACKAGE CONTENTS | Display & Audio
DESCRIPTION & FEATURES | Moderator Control
INSTALL & CONNECT | Transmitters Manager
START-UP & OPERATION | System Settings
FIRMWARE UPDATE | Security Settings
TRANSMITTERS FUNCTIONS | Firmware Upgrade
PANEL & WIRELESS | Other Settings
TROUBLESHOOTING | UCC Device Manager
TECHNICAL DATA | About Device
User Interface

11.2.2 VEO-SWC45TH

All the measurements are in mm.

Ecler VEO-SWC45TH Mechanical Diagram

221,2

64,4

65

All the measurments are in mm

6I-II50-OI00

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HW

Web GUI

PRECAUTIONS

WebGUI Setting Managem. & Config.

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11.2.3 VEO-SWC45TU

All the measurements are in mm.

Ecler VEO-SWC45TU Mechanical Diagram

176,3

64,4

65

All the measurments are in mm

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For technical queries contact your supplier, distributor or complete the contact form on our website, in Support / Technical requests.

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