Hybrid Conference System with BYOM

eShare W90

User Manual

AV Access

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FCC Warnings

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
When using the product, maintain a distance of 20cm from the body to ensure compliance with RF exposure requirements.

Introduction

Overview

The eShare W90 is a high-performance BYOD presentation switcher with wireless presentation and conference capability. It equips two built-in Wi-Fi modules and offers multiple access approaches, including Airplay Mirroring, Miracast, Dongle and physical USB-C and HDMI ports, with which you can project the screen contents of your computers (Mac/Windows) or mobile devices (iPhone/iPad/ Android phone) to up to two displays.

Multiple features like automatic switching of input signal and multiview layouts, CEC, wireless conference, Guide Screen, and OSD are also included. It is a collaboration terminal that perfect for conferencing system.

Features

- Provides one USB-C and one HDMI inputs, as well as two HDMI outputs.
- In addition to video input, the USB-C input also supports PD charging up to 65W, 1000BaseT Ethernet connection and USB 3.0.
- Supports multiview if only one HDMI output port is connected to an HDMI display.
- Built-in Wi-Fi modules for wireless connectivity with devices over Airplay Mirroring, Miracast, Dongle and Google Cast[1].
- Supports wireless conference (connecting between the host PC and USB conference peripherals wirelessly via a Dongle).
- Supports input resolutions up to 4K@30Hz 4:4:4.
- Supports output resolutions up to 4K@60Hz 4:4:4 (4K@30Hz 4:4:4 for HDMI OUT 2).
- Fast seamless switching.
- Independent analog audio output.

- Built-in USB 3.0 switcher allows for USB switching among three USB hosts.
- Two Ethernet ports for networking flexibility and security.
- Detailed and friendly OSD information.
- Offers friendly Web UI for easy configuration.

Note: Google Cast[1] feature will be available in further firmware version soon.

Package Contents

Before you start the installation of the product, please check the package contents:

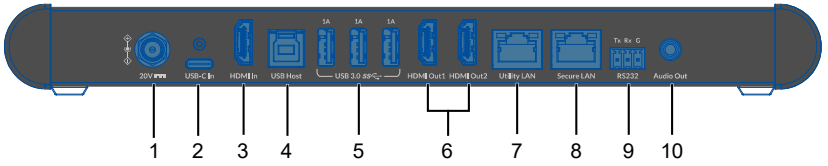
- eShare W90 x 1
- DC 20V 6A Power Adapter x 1
- 3.5mm 3-Pin Phoenix Male Connector x 1
- HDMI Cable (1.5m) x 1
- USB Type-C Cable (2m) x 1
- USB 3.0 Type-A to Type-B Cable (1.8m) x 1
- Mounting Brackets x 2 (with 4 x Screws)
- User Manual x 1

Panel

Front Panel

#	Name	Description
1	Reset	Reset button for the following two functions: • When the device is powered on, short press the button, the device's OSD information appears on the display screen for 10 seconds. • When the device is powered on, press and hold the button for at least 5 seconds, the device reboots and restores to its factory defaults.
2	Status	Working status LED indicator. • **Blinking quickly**: The device is booting. / The device is being upgraded. • **Lighting constantly**: The device has started. / The device is working properly. • **Blinking slowly**: The device is in standby state. • **Off**: The device is powered off.
3	Pairing	USB-C port. Connect to the dongle for pairing or upgrading the dongle.
4		Kensington security slot.

Rear Panel



#	Name	Description
1	20V	Connect to the DC 20V 6A power adapter provided.
2	USB-C In	USB 3.0 type-C port that supports USB-C video input, PD charging (up to 65W), 1000BASE-T Ethernet connection and USB 3.0. Connect to a USB-C source.
3	HDMI IN	Connect to an HDMI source.
4	USB Host	USB 3.0 type-B port. Connect to a USB host device.

#	Name	Description
5	USB 3.0	3 x USB 3.0 type-A ports for the following two functions: (1) Connect to USB peripheral devices (e.g. keyboard, mouse, touch screen, camera, speakerphone, etc.) for USB expansion. **Note:** • Keyboard and mouse are not available for signal return to Dongle wirelessly. • Each 1A port can output DC 5V 1A power to the USB peripheral. (2) Connect to a USB flash drive for firmware upgrade. For more information, refer to the Firmware Upgrade section.
6	HDMI Out 1-2	Connect to HDMI displays.
7	Utility LAN	2 x RJ-45 ports. Connect to network devices for LAN control, network access and Airplay Mirroring signal input. Tip: For more information about the usage of two Ethernet ports, refer to the Network Mode Configuration section.
8	Secure LAN	
9	RS232	3-Pin 3.5mm phoenix connector for the following two functions: • Connect to a peripheral (e.g. a projector) to control the peripheral (in com mode). • Connect to a controller (e.g. a computer) to control this device (in api mode). Default setting: com mode. For more information about the working mode configuration of the RS232 port, refer to the API document of the device.
10	Audio Out	Connect to an audio receiver for unbalanced analog audio output. **Note**: This port always outputs the same audio as the HDMI OUT 1&2.

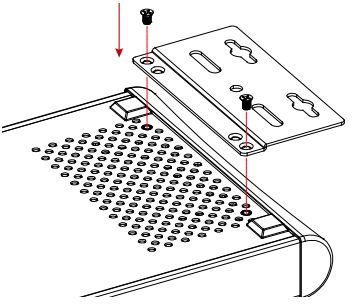
Installation and Application

Installation

Note: Before installation, make sure the device is disconnected from the power source.

Steps to install the device on a suitable location:

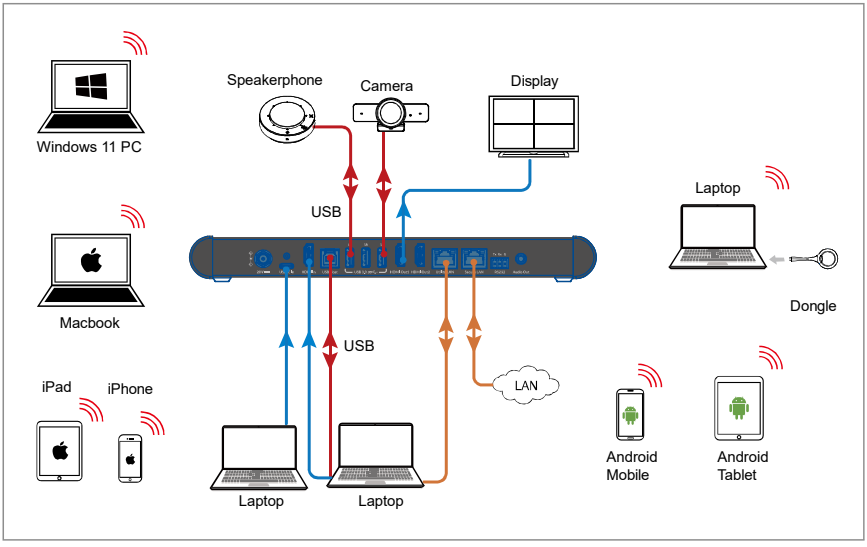
1. Attach the mounting brackets to the bottom panels of both sides using the screws (two on each side) provided in the package.



2. Install the brackets onto the position as desired using the screws (not included).

Application

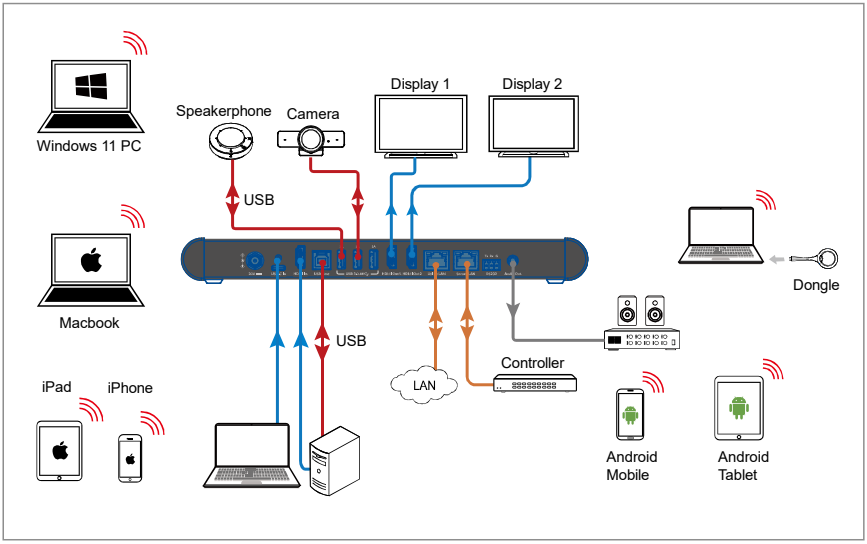
Scenario 1



Features:

- Plug a dongle into the laptop after the dongle is paired with the device successfully, the laptop can connect to the device wirelessly via the dongle as well as access the camera and speakerphone at the device.
- User can wirelessly project the screen content of the laptop and mobile devices to the device over Airplay and Miracast.
- If only one HDMI output is connected to an HDMI display device, Multiview function will be activated.

Scenario 2



- Plug a dongle into a laptop after the dongle is paired with the device successfully, the laptop can connect to the device wirelessly via the dongle and access the camera and speakerphone at the device.
- User can wirelessly project the screen content of the laptop and mobile devices to the device over Airplay and Miracast.

Key Functions

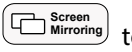
Screen Mirroring

If you're working on a PC and want its apps and content to be shown on another screen, you may want to consider mirroring your PC's screen to that screen.

With screen mirroring support, the device allows you to share your mobile devices' content wirelessly on any HDMI displays over Airplay Mirroring, Miracast and/or Dongle. In this manual, mobile devices available for screen mirroring are referred to as "screen mirroring source", such as Apple devices (iPhone/iPad/Mac), Android phones, Windows PCs, Dongle, etc.

Screen Mirroring over Airplay (for Apple Devices)

a. Connect your iPhone/iPad/Mac to the device's Wi-Fi.
   - ⇨ **Wi-Fi SSID**: as same as the device name and can be obtained from OSD at the upper right of the display screen. By default, it is set as **eShare W90**.
   - ⇨ **Password**: can be set through Web UI and can be obtained from OSD at the upper right corner of the display screen. By default, it is set as **12345678**.

b. Open Control Center on your Apple device, tap 

to select appropriate mirroring device (the device name can be obtained from the upper right corner of the display screen) from the pop-up menu.

c. To disconnect Apple device from the device: click **Stop Mirroring**, the display stops displaying your device's screen.

Screen Mirroring over Miracast (for Android Phones & Windows PCs)

For Android smartphone (take Samsung Galaxy series for example):

1. Enable the Wi-Fi or WLAN feature of your smartphone.
2. On your phone, swipe down from the top and tap 

or 

to select appropriate mirroring device (the device name can be obtained from the upper right corner of the display screen) from the pop-up CONNECT menu.
3. To disconnect the smartphone from the device: click “DISCONNECT” on your smartphone’s screen.

Note:

- The icon, instruction and entrance of the Miracast function may vary on different Android phones, please refer to your phone’s manual to get accurate instruction.
- If you fail to use Miracast function, please disable your phone’s Wi-Fi and enable it later, or restart the mobile if necessary.

For Windows PC (Window 10 or higher):

1. Enable the WLAN feature of your PC.
2. On your PC, press the combination keys “  + K” to select appropriate mirroring device (the device name can be obtained from the upper right corner of the display screen) from the pop-up menu.
3. To disconnect PC from the device: click **Disconnect**, the display stops displaying PC’s screen.

Important:

- The icon and interface of the Miracast function may vary on different computers.
- Some Windows 10/11 computers may fail to perform screen mirroring

with Miracast due to compatibility issues.

Tip: Both the Airplay mirroring and Miracast support access code. If you see the PIN entry window appears on your devices, input the access code that can be obtained through OSD (see OSD section for more information).

Screen Mirroring over Dongle

Users are able to share laptop's content on a display wirelessly using the eShare D30 Dongle, no additional installation of application is required.

Note:

(1) eShare D30 Dongle is sold separately.

(2) Before you plug eShare D30 Dongle into your laptop, ensure your laptop's USB-C port supports video output.

Steps to share laptop's screen on the display using eShare D30 Dongle:

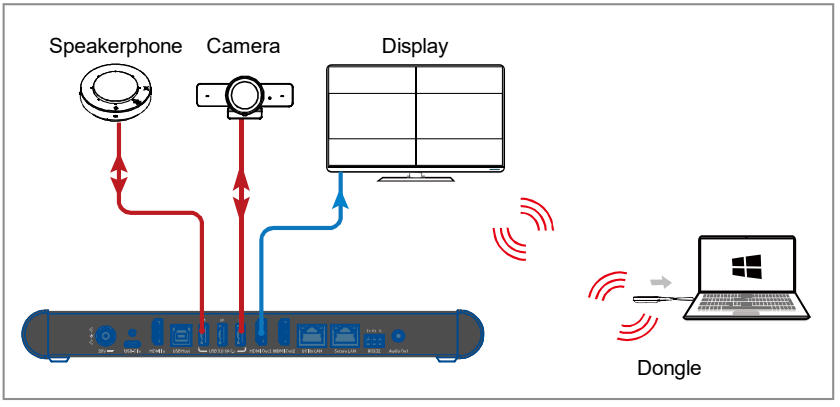
1. Pair the Dongle with the device.
   Connect the Dongle to the Pairing port on the device's front panel. Once pairing between Dongle and the device is completed, "Pairing successful" appears on the display screen.
2. Connect the Dongle to a laptop.
   After it is connected to the device's Wi-Fi successfully, the Dongle LED turns from blinking to lighting constantly.
3. Now press the Dongle's projecting button, you can project your laptop's screen on the display immediately.

Wireless Conference

Wireless Conference function enables a laptop to access the USB conference peripherals (such as a USB camera, a USB speakerphone, etc.) attached to the switcher wirelessly through a Dongle.

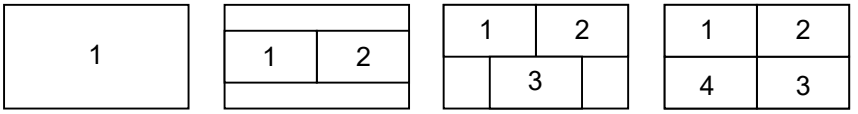
Here is how to use this feature:

1. Connect USB conference peripherals to the USB-A ports of the switcher.
2. Pair between the switcher and the Dongle.
   Connect the Dongle to the switcher's PAIRING port to pair two devices.
   Once pairing is complete, remove the Dongle from the switcher.
3. Plug the Dongle into the laptop.
   Connect the Dongle to the laptop's USB-C port. The Dongle will be ready to transmit and receive signals in a few seconds.
   Note: Please make sure the USB-C port of the laptop supports audio and video output.
4. Press the Wireless Conference button on the Dongle to connect between the laptop and the USB devices wirelessly.



Multiview

When only one HDMI output port (either HDMI OUT1 or HDMI OUT2) is attached to an HDMI display, the switcher supports Multiview, that is, allows up to four video sources to be displayed on a single screen.



If four video sources are being played on one display screen of HDMI OUT1/HDMI OUT2, connect an additional video source to the device, this latest input source will replace the source that presents longest on the screen.

Note: By default, Multiview function is enabled, and can be disabled through web UI (go to Web UI > Video Settings > Video Switching section) and API commands. For more information about the API commands, see the separate API documentation.

Automatic Switching

The device supports automatic signal switching function, allowing you to output desired sources with ease. This function follows Last-In-First-Out rule:

1. When only one video source is connected to the device, HDMI OUT 1 and/or HDMI OUT 2 automatically output this video source to the display screens.
2. When a video source is to be input in the case that four video sources are being played in Multiview mode on one display screen, this latest input source will replace the source that presents the longest on the screen. For more information, see the switching mechanism in Multiview section.
3. When no active video source is being input to the device, the output display shows the Guide Screen image finally.

Display of HDMI OUT1 and HDMI OUT2 Outputs

When both HDMI OUT1 and HDMI OUT2 are connected to two display screens respectively, Multiview function is disabled and the two HDMI outputs function as follows:

(1) Each of the HDMI outputs display in single view on its corresponding display screen.

(2) If the device detects no active video source input, both HDMI outputs display Guide Screen.

(3) If the device detects only one active video source input, both HDMI outputs display this video source.

(4) If the device detects the quantity of the video source input increases from one to two, the later input source is assigned to HDMI OUT2, and the earlier one is still at HDMI OUT1.

(5) If the device detects an additional video source is to be input in the case that two input video sources have existed, then the latest input source replaces the source that presents longer and outputs to the corresponding HDMI OUT port.

Network Mode Configuration

The device equips two Ethernet ports for networking flexibility and security, which support the following two network modes:

(1) Transparent Mode (Default Setting)

In this mode, two Ethernet ports are interconnected with each other, and each one can be used for device control by connecting to the LAN where the controller resides, for BYOD communication, and for the attached device (e.g. room PC) to access network.

(2) Isolated Mode

When the configuration item “Secure Ethernet Mode” on web UI is set to Enable, Isolated mode is activated. For more information about enabling “Secure Ethernet Mode”, refer to Wired Network section.

In Isolated mode, the SECURE LAN port is used for controlling the device; the UTILITY LAN port is for BYOD communication and for the attached device to access network.

Guide Screen

The device outputs Guide Screen image when no active video source is detected. The Guide Screen can be personalized to convey customized connection instructions through the device’s Web UI page.

Figure 1- Guide Screen Image

The Guide Screen image appears automatically on the display screen in a period of time after all video sources are removed from the device.

Note:

- This Guide Screen image can be changed though Web UI, for more information, refer to System Settings section.

- By default, if the device has been output Guide Screen image for 60 seconds, a 60-second countdown appears on the Guide Screen. When the countdown is over, the connected display will enter standby mode if it is CEC-capable.

OSD

The device supports OSD (on screen display) to convey device basic information, including video source's information, Access code, device name and IP address, etc. Here are two different OSD examples in different scenarios.

Example 1: Displays in single view

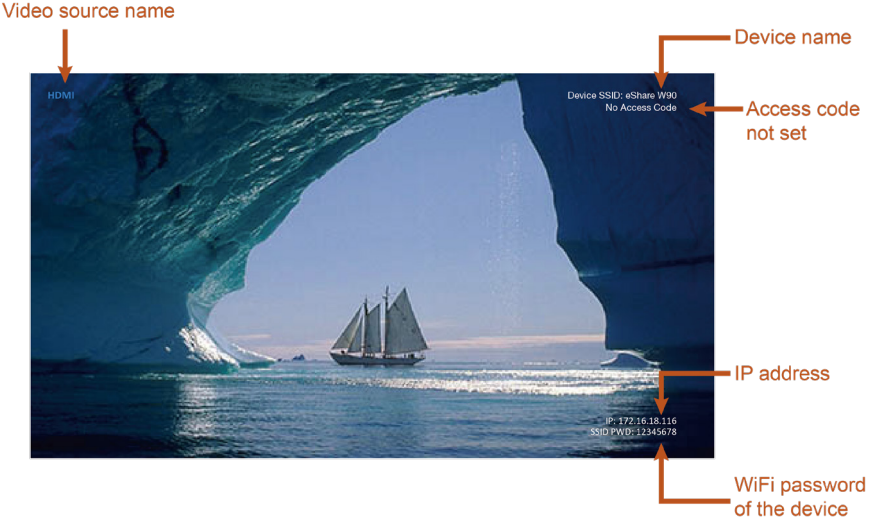


Figure 2 – OSD Example 1

Example 2: Displays in dual view

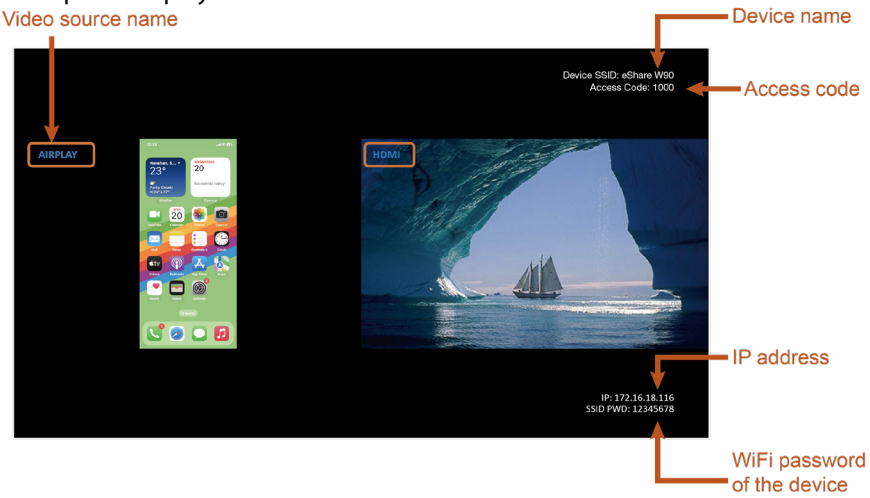


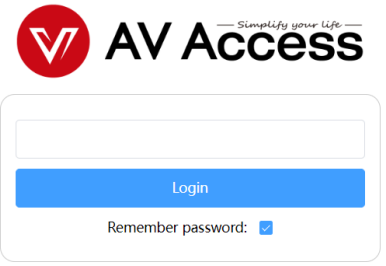
Figure 3 -- OSD Example 2

Web UI

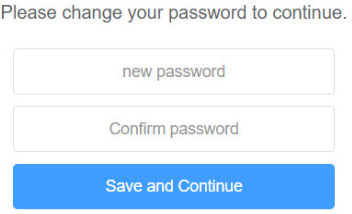
The Web UI designed for this device allows for basic controls and advanced settings. It can be accessed through a modern browser, e.g. Chrome, Safari, Firefox, IE10+, etc.

To get access the Web UI:

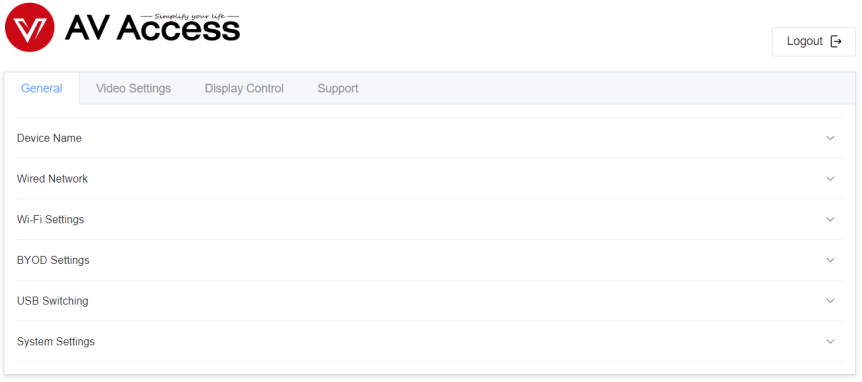
1. Connect the LAN port of the device to a local area network. Ensure there's a DHCP server in the network so that the device can obtain a valid IP address.
2. Connect a PC to the same network as the device.
3. Input the device's IP address in the browser and press Enter, the following window pops up. (See OSD section to easily view the IP address.)



4. Input the password (default password: **admin**) and click **Login**.
5. Set up a new login password in the following dialog box and click **Save and Continue** to enter the main page. The password shall be alphanumeric only with 4 to 16 characters in length.



The main page is split into the following submenus:

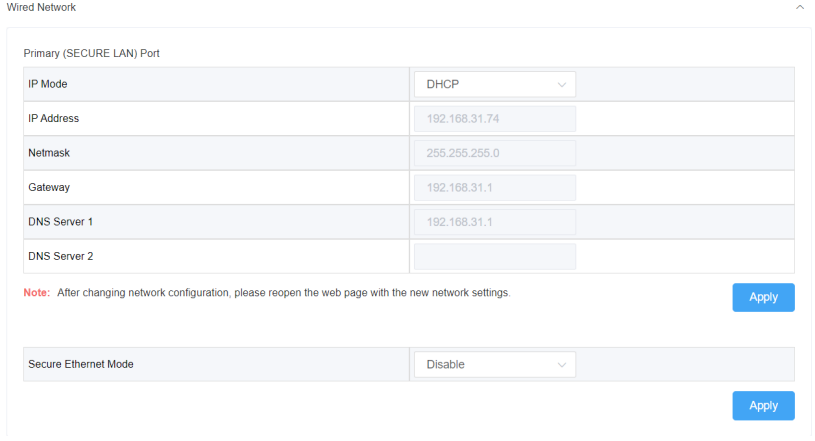


General

Device Name

Name	Description
Device Name	Define the device name to an easy-to-remember one. **Note:** • The device name must be 1~20 characters in length, including letters, numbers, "_" or "-". • The device name is also used as the identifier for BYOD screen casting methods, including Airplay, Miracast and Dongle, and its uniqueness must be guaranteed. When multiple devices are deployed in the environment, make sure that all devices' names are different. Default setting: **eShare W90**
Apply	Click to perform current settings.

Wired Network



This section is for network settings of the device's Ethernet ports.

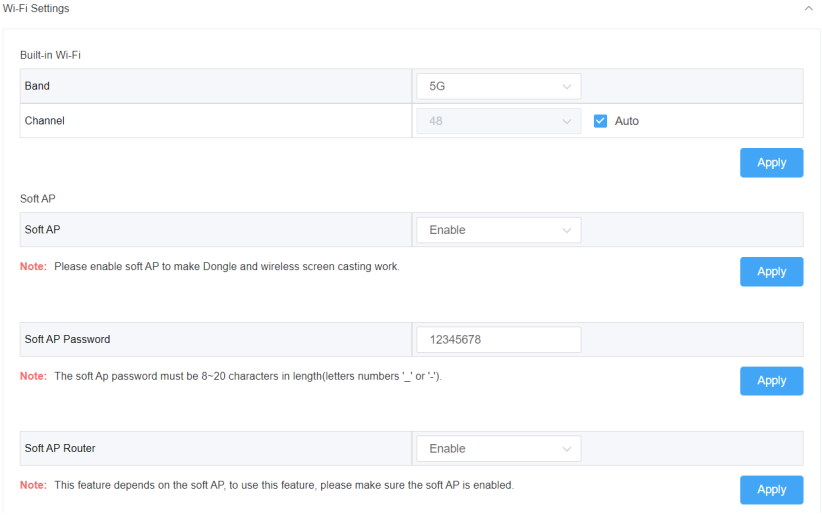
For Primary (SECURE LAN) port:

Name	Description
IP Mode	Select IP addressing mode between DHCP and Static. Default setting: **DHCP**
IP Address	Set IP address manually for the device when Static mode is selected.
Netmask	Set subnet mask manually for the device when Static mode is selected.
Gateway	Set gateway address manually for the device to communicates with another network when Static mode is selected.
DNS Server 1	Set DNS server manually for the device to ensure normal network communication.
DNS Server 2	
Apply	Click to save and perform current settings. Note: After the IP settings are changed, please refresh the Web UI page to log back in.

For Secure Ethernet Mode:

Name	Description
Secure Ethernet Mode	To enable or disable the Secure Ethernet Mode. • **Enable**: Select to activate Isolated mode. In Isolated mode, the SECURE LAN port is used to control this device, the UTILITY LAN port is used for BYOD communication and network access. • **Disable**: Select to activate Transparent mode. In Transparent mode, two Ethernet ports are interconnected with each other. Default setting: **Disable** **Note:** For more information about the two network modes above, refer to Network Mode Configuration section.

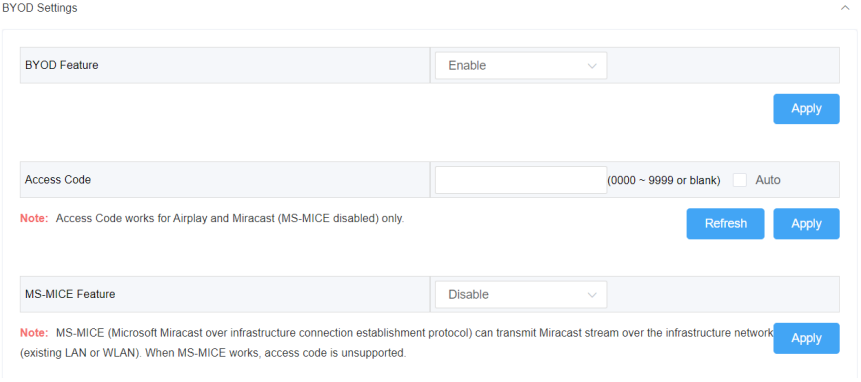
Wi-Fi Settings



Name	Description
Band	• **5G**: Configure the device's frequency band as 5GHz. • **2.4G**: Configure the device's frequency band as 2.4GHz. Default setting: **5G** **Tip:** If your wireless devices don't support 5GHz Wi-Fi, configures the frequency band of this device as 2.4G before connecting them to this device via Miracast.
Channel	Configure the device's wireless channel. Default setting: **Auto** Auto means the device selects a wireless channel automatically for itself.
Soft AP	Click to enable/disable the device's soft AP function. Default setting: **Enable** Note: Ensure that the soft AP function is enabled before using Dongle and wireless screen casting features.
Soft AP Password	Configure the soft AP password. Default setting: **12345678**
Soft AP Router	• **Enable**: Enable the device's soft AP router function so that wireless devices connected to soft AP are able to access the internet (verify the Ethernet port of the device is connected to the internet).

Name	Description
	Note: When the device's IP mode is set as Static, you must configure the Ethernet port's gateway and DNS correctly so that soft AP router runs properly. • **Disable**: Disable the device's soft AP function to prevent wireless devices connected to soft AP from accessing the internet. Default setting: **Enable** Note: Ensure that the soft AP function is enabled before using Soft AP Router feature.
Apply	Click to perform current settings.

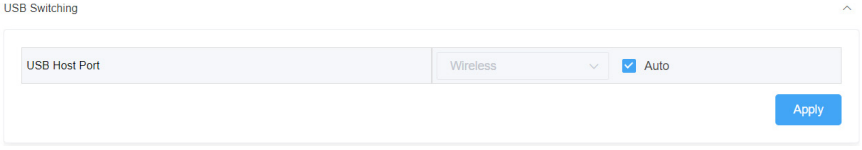
BYOD Settings



Name	Description
BYOD Feature	Select to enable/disable the device's BYOD feature. Default setting: **Enable** Note: This feature is available for Airplay and Miracast only.
Access Code	Enter a four-digit access code ranges from 0000~9999 to help prevent users from accidentally connecting to an unintended device and protect from an unauthorized access. • When an access code is set, it will appear on the upper right corner of the attached display. • If you don't want to set access code, you can leave it blank here. Default setting: Null

Name	Description
	Note: Access Code works for Airplay and Miracast (MS-MICE disabled) only.
MS-MICE Feature	Select to enable/disable the device's MS-MICE Feature. MS-MICE refers to the *Miracast over Infrastructure Connection Establishment protocol*, which is developed by Microsoft and perceived as the upgraded version of Miracast, can transmit Miracast stream over the infrastructure network (existing LAN or WLAN). • **Enable**: Windows will only select infrastructure network when connection between Miracast source and Miracast receiver is through Ethernet or a secure Wi-Fi network; if not, Windows will retrieve to use Miracast P2P instead of MS-MICE. • **Disable**: Windows selects Miracast to wirelessly send screencasts based on the Wi-Fi peer-to-peer (P2P) connection. Default setting: **Disable** **Note:** When MS-MICE is working, Access Code is not available.
Apply	Click to perform current settings.

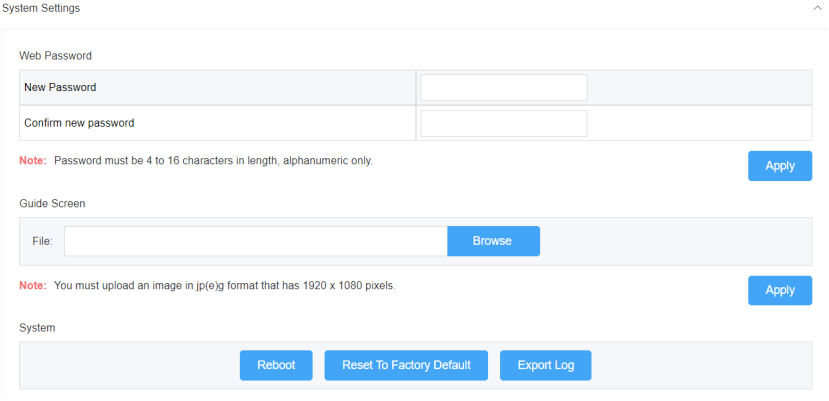
USB Switching



Name	Description
USB Host Port	Click to select the USB host port of the built-in USB 3.0 switcher: • **USB-C**: Select USB-C IN as the USB host. • **USB Host**: Select USB HOST as the USB host. • **Wireless**: Select Dongle as the USB host. • **Auto**: Select among USB host ports above as the USB host automatically. In this mode, the latest connected USB channel (USB-C / USB HOST / Dongle) will be selected as the USB host automatically. Default setting: **Auto**

Name	Description
Apply	Click to perform current settings.

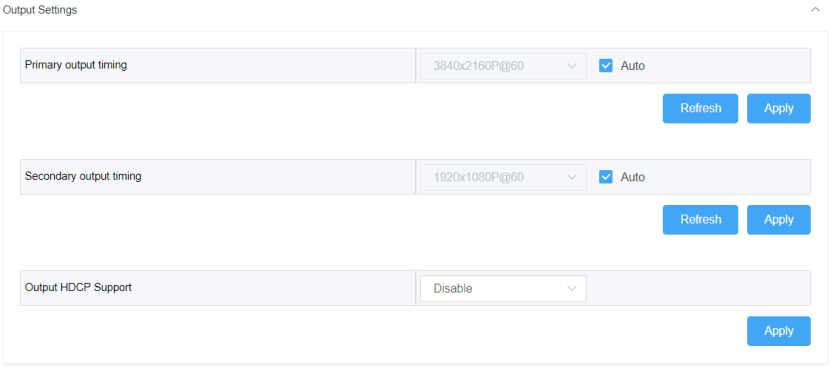
System Settings



Name	Description
Web Password	• **New Password/Confirm new Password**: Set a new password to log on to the device's web UI page. • **Apply**: Click to apply settings. **Note:** The new password must be 4 to 16 characters in length, alphanumeric only.
Guide Screen	• **Browse**: Click to browse for the new Guide Screen image. • **Apply**: Click to upload the selected image to the device. **Note:** Image in jp(e)g format with 1920x1080 pixels is recommended.
System	• **Reboot**: Click to reboot the device. • **Reset to Factory Default**: Click to restore the device to factory defaults. You can also perform this task by pressing and holding the Reset button on front panel for five seconds. • **Export Log**: Click to export system log.

Video Settings

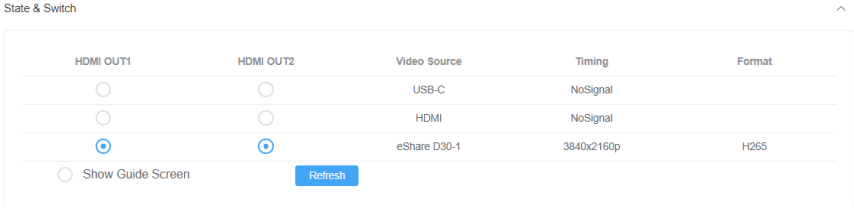
Output Settings



Name	Description
Primary output timing	Set the output timing for the video at HDMI OUT 1. Two operation methods are offered in the following: • **Auto**: Select to output the optimal resolution of the attached display based on the display's EDID. For example, if the recommended resolution for the display is 4K@60Hz, the device will output 4K@60Hz video. • **Resolution range list**: select a desired output resolution from the dropdown menu to output this fixed resolution. Maximum supported output resolution is 4K@60Hz. Default setting: **Auto** Note: The maximum output timing of HDMI OUT 1 is 3840x2160P@60.
Secondary output timing	Set the output timing for the video at HDMI OUT 2. Two operation methods are offered in the following: • **Auto**: Select to output the optimal resolution of the attached display based on the display's EDID. For example, if the recommended resolution for the display is 4K@30Hz, the device will output 4K@30Hz video. • **Resolution range list**: select a desired output resolution from the dropdown menu to output this

Name	Description
	fixed resolution. Maximum supported output resolution is 4K@30Hz. Default setting: **Auto** Note: The maximum output timing of HDMI OUT 2 is 3840x2160P@30.
Output HDCP Support	Select to enable or disable HDCP support of the output port. Two options are offered in the following: • **Enable:** To enable HDCP support of the output port. In this case, the HDCP setting of the output port will follow that of the connected display. This option is applicable to HDCP-enabled displays. • **Disable:** To disable HDCP support of the output port. Default setting: **Enable**

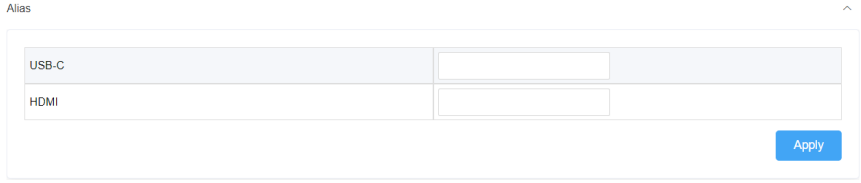
State & Switch



This section is used for switching among multiple input sources and displaying the sources' statuses, including video source names, input resolutions and format.

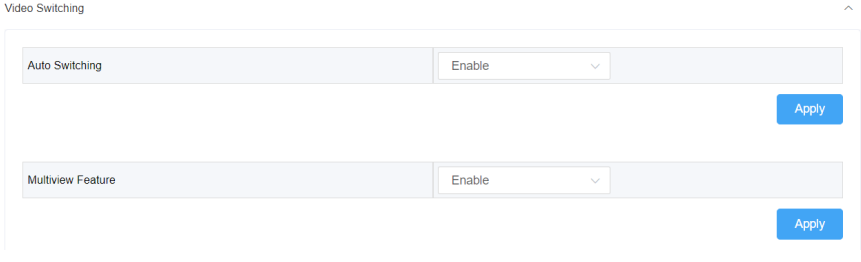
Name	Description
HDMI OUT1 &HDMI OUT2	Click the button to select (button turns from white to blue) or deselect (button turns from blue to white) the specified video source for the HDMI outputs.
Show Guide Screen	Click the button to output the Guide Screen (button turns from white to blue).
Refresh	Click to refresh the current state information.

Alias



Name	Description
Alias	Enter a new alias name to change the video source name to a new one. **Note:** The alias name must be within the length of 1~20 characters, including alphanumeric characters, underscores "_" and hyphens "-", but shall not start with "-" or be pure numbers. If you don't want to change the name, leave it blank here.
Apply	Click to perform the current settings.

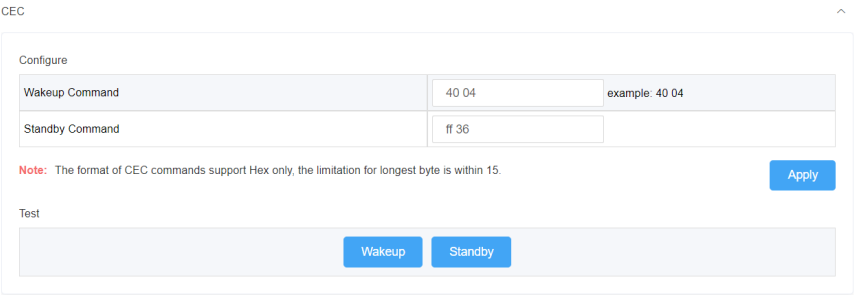
Video Switching



Name	Description
Auto Switching	• **Enable**: Enable the Auto Switching function. • **Disable**: Disable the Auto Switching function. Default setting: **Enable** **Note:** For more information about Auto Switching function, please refer to Automatic Switching function.
Multiview Feature	• **Enable**: Enable the Multiview Feature. • **Disable**: Disable the Multiview Feature. Default setting: **Enable**

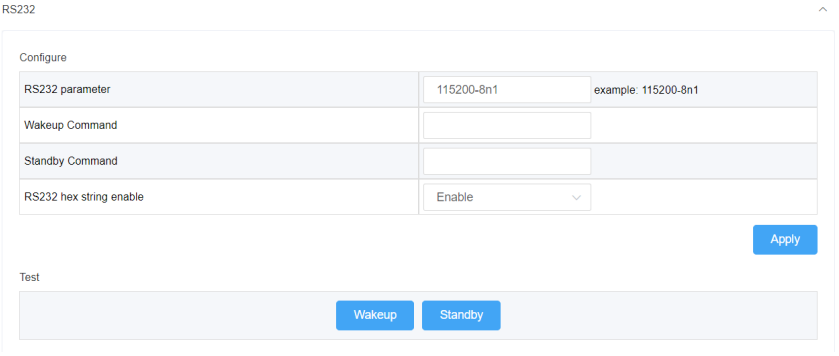
Display Control

CEC



Name	Description
Wakeup Command	Enter the CEC wakeup command of the controlled display device in hex format. For more information about the command, see the user guide of your display device. Default setting: **40 04**
Standby Command	Enter the CEC standby command of the controlled display device in hex format. For more information about the command, see the user guide of your display device. Default setting: **ff 36**
Apply	Click to save and perform current settings.
Wakeup	Click to send the Wakeup command to wake the display up from standby mode (for testing).
Standby	Click to send the Standby command to make the display enter standby mode (for testing).

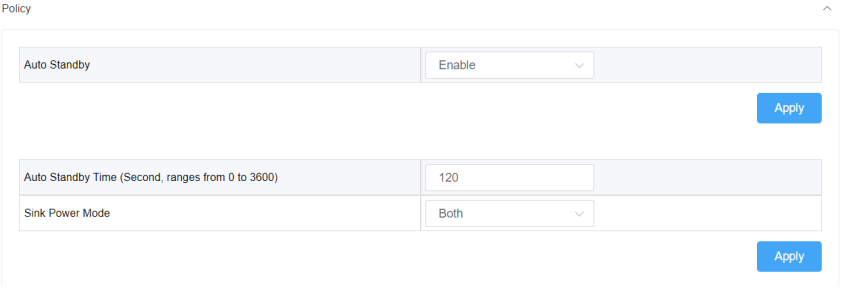
RS232



Name	Description
RS232 Parameter	Set the RS232 parameters for the controlled display. For more information about the parameters, see the user guide of your display device. **Parameter** / **Value** / **Abbreviation** Baud Rate / 115200bps / 115200 Data Bits / 8bits / 8 Parity / None / n Stop Bits / 1 / 1 Default setting: **115200-8n1**
Wakeup Command	Enter the RS232 wakeup command of the controlled display device. For more information about the command, see the user guide of your display device. If you want to disable this function, you can enter nothing here. By default, it's set as blank.
Standby Command	Enter the RS232 standby command of a controlled display device. For more information about the command, see the user guide of your display device. If you want to disable this function, you can enter nothing here. By default, it's set as blank.
RS232 hex string enable	• **Enable**: select to use the RS232 standby and wakeup commands in hex string form to control your display devices. If this item is enabled, make sure standby and wakeup commands are manually converted to their equivalent hex forms first and

Name	Description
	then input the **RS232 Standby Command** and **RS232 Wakeup Command**. For example, RS232 wake up command in hex form may be: *50 57 52 20 4F 4E 0D 0A* • **Disable**: select to directly send the original standby or wakeup commands to control the attached display device. Default setting: **Enable**
Apply	Click to perform current settings.
Wakeup	Click to send the Wakeup command defined in "Wakeup Command" field to wake the display up from standby mode.
Standby	Click to send the Standby command defined in "Standby Command" field to set the display to enter standby mode.

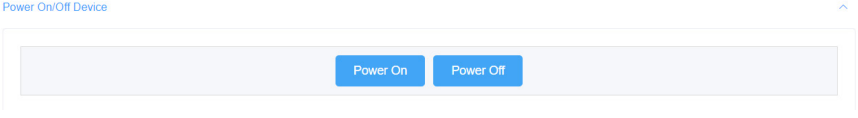
Policy



Name	Description
Auto Standby	• **Enable**: To enable auto standby function for the device. If enabled, when there's no valid signal input to the device during a specified period of time, the device will enter standby status automatically. • **Disable**: To disable auto standby function for the device. Default setting: **Enable**
Auto Standby Time (Second, ranges from 0 to 3600)	Set the standby timeout (inactivity period) after which the device will automatically enter the standby mode. • If the standby timeout doesn't exceed 60 seconds, a standby countdown of the device will appear on the

Name	Description
	display screen immediately once it outputs Guide Screen. • If the standby timeout is larger than 60 seconds, a 60-second standby countdown of the device will appear on the display screen when the standby timeout has only 60 seconds left. • If Auto Standby Time is set to 0, it means the device will enter standby mode immediately once it outputs Guide Screen. For example, an 80-second auto standby time means the device will enter standby mode after it has not detected valid signal input for 80 seconds, during which when the device has output Guide Screen for 20 seconds, a 60-second countdown appears on the display, as the countdown reaches zero, the device enters standby mode. Default setting: **120**
Sink Power Mode	• **Both**: Enable both CEC and RS232 modes to manage the sink power. • **CEC**: Enable CEC to manage the sink power. Default setting: **Both**
Apply	Click to save and perform current settings.

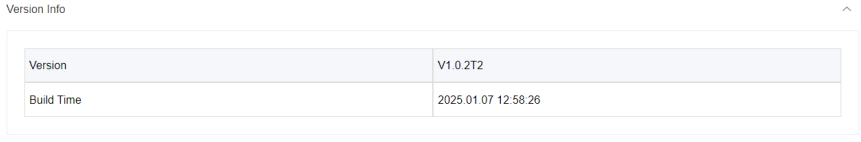
Power On/Off Device



Name	Description
Power On	Click to wake the device up from the standby mode.
Power Off	Click to set the device to standby mode.

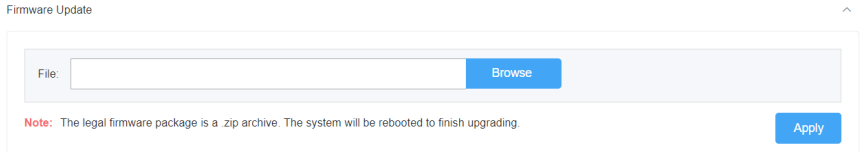
Support

Version Info



Name	Description
Version	Shows the device's firmware version.
Build Time	Shows the time and date when the device's firmware was built.

Firmware Update



Name	Description
Firmware Update	• **Browse:** Click to browse for the local upgrade file. • **Apply:** Click to upload the firmware file to the device and perform firmware upgrade.

Firmware Upgrade

The device supports firmware upgrade through either Web UI or USB-A ports on rear panel.

To upgrade firmware through Web UI, see Firmware Update section.

To upgrade firmware through USB-A port on rear panel, perform the following:

1. Name the upgrade file package “FSC640-update.zip”.
2. Create a new folder named “upgrade” under the root directory of a FAT32 or NTFS USB flash drive. Place the upgrade file in this folder.
3. Connect the USB flash drive to one of the device’s USB-A ports. It takes about 1 minute for the device to read the USB flash drive. If the device detects the upgrade file is a newer version, it will start upgrading. When the upgrade process is completed, the device reboots automatically.

Important:

- Do not cut off the power during the upgrade process.
- If the device detects the upgrade file is not a newer version, it will not start upgrading.

Specifications

Technical	
Input Video Port	1 x HDMI In; 1 x USB-C In; 2 x LAN, 10/100/1000Mbps Ethernet; 2 x Wi-Fi
Input Video Signal	• HDMI: HDMI 1.4, HDCP 1.4 • USB-C: DisplayPort 1.1, HDCP 1.4 • LAN/Wi-Fi: H.264
Input Resolutions	**HDMI/USB-C:** 640x480[8], 800x600[8], 1024x768[8], 1280x768[8], 1280x800[8], 1280x1024[8], 1360x768[8], 1366x768[8], 1440x900[8], 1400x1050[8], 1600x1200[8], 1680x1050[8], 1920x1200[8], 720x480[8] (480p), 720x576[6] (576p), 1280x720[5] (720p30), 1280x720[6] (720p50), 1280x720[8] (720p60), 1920x1080[2] (1080p24), 1920x1080[3] (1080p25), 1920x1080[5] (1080p30), 1920x1080[6] (1080p50), 1920x1080[8] (1080p60), 3840x2160[2](2160p24), 3840x2160[3](2160p25), 3840x2160[5](2160p30) **Miracast (Wi-Fi):** 640x480[8], 720x480[8] (480p), 720x576[6] (576p), 1280x720[2], 1280x720[3], 1280x720[5](720p30), 1280x720[6](720p50), 1280x720[8] (720p60), 1920x1080[2] (1080p24), 1920x1080[3] (1080p25), 1920x1080[5](1080p30), 1920x1080[6](1080p50), 1920x1080[8](1080p60) **Airplay Mirroring (LAN/Wi-Fi):** Up to 1920x1080[8](1080p60) **Google Cast* (LAN/Wi-Fi):** Up to 1920x1080[5](1080p30) **USB-C Dongle:** 1920x1080[8](1080p60), 3840x2160[5](2160p30) 1 = at 23.98Hz, 2 = at 24Hz, 3 = at 25Hz, 4 = at 29.97Hz, 5 = at 30Hz, 6 = at 50Hz, 7 = at 59.94Hz, 8 = 60Hz
Output Video Port	2 x HDMI
Output Video Signal	HDMI 2.0, HDCP 2.2
Output Resolutions	**HDMI OUT1:** 720x480[8] (480p60), 720x576[6] (576p60), 640x480[8], 800x600[8], 1024x768[8], 1280x720[6](720p50), 1280x720[8] (720p60), 1280x800[8], 1280x1024[8], 1366x768[8], 1440x900[8], 1600x1200[8], 1680x1050[8], 1920x1200[8], 1920x1080[2]

Technical	
	(1080p24), 1920x1080[3] (1080p25), 1920x1080[5] (1080p30), 1920x1080[6] (1080p50), 1920x1080[8] (1080p60), 3840x2160[3] (2160p25), 3840x2160[5] (2160p30), 3840x21606(2160p50), 3840x21608(2160p60) **HDMI OUT2:** 720x480[8] (480p60), 720x576[6] (576p60), 640x480[8], 800x600[8], 1024x768[8], 1280x720[6](720p50), 1280x720[8] (720p60), 1280x800[8], 1280x1024[8], 1366x768[8], 1440x900[8], 1600x1200[8], 1680x1050[8], 1920x1200[8], 1920x1080[2] (1080p24), 1920x1080[3] (1080p25), 1920x1080[5] (1080p30), 1920x1080[6] (1080p50), 1920x1080[8] (1080p60), 3840x2160[3](2160p25), 3840x2160[5] (2160p30) 1 = at 23.98 Hz, 2 = at 24 Hz, 3 = at 25 Hz, 4 = at 29.97 Hz, 5 = at 30 Hz, 6 = at 50 Hz, 7 = at 59.94 Hz, 8 = 60 Hz

***Note:** Google Cast feature will be available in further firmware version soon.

Audio	
Input Audio Port	1 x HDMI; 1 x USB-C; 2 x LAN; 2 x Wi-Fi
Input Audio Signal	RAW PCM 2.0, 16 bit, 32/44.1/48KHz sps
Output Audio Port	2 x HDMI; 1 x Analog Audio OUT
Output Audio Signal	RAW PCM 2.0, 16 bit, 48KHz sps

Wi-Fi	
Standard	IEEE 802.11 a/b/g/n/ac
Frequency	Dual bands, 2.4~2.4835GHz, 5.0~5.8GHz
Security	WEP, TKIP, AES, WPA, WPA2

Control	
Control Connector	2 x RJ45, 10/100/1000Mbps Ethernet
Control Method	LAN (Web UI); RS232

General	
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 90%, non-condensing
ESD Protection	Human-body Model: ±8kV (Air-gap discharge)/±4kV (Contact discharge)
Power Supply	20V 6A DC
Power Consumption	93W (Max)
Device Dimensions (W x H x D)	277.6mm x 29.1mm x 142mm / 10.93” x 1.15” x 5.59”
Product Weight	1.0kg/2.2lbs

Warranty

Products are backed by a limited 1-year parts and labor warranty. For the following cases AV Access shall charge for the service(s) claimed for the product if the product is still remediable and the warranty card becomes unenforceable or inapplicable.

1. The original serial number (specified by AV Access) labeled on the product has been removed, erased, replaced, defaced or is illegible.
2. The warranty has expired.
3. The defects are caused by the fact that the product is repaired, dismantled or altered by anyone that is not from an AV Access authorized service partner. The defects are caused by the fact that the product is used or handled improperly, roughly or not as instructed in the applicable User Guide.
4. The defects are caused by any force majeure including but not limited to accidents, fire, earthquake, lightning, tsunami and war.
5. The service, configuration and gifts promised by salesman only but not covered by normal contract.
6. AV Access preserves the right for interpretation of these cases above and to make changes to them at any time without notice.

Thank you for choosing products from AV Access.

If you have any question, please contact us via the following emails:
General Enquiry: info@avaccess.com
Customer/Technical Support: support@avaccess.com

有线无线混合会议演示系统

eShare W90

用户手册

视连捷
AV Access

目录

简介

概述

本产品是一款高性能、支持无线投屏和无线会议功能的 BYOD 演示切换器。除配置有线 USB-C 和 HDMI 视频输入端口以外，还内置了 Wi-Fi 模块，支持 Airplay、Miracast 和投屏器等无线接入方式，方便用户轻松将电脑(Mac/Windows 笔记本)或手机(iPhone/安卓)、iPad 等设备无线投屏至两个显示器。支持输入信号和多画面布局自动切换、CEC、向导屏幕和 OSD 显示等功能。本产品适用于会议室、工作组讨论等应用场景。

特性

- 提供一路 USB-C、一路 HDMI 输入和两路 HDMI 输出。
- USB-C 端口支持 USB-C 输入、高达 65W 的对外充电、千兆以太网连接和 USB 3.0 传输。
- 当仅连接一个显示器时支持多画面显示。
- 内置 Wi-Fi 模块，提供 Airplay、Miracast、投屏器和 Google Cast[1] 的无线接入方式。
- 支持无线会议 (通过连接投屏器实现 USB host 和 USB 会议外设之间的无线连接)。
- 支持高达 4K@30Hz 4:4:4 的输入分辨率。
- 支持高达 4K@60Hz 4:4:4 的输出分辨率 (HDMI OUT 2 支持 4K@30Hz 4:4:4)。
- 全屏模式和多画面模式均支持快速无缝切换。
- 独立模拟音频输出。
- 内置 USB 3.0 切换器提供三路 USB 3.0 Host 通道之间的切换。
- 两路以太网端口大大提高组网灵活性和安全性。
- 支持 OSD。
- 支持 Web UI (网页版用户界面)。

提示：Google Cast[1] 功能将在后续发布的版本中实现。

包装明细

在开始使用本产品前，请通过下列明细检查包装配件：

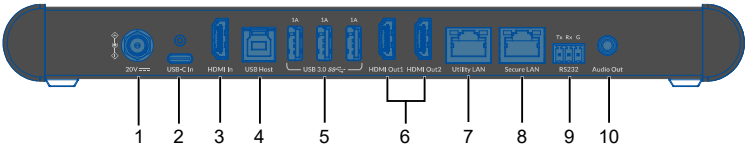
- eShare W90 x 1
- DC 20V 6A 电源适配器 x 1
- 3.5mm 3 针凤凰端子公座 x 1
- HDMI 线（1.5 米) x 1
- USB 3.0 Type-C 线（2 米) x 1
- USB 3.0 Type-A 转 Type-B 线（1.8 米) x 1
- 固定耳 x 2 (附 4 x 螺钉)
- 用户手册 x 1

面板

前面板

#	名称	描述
1	Reset	重置按键，支持两种用法： • 设备开机状态下，短按按钮，设备 OSD 信息将出现在 HDMI 显示器上并停留 10 秒。 • 设备开机状态下，长按按钮 5 秒以上再松开，设备将重启并恢复至出厂设置。
2	Status	工作状态指示灯。 • 快闪：设备正在启动。/设备正在进行升级。 • 长亮：设备已完成启动。/设备正常运行。 • 慢闪：设备处于待机状态。 • 不亮：设备未通电。
3	Pairing	USB-C 端口，连接至投屏器用于与投屏器进行配对连接或对投屏器进行升级。
4		Kensington 锁孔

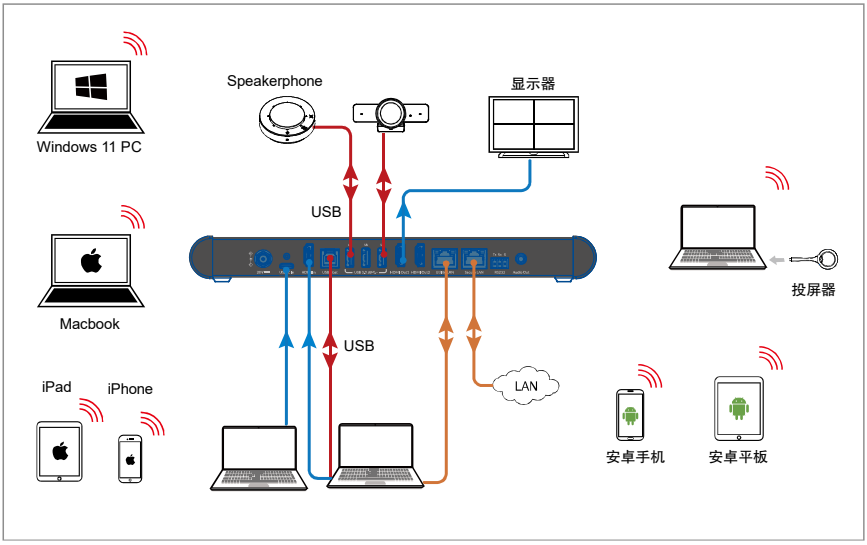
后面板



#	名称	描述
1	20V	连接至随附的 DC 20V 6A 电源适配器。
2	USB-C In	USB 3.0 type-C 端口，支持 USB-C 视频源输入、高达 65W 的 PD 充电、千兆以太网连接和 USB 3.0 传输。 连接至 USB 输入源。
3	HDMI In	连接至 HDMI 输入源。
4	USB Host	USB 3.0 type-B 端口，连接至 USB host 设备。
5	USB 3.0	3 x USB 3.0 type-A 端口，支持以下两种功能： (1) 连接 USB 外设(如鼠标、键盘、触控屏、摄像头、Speakerphone 等)以实现 USB 扩展。 注： ⇨ 键盘和鼠标不支持信号无线回传至 Dongle。 ⇨ 每一个 1A 端口支持向所连外设输出 DC 5V 1A。 (2) 连接 U 盘至任意一个 1A 端口可对设备固件进行升级，详情请参考固件升级章节。
6	HDMI Out 1-2	连接至 HDMI 显示器。
7	Utility LAN	2 x RJ-45 端口，连接至网络设备以实现 LAN 控制、网络接入和 Airplay Mirroring 信号输入。 有关网络端口的使用方法，请参考网络模式配置一节。
8	Secure LAN	
9	RS232	3 针 3.5mm 凤凰端子连接座，支持如下两种功能： (1) 连接至 RS232 外设(如投影仪)以控制该外设(com 模式)。 (2) 连接至 RS232 设备(如 PC)以控制本设备(api 模式)。 默认设置：com 模式。关于 RS232 端口工作模式配置的更多信息，请参考设备的 API 文档。
10	Audio Out	模拟音频输出端口，连接至音频接收端(如功放)以输出非平衡模拟音频。 提示：此端口始终输出与 HDMI 1&2 相同的音频。

应用

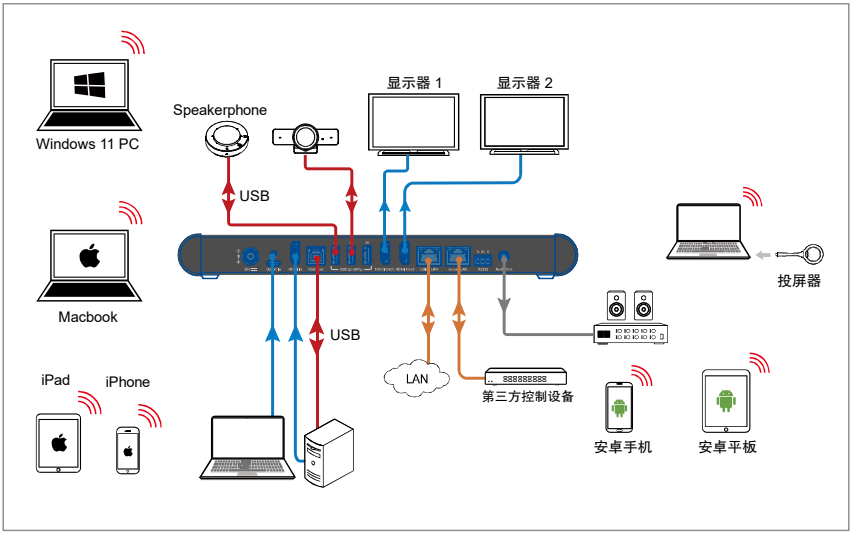
应用场景一



要点:

- 将投屏器插入笔记本电脑(确保投屏器已提前与本设备提前成功配对)，笔记本电脑可通过投屏器无线连接至本设备，并访问设备所连摄像头和 speakerphone。
- 用户可以通过 Airplay 和 Miracast 的投屏方式将笔记本电脑和移动设备无线投屏至 HDMI 显示器上。
- 当设备仅有一路 HDMI 输出连接至 HDMI 显示器时，设备将激活多画面显示功能。

应用场景二



要点:

- 将投屏器插入笔记本电脑(确保投屏器已提前与本设备提前成功配对)，笔记本电脑可通过投屏器无线连接至本设备，并访问设备所连摄像头和 speakerphone。
- 用户可以通过 Airplay 和 Miracast 的投屏方式将笔记本电脑和移动设备无线投屏至 HDMI 显示屏上。

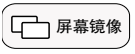
主要功能

无线投屏

如您正在使用电脑并希望在另一台显示设备上显示电脑界面，您也许会考虑将电脑内容无线投屏至屏幕上。

本设备支持无线投屏，用户可通过 Airplay Mirroring、Miracast 和投屏器等方式在显示屏上无线共享移动设备的内容。在本手册中，可用于无线投屏的移动设备称为“投屏信号源”，它包括苹果设备(iPhone/iPad/Mac)、Android 手机、Windows 电脑和投屏器等设备。

通过 Airplay 投屏(适用于苹果设备)

1. 连接 iPhone/iPad/Mac 至本设备的 Wi-Fi。
   - ⇨ **Wi-Fi SSID**: 与设备名称相同，也可以通过显示器右上角的 OSD 信息获取。
     默认设置：**eShare W90**
   - ⇨ **密码**: 通过网页版用户界面设置；密码可通过显示器右上角的 OSD 信息获取。
     默认设置：**12345678**
2. 在苹果设备上打开控制中心，点击 

并在弹出菜单中选择本设备对应的名称（设备名称可通过显示器右上角的OSD信息获取)。
3. 如需断开苹果设备与本设备之间的连接：单击**停止镜像**；显示器将不再显示苹果设备屏幕的内容。

通过 Miracast 投屏（适用于安卓设备和 Windows 电脑)

以华为手机为例：

1. 开启手机的 Wi-Fi 或 WLAN 功能。
2. 在手机上，手指从屏幕上方往下滑动，在弹出的控制中心页面里轻点无线投影图标 

,从出现的可用设备列表中选择本设备对应的名称进行投屏（设备名称可通过显示器右上角的 OSD 信息获取)。
3. 如需断开手机与本设备之间的连接：在手机上轻点“断开连接”。

注:

- 不同手机的 Miracast 功能的图标、界面等内容可能会有所不同，详情请参考手机的用户手册获取指导。
- 如无法执行 Miracast 投屏操作，建议关闭手机的 Wi-Fi 或者 WLAN 功能后再重新开启，或者重启手机。

使用 Windows 电脑(Windows 10 及以上)

1. 开启电脑的 WLAN 功能。
2. 单击电脑的组合按键 “ + K”，从弹出的可用设备列表中选择本设备对应的名称进行投屏(设备名称可通过显示器右上角的 OSD 信息获取)。
3. 如需断开电脑与本设备之间的连接：单击**断开连接**；显示器将不再显示电脑屏幕内容。

注：

- 不同电脑之间的 Miracast 功能的图标、界面和提示等内容可能会有所不同。
- 由于兼容性问题，某些 Windows 10 电脑可能无法使用 Miracast 功能。

提示：Airplay 和 Miracast 功能都支持接入码。如在操作设备过程中遇到要求输入 PIN 码的情况，请先查看 HDMI 显示屏上的 OSD 信息以获取接入码，该接入码即为对应的 PIN 码。关于 OSD 的更多信息，请查看 OSD 章节。

通过投屏器投屏

通过使用 eShare D30 投屏器，用户可快速将笔记本电脑的内容无线共享至显示器，无需另外安装驱动。

注：

(1) eShare D30 投屏器需另行购买。

(2) 将 eShare D30 投屏器插入电脑之前，请务必确保电脑的 USB-C 端口支持视频输出。

想要使用投屏器无线共享电脑内容，可参考如下步骤：

1. 将投屏器与设备进行配对
   将投屏器连接至设备的 PAIRING 接口进行配对，当显示屏上显示 “Pairing successful”时，代表二者配对成功。
2. 将已配对的投屏器连接至笔记本电脑
   连接成功后，投屏器的 LED 指示灯停止闪烁变为长亮。
3. 短按投屏按钮即可无线共享电脑屏幕。
4. 中止投屏：再次短按投屏按钮，电脑将停止共享屏幕，本设备将切换至使用投屏器投屏前的信号源。

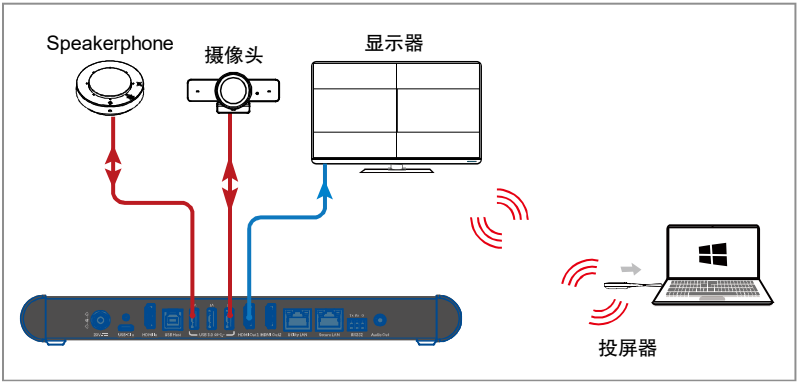
注：有关更多投屏器的信息，请参考对应的用户指导。

无线会议

无线会议功能允许 PC 通过接入投屏器从而无线访问连接在本设备上的 USB 会议外设(如 USB 摄像头、speakerphone 等)。

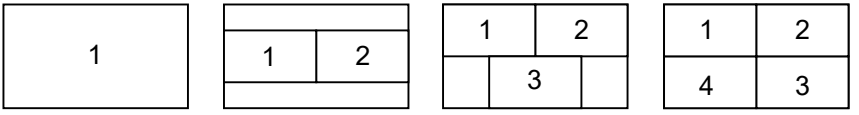
使用方法如下：

1. 将 USB 外设连接至设备的 USB-A 端口。
2. 将投屏器与设备进行配对。
   连接投屏器至设备的 Pairing 端口以进行配对。配对完成后，从设备上移除投屏器。
3. 连接投屏器至 PC。
   连接投屏器至 PC 的 USB-C 端口；数秒之后投屏器将准备就绪。
   提示：请确保 PC 的 USB-C 端口支持视音频输出。
4. 轻按投屏器上的无线会议按钮，PC 将以无线方式连接至本设备所连的 USB 外设。



多画面

当仅有一路 HDMI 输出端口 (HDMI OUT1 或 HDMI OUT2) 连接至 HDMI 显示器时，设备支持多画面显示，即最多可以在同一屏幕上显示四路视频源。



如四路视频源在 HDMI OUT1 或 HDMI OUT2 所连接的显示屏上以四画面模式播放，若此时连接一路新的视频源至设备，此输入源将取代之前四路视频源中播放时间最长的一路并输出。

注意：多画面功能默认开启，也可在网页版用户界面上关闭(用户界面 > Video Settings > Video Switching)。

自动切换

设备的自动切换功能允许用户快速切换至想要播放的视频源。此功能遵循“后进先出”原则：

1. 当仅有一路视频源连接至设备时，HDMI OUT 1 和/或 HDMI OUT 2 自动输出此视频源至显示屏。
2. 当四路视频源在同一显示屏上同时显示的情况下，继续接入一路视频源时，新输入的视频源将取代其中一路视频源显示在屏幕上。详情请查看多画面章节。
3. 当设备未检测到视频源输入时，经过一段时间后，设备最终输出向导屏幕。

两路 HDMI 输出的显示方式

当 HDMI OUT1 和 HDMI OUT2 分别连接至不同显示屏时，设备将关闭多画面显示功能，此时两路 HDMI 输出通道的运行机制如下：

(1) 每路 HDMI 输出在其对应的显示屏上以单一视图显示。

(2) 如设备未检测到有效视频源输入，两路 HDMI 输出将输出向导屏幕。

(3) 如设备仅检测到一路视频源输入，则两路 HDMI 输出都输出这一路视频源。

(4) 在已有一路视频源输入的情况下，此时新增加一路输入源，则新增的输入源被分配至 HDMI OUT2，原有输入源仍通过 HDMI OUT1 输出。

(5) 在已有两路视频源输入的情况下，此时新增加一路输入源，则新增的输入源将替代较早开始播放的输入源，从而通过对应的 HDMI OUT 端口输出。

网络模式配置

设备内置两路以太网端口以提升组网灵活性和安全性，支持两种网络配置模式：

- 透明模式（默认设置）
  透明模式下，两路以太网端口互通互连，其中任意一个端口都能连接至控制设备所在的网络以控制本机，另一个端口可用于 BYOD 通信或为其他所连设备提供网络连接。
- 隔离模式
  当网页版用户界面上的“Secure Ethernet Mode”配置项设置为启用时，将激活隔离模式。更多信息请参考 Wired Network (网络设置) 一节。
  在隔离模式下，Secure LAN 端口用于控制设备，Utility LAN 端口用于 BYOD 通信和为所连设备提供网络连接。

向导屏幕

当设备未检测到有效视频源输入时将输出向导屏幕。向导屏幕可为用户提供基本的操作连接指导，并支持通过网页版用户界面对其进行个性化定制。

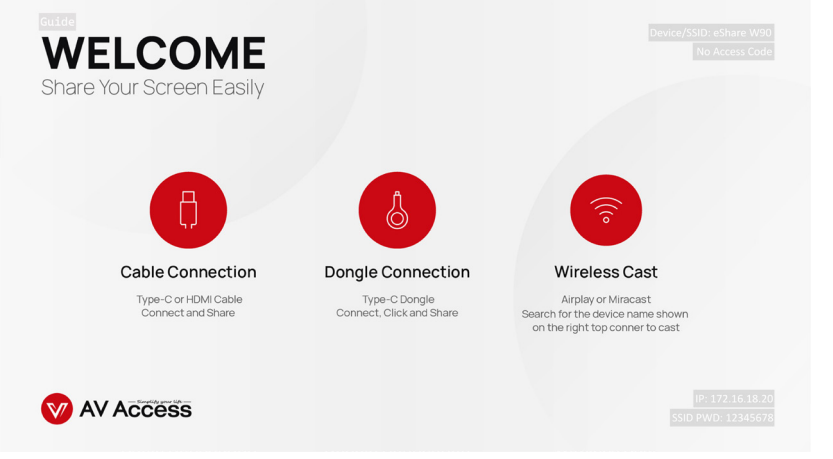


图 1 – 向导屏幕

提示:

- 向导屏幕图片可通过网页版用户界面进行个性化定制，详情参见下文 System Settings 章节。
- 默认情况下，当向导屏幕持续输出的时间达到 60 秒时，输出端所连接的显示屏将出现一个长达 60 秒的倒计时。倒计时结束后，如显示器支持 CEC 功能，显示器将进入待机状态。

OSD

设备提供 OSD 显示功能，即输出端显示屏上将显示视频源信息、接入码、设备名称和 IP 地址等内容，如图 2 和图 3 所示。

示例一：单画面显示

图 2 – OSD 示例一

示例二：双画面显示

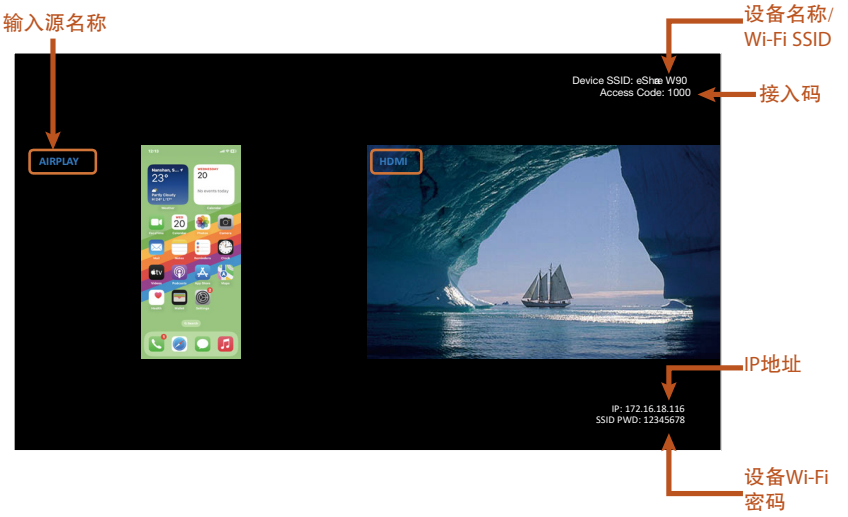


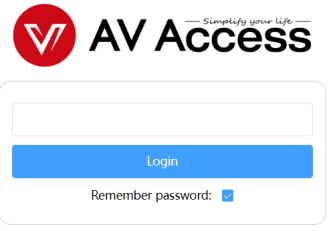
图 3 – OSD 示例二

网页版用户界面

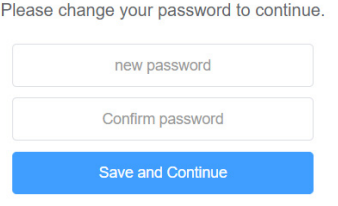
设备提供网页版用户界面，方便用户对设备进行快速直观的控制与设置。该网页版用户界面可通过 Chrome、Safari、FireFox、Opera、Microsoft Edge 等浏览器(确保浏览器为最新版本)访问。

网页版用户界面登录步骤如下：

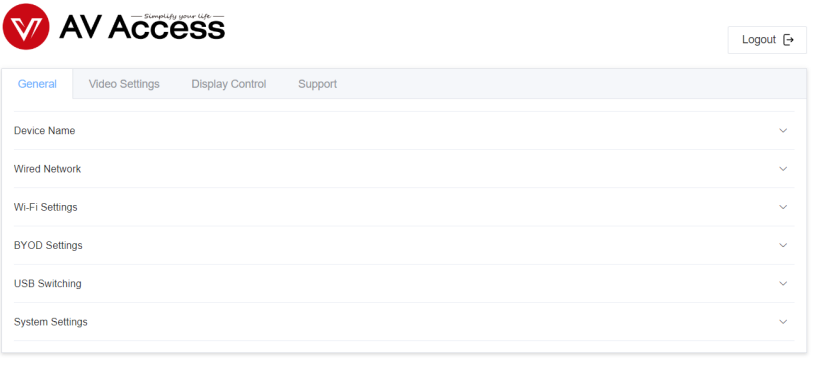
1. 连接本设备的 LAN 端口至局域网（确保该网络已部署 DHCP 服务器，以便为设备分配一个有效的 IP 地址)。
2. 连接电脑到本设备所在的网络。
3. 在浏览器的地址栏输入本设备的IP地址，点击回车，弹出登录窗口（想要快速查看设备 IP 地址，可参考 OSD 章节)。



4. 输入登录密码(默认密码为 admin)，点击 **Login**。
5. 在弹出的对话框中设置新的网页登录密码，点击 **Save and Continue** 进入到主页。所设置的密码仅支持由字母和/或数字构成，长度为 4~16 位。



网页版用户界面包含如下子菜单：

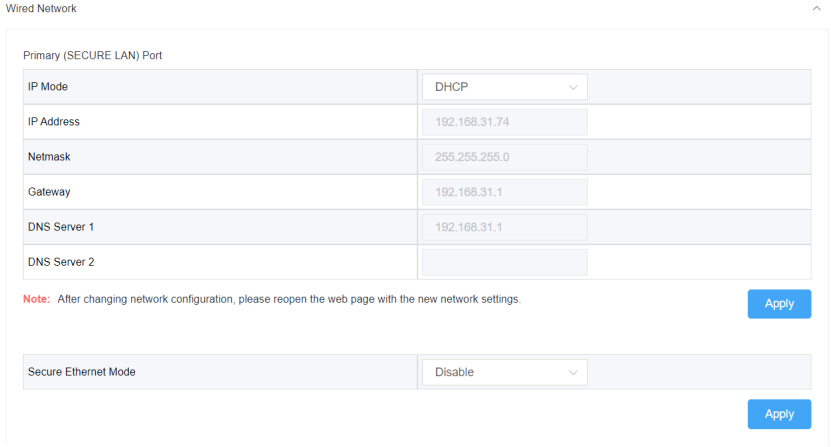


General 通用设置

Device Name (设备名称)

名称	描述
Device Name	用于修改设备名称（此名称同时也是 Wi-Fi 以及设备作为 Airplay 和 Miracast 接收端的名称)。 注：该名称必须为 1 至 20 个字符长度以内，支持字母、数字、空格、下划线"_"和连接符"-"，且空格不能位于开头和结尾。 默认设置: **eShare W90**
Apply	应用设置。

Wired Network (网络设置)



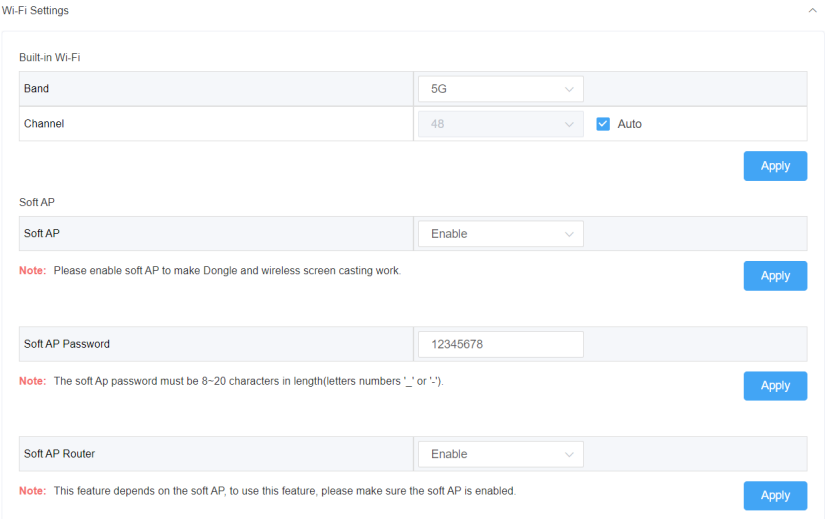
对于主网口(Secure LAN)：

名称	描述
IP Mode	更改本设备的动态或静态 IP 地址设置。 • **DHCP**: 点击该选项，设备的 IP 地址将通过网络中的 DHCP 服务器自动分配。 • **静态**: 点击该选项，可对设备的 IP 地址进行手动设置。 默认设置：**DHCP**
IP Address	为设备手动设置 IP 地址（当 IP 地址获取方式设为静态时有效）
Netmask	为设备手动设置子网掩码（当 IP 地址获取方式设为静态时有效）
Gateway	为设备手动设置网关地址以实现与不同网络互连（当 IP 地址获取方式设为静态时有效）
DNS Server 1	为设备手动设置域名服务器地址以确保正常上网（当 IP 地址获取方式设为静态时有效）
DNS Server 2	
Apply	点击以应用设置。 注: 网络设置被修改后，请关闭此页面并使用新的网络设置重新登录用户页面。

对于安全以太网模式：

名称	描述
Secure Ethernet Mode	配置网络模式。 • **Enable**: 激活隔离模式。 在隔离模式下，“SECURE LAN”端口用于控制本设备，“UTILITY LAN”端口用于 BYOD 通信和连接网络。 • **Disable**: 激活透明模式。 在透明模式下，两个端口互通互连。 默认设置: **Disable** 提示：关于网络模式的更多信息，请查看网络模式配置一节。

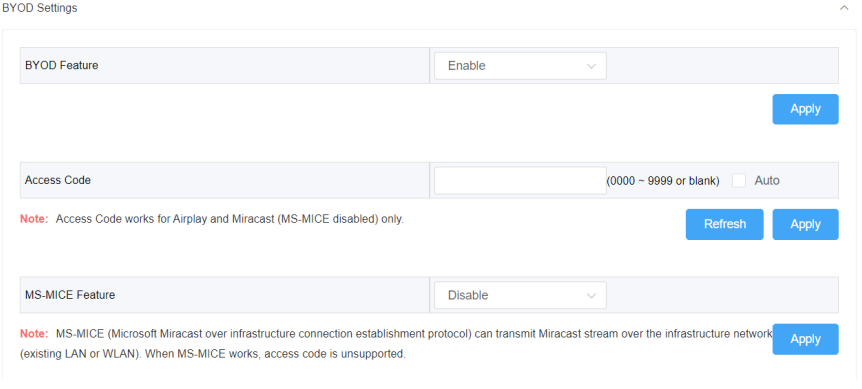
Wi-Fi Settings (Wi-Fi 设置)



名称	描述
Wi-Fi Band	• **5G**: 设置设备的 Wi-Fi 频段为 5GHz。 • **2.4G**: 设置设备的 Wi-Fi 频段为 2.4GHz。 默认设置：**5G** 注：设备默认的 Wi-Fi 信号频段为 5GHz。如您所使用的无线设备不支持 5GHz Wi-Fi，请先设置其工作频段为 2.4GHz 后再通过 Miracast 连接至此设备。
Wi-Fi Channel	为设备设置无线信道。 • **Auto**: 设备将根据实际情况自动选取一路无线信道。 • 固定的信道列表: 从下拉菜单选择一个特定值，将其设置为设备的信道。 默认设置：**Auto**
Soft AP	• **Enable**: 开启设备软 AP 功能。 • **Disable**: 关闭设备软 AP 功能。 默认设置: **Enable** **注**：如欲使用投屏器和无线投屏功能，请先确保软 AP 功能已开启。
Soft AP Password	设置软 AP 密码。 **注**： • 软 AP 的名称与设备名称相同。

名称	描述
	• 软 AP 的密码长度必须在 8-20 个字符之间，密码可由字母、数字、下划线“_”和连接符“-”组成；密码不可以设置为空。 **默认设置：**12345678
Soft AP Router	• **Enable**：开启设备的软 AP 路由功能，以便连接至软 AP 的无线设备访问互联网（请确保本设备的 LAN 端口已连接至互联网）。 • **Disable**：关闭设备的软 AP 路由功能以禁止连接至软 AP 的无线设备访问互联网。 默认设置: **Enable** **注**：如欲使用软 AP 路由功能，请先确保软 AP 功能已开启。
Apply	单击以应用设置。

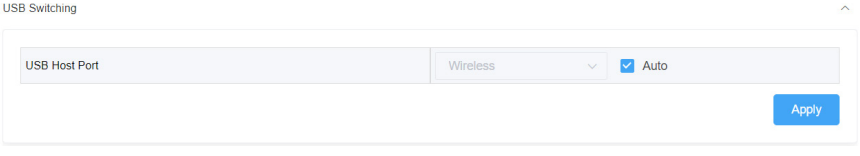
BYOD Settings (BYOD 设置)



名称	描述
BYOD Feature	• **Enable**: 开启 BYOD 功能，用户可使用无线设备对本设备进行投屏操作。 • **Disable**: 关闭 BYOD 功能，用户将不能使用无线设备对本设备进行投屏操作。 **默认设置：Enable**
Access Code	输入四位数字以设置设备接入码；接入码可防止其他设备误连接此设备或者未经授权的访问。 提示：

名称	描述
	• 接入码由四位数字组成，范围为 0000 至 9999；如不想设置接入码，可在此处留空。 • 选择"Auto"后，设备将自动随机生成接入码。 • 接入码设置成功后，将会显示在 OSD 上。 默认设置：无接入码
MS-MICE Feature	启用或关闭 MS-MICE 功能。 MS-MICE 是"Microsoft Miracast over Infrastructure Connection Establishment"协议的缩写，可在已有的 LAN 或 WLAN 网络中传输 Miracast 码流，由 Microsoft 开发并被视为 Miracast 的增强版。 • **Enable**: 启用 MICE，当 Miracast 源与 Miracast 接收端之间通过有线网络或安全的 Wi-Fi 网络连接时，Windows 仅选择基础设施网络传输信号；否则将通过 Wi-Fi P2P 网络传输信号。 • **Disable**: 禁用 MICE，Windows 将通过 Wi-Fi P2P 网络传输投屏信号。 默认设置：**Disable** 注：使用此功能时，接入码功能不可用。
Apply	点击以应用设置。

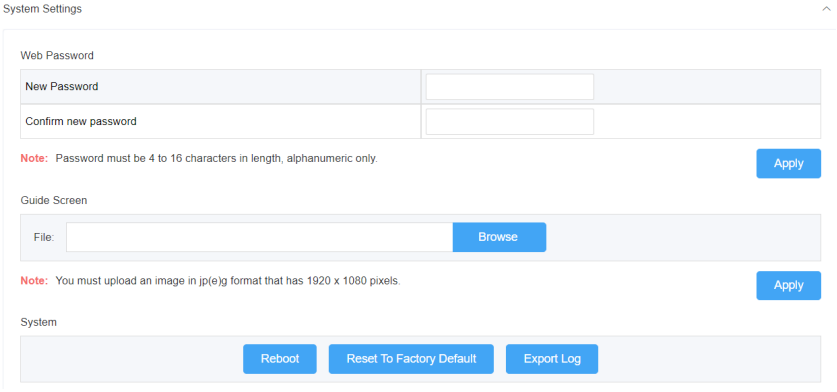
USB Switching (USB 切换)



名称	描述
USB Host Port	从下拉菜单中选择 USB Host 端口： • **USB-C**: 将 USB-C IN 端口选择为 USB Host。 • **USB Host**: 将 USB Host 端口选择为 USB Host。 • **Wireless**: 将投屏器选择为 USB Host。 • **Auto**: 点击此选项，设备将在上述三个通道之间自动选择其中一个作为 USB Host，即最近连接的 USB 通道（USB-C IN / USB HOST / 投屏器）将会被自动选择为 USB Host。

名称	描述
	默认设置：**Auto**
Apply	点击以应用设置。

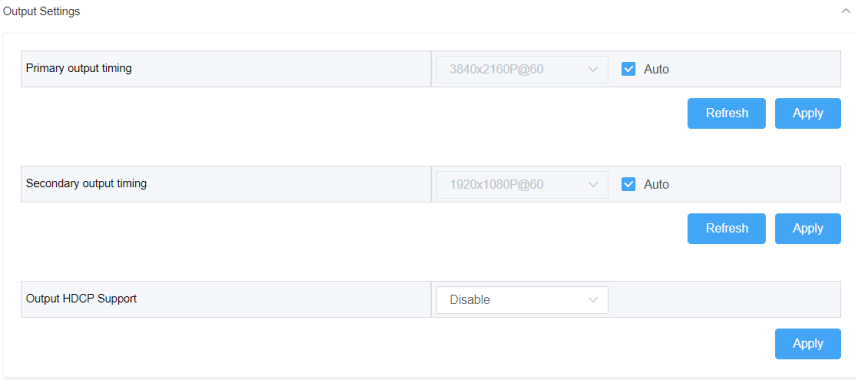
System Settings (系统设置)



名称	描述
Web Password	• **New Password/Confirm new Password**: 设置用于登录网页版用户界面的登录密码。 • **Apply**: 单击以应用设置。 **注意：**新密码长度必须在 4-16 个字符之间，由数字或字母组成。
Guide Screen	• **Browse**: 点击以从本地选取新的向导屏幕图片。 注：请确保上传图片的分辨率为 1920x1080，格式为 jpg 或 jpeg。 • **Apply**: 点击以上传图像至本设备。
System	• **Reboot**: 点击以重启设备。 • **Reset to Factory Default**: 点击以恢复设备所有设置至默认出厂状态。长按前面板 Reset 按钮也可实现此功能。 • **Export Log**: 点击以导出设备的工作日志(.tar.gz)。

Video Settings 视频设置

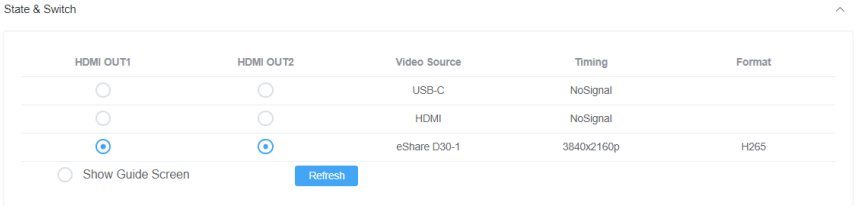
Output Settings (输出设置)



名称	描述
Primary output timing	设置 HDMI OUT 1 输出端口的输出分辨率。提供如下两种设置方式： • **Auto**：切换器根据显示器的 EDID 输出显示器所支持的最佳分辨率。例如，显示器推荐的分辨率为 4K@60Hz，切换器则输出 4K@60Hz。 • 分辨率范围列表：从下拉菜单里选择目标输出分辨率，切换器将输出目标分辨率。HDMI OUT 1 最高支持 3840x2160P @60Hz 的分辨率。 默认设置: **Auto**
Secondary output timing	设置 HDMI OUT 2 输出端口的输出分辨率。提供如下两种设置方式： • **Auto:** 切换器根据显示器的 EDID 输出显示器所支持的最佳分辨率。 • 分辨率范围列表: 从下拉菜单里选择目标输出分辨率，切换器将输出目标分辨率。HDMI OUT 2 最高支持 3840x2160P @30Hz 的分辨率。 默认设置: **Auto**

名称	描述
Output HDCP Support	设置输出端口的 HDCP 支持功能。 • **Enable**: 开启输出端口的 HDCP 支持功能。开启后，输出端口的 HDCP 设置将根据所连显示器的 HDCP 性能动态调整。 • **Disable**: 关闭输出端口的 HDCP 支持功能。 默认设置: **Enable**

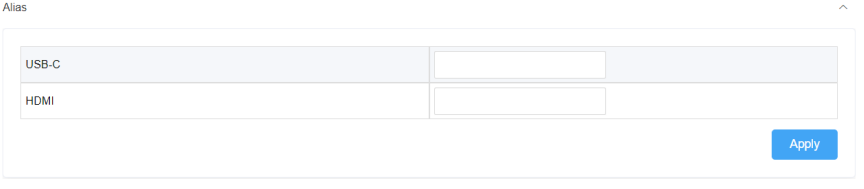
State & Switch (状态&切换)



此区域用于为输出端口选择输入源，同时提供各输入源的状态、输入源名称、输入分辨率及格式等信息。

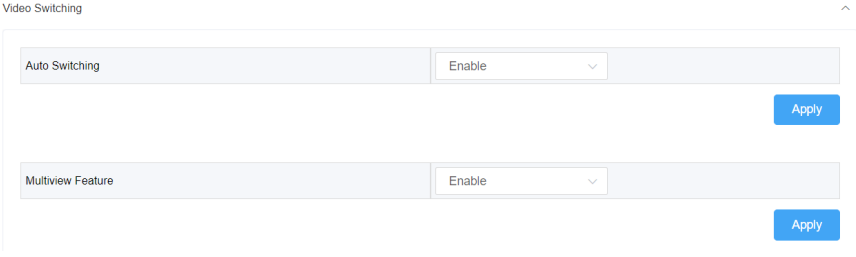
名称	描述
HDMI OUT1 &HDMI OUT2	点击按钮以选择要播放的输入源(按钮由白色变为蓝色)，或者取消当前选择的输入源的播放(按钮由蓝色变为白色)。
Show Guide Screen	点击按钮以输出向导屏幕(按钮由白色变为蓝色)。
Refresh	单击以刷新至最新的切换状态信息。

Alias (别名)



名称	描述
Alias	为输入源通道设置新的别名。 提示：别名长度必须在 1 至 20 个字符长度之间，支持字母、数字、下划线“_”和连字符“-”，但不能以连字符“–”开头且不能是纯数字。如无需设置别名，此处可留空。
Apply	点击以执行设置。

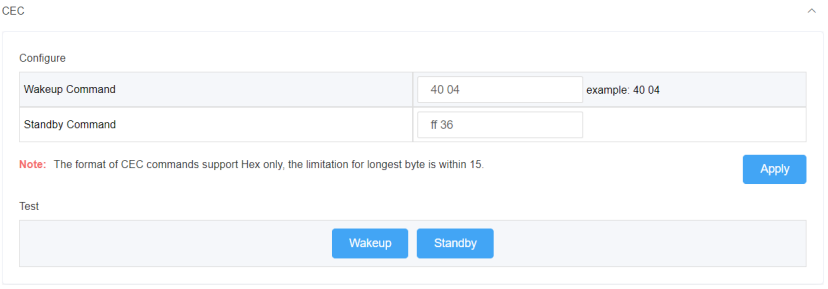
Video Switching (视频切换)



名称	描述
Auto Switching	• **Enable**: 启用自动切换功能。 • **Disable**: 关闭自动切换功能。 默认设置: **Enable** 注意：想要了解自动切换功能的更多信息，请参考自动切换一节。
Multiview Feature	• **Enable**: 开启多画面显示功能。 • **Disable**: 关闭多画面显示功能。 默认设置: **Enable**

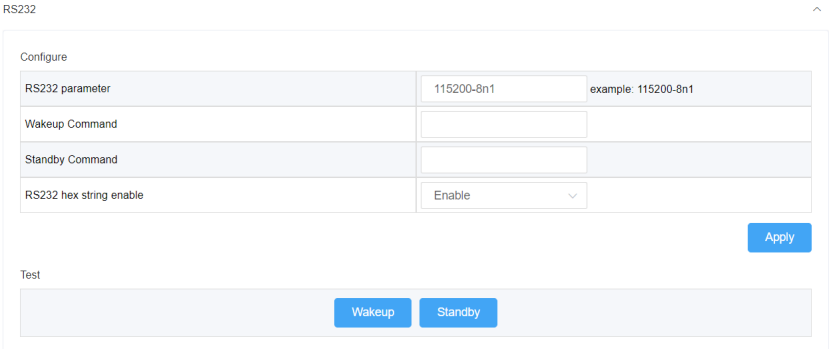
Display Control 显示屏控制

CEC



名称	描述
Wakeup Command	输入受控显示设备十六进制形式的 CEC 开机指令。想要了解更多关于显示设备的 CEC 指令，请查看其对应的用户手册。 默认设置：**40 04** 注：输入的指令必须为十六进制形式，且长度不能超过 15 个字节。
Standby Command	输入受控显示设备十六进制形式的 CEC 待机指令。想要了解更多关于显示设备的 CEC 指令，请查看其对应的用户手册。 默认设置：**ff 36** 注：输入的指令必须为十六进制形式，且长度不能超过 15 个字节。
Apply	点击以保存并执行以上设置。
Wakeup	点击以发送 CEC 开机指令至所连接的显示设备。
Standby	点击以发送 CEC 待机指令至所连接的显示设备。

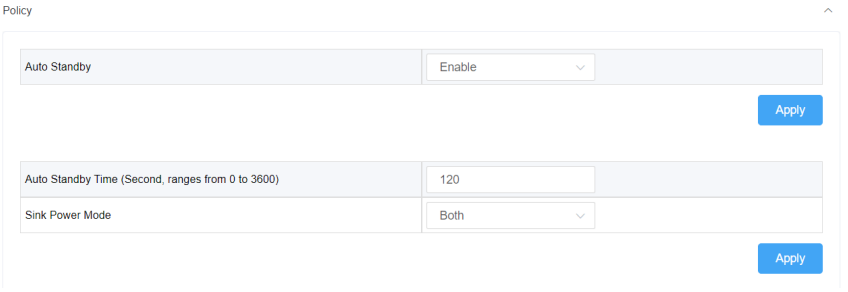
RS232



<table>
<tr><th>名称</th><th>描述</th></tr>
<tr><td>RS232 Parameter</td><td>设置显示器的 RS232 串口参数 (想要了解显示器的相关参数，请参考显示器的用户手册)。
<table>
<tr><th>参数</th><th>参数值</th><th>缩写</th></tr>
<tr><td>Baud Rate</td><td>115200bps</td><td>115200</td></tr>
<tr><td>Data Bits</td><td>8bits</td><td>8</td></tr>
<tr><td>Parity</td><td>None</td><td>n</td></tr>
<tr><td>Stop Bits</td><td>1</td><td>1</td></tr>
</table>
默认设置: 115200-8n1</td></tr>
<tr><td>Wakeup Command</td><td>输入唤醒显示器的 RS232 串口命令 (想要了解显示器的相关参数，请参考显示器的用户手册)。
如不使用此功能，可留空。
默认设置为空。</td></tr>
<tr><td>Standby Command</td><td>输入控制显示器待机的 RS232 串口命令 (想要了解显示器的相关参数，请参考显示器的用户手册)。
如不使用此功能，可留空。
默认设置为空。</td></tr>
<tr><td>RS232 hex string enable</td><td>设置 RS232 命令的格式。
• Enable: 将控制显示器待机和唤醒的 RS232 命令以十六进制字符串的形式发送。例如，用于唤醒显示器的 RS232 命令的十六进制字符串形式可以是 50 57 52 20 4F 4E 0D 0A。
• Disable: 将控制显示器待机和唤醒的 RS232 命令以字符串的形式发送。
默认设置：Enable</td></tr>
<tr><td>Wakeup</td><td>点击以发送唤醒显示器的 RS232 指令。</td></tr>
</table>

名称	描述
Standby	点击以发送控制显示器待机的 RS232 指令。
Apply	点击以保存并执行以上设置。

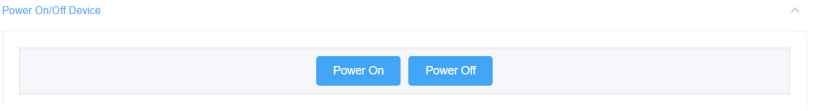
Policy (策略)



名称	描述
Auto Standby	• **Enable**: 启用自动待机功能。启用之后，当设备在所定义的一段时间内未检测到有效信号输入时，将自动进入待机状态。 • **Disable**: 禁用自动待机功能。禁用之后，设备将不会自动进入待机状态。 默认设置: **Enable**
Auto Standby Time (Second, ranges from 0 to 3600)	设置自动待机超时，当设备未检测到有效信号源输入的时间超过所设置的超时时长后，将自动进入待机状态。(有效设置范围：0~3600 秒) • 如所设置的待机超时小于 60 秒，当设备开始输出向导屏幕时，剩余时长的待机倒计时将出现在显示器上。 • 如所设置的待机超时大于 60 秒，当待机超时仅剩下最后 60 秒时，60 秒时长的待机倒计时将出现在显示器上。 • 自动待机超时设为 0 时，则代表设备在输出向导屏幕后将立即进入待机模式。 例如，把自动待机超时设置为 80 秒，代表设备在 80 秒内未检测到有效信号时输入时，将自动进入待机模式。在此期间，当设备输出向导屏幕 20 秒后，显示器上将出现一个 60 秒时长的倒计时，当倒计时数到 0 时，设备将进入待机状态。 默认设置：**120**

名称	描述
Sink Power Mode	• **Both**: 启用 CEC 和 RS232 两种方式控制显示器开关机。 • **CEC**: 仅启用 CEC 方式控制显示器开关机。 默认设置：**Both**
Apply	点击以执行设置

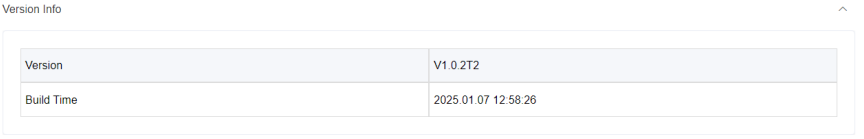
Power On/Off Device (设备开机/关机)



名称	描述
Power On	点击以唤醒本设备
Power Off	点击以控制本设备进入待机状态

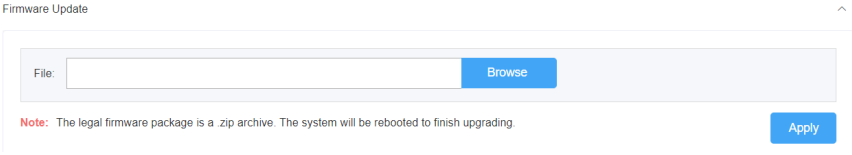
Support 支持

Version Info (版本信息)



名称	描述
Version	显示设备固件版本信息
Build Time	显示设备固件构建时间

Firmware Update (固件更新)



名称	描述
Firmware Update	• **Browse:** 点击以从本地选取固件升级文件。 • **Apply:** 点击以上传固件升级文件至设备。

固件升级

本设备支持通过网页版用户界面或后面板 USB-A 端口执行固件升级操作。

通过 USB-A 端口升级固件的步骤如下：

1. 将固件升级文件的名称命名为“FSC640-update.zip”。
2. 准备一个 FAT32 或 NTFS 格式的 U 盘，在根目录下创建文件名为“upgrade”的文件夹。将步骤 1 中的升级文件存放在此文件夹里。
3. 将 U 盘插入设备的 USB-A 端口，设备将开始读取 U 盘数据，读取过程耗时约 1 分钟。如检测到 U 盘内的升级文件为更新的版本，设备将启动升级操作。设备升级成功后自动重启。

注：

- 升级过程中切勿关闭设备电源，否则可能引起设备损坏。
- 若此设备检测到 U 盘内的升级文件版本不高于当前安装版本，将不会启动升级。

规格

技术	
输入视频端口	1 x HDMI In; 1 x USB-C In; 2 x LAN, 10/100/1000Mbps Ethernet; 2 x Wi-Fi
输入视频信号	• HDMI: HDMI 1.4, HDCP 1.4 • USB-C: DisplayPort 1.1, HDCP 1.4 • LAN/Wi-Fi: H.264
输入分辨率	**HDMI/USB-C:** 640x480[8], 800x600[8], 1024x768[8], 1280x768[8], 1280x800[8], 1280x1024[8], 1360x768[8], 1366x768[8], 1440x900[8], 1400x1050[8], 1600x1200[8], 1680x1050[8], 1920x1200[8], 720x480[8] (480p), 720x576[6] (576p), 1280x720[5] (720p30), 1280x720[6] (720p50), 1280x720[8] (720p60), 1920x1080[2] (1080p24), 1920x1080[3] (1080p25), 1920x1080[5] (1080p30), 1920x1080[6] (1080p50), 1920x1080[8] (1080p60), 3840x2160[2](2160p24), 3840x2160[3](2160p25), 3840x2160[5](2160p30) **Miracast (Wi-Fi):** 640x480[8], 720x480[8] (480p), 720x576[6] (576p), 1280x720[2], 1280x720[3], 1280x720[5](720p30), 1280x720[6](720p50), 1280x720[8] (720p60), 1920x1080[2] (1080p24), 1920x1080[3] (1080p25), 1920x1080[5](1080p30), 1920x1080[6](1080p50), 1920x1080[8](1080p60) **Airplay Mirroring (LAN/Wi-Fi):** 最高 1920x1080[8](1080p60) **Google Cast* (LAN/Wi-Fi):** 最高 1920x1080[5](1080p30) **USB-C Dongle:** 1920x1080[8](1080p60), 3840x2160[5](2160p30) 1 = 23.98Hz, 2 = 24Hz, 3 = 25Hz, 4 = 29.97Hz, 5 = 30Hz, 6 = 50Hz, 7 = 59.94Hz, 8 = 60Hz
输出视频端口	2 x HDMI
输出视频信号	HDMI 2.0, HDCP 2.2
输出分辨率	**HDMI OUT1:** 720x480[8] (480p60), 720x576[6] (576p60), 640x480[8], 800x600[8], 1024x768[8], 1280x720[6](720p50), 1280x720[8] (720p60), 1280x800[8], 1280x1024[8], 1366x768[8], 1440x900[8], 1600x1200[8],

技术	
	1680x1050[8], 1920x1200[8], 1920x1080[2] (1080p24), 1920x1080[3] (1080p25), 1920x1080[5] (1080p30), 1920x1080[6] (1080p50), 1920x1080[8] (1080p60), 3840x2160[3] (2160p25), 3840x2160[5] (2160p30), 3840x21606(2160p50), 3840x21608(2160p60) **HDMI OUT2:** 720x480[8] (480p60), 720x576[6] (576p60), 640x480[8], 800x600[8], 1024x768[8], 1280x720[6](720p50), 1280x720[8] (720p60), 1280x800[8], 1280x1024[8], 1366x768[8], 1440x900[8], 1600x1200[8], 1680x1050[8], 1920x1200[8], 1920x1080[2] (1080p24), 1920x1080[3] (1080p25), 1920x1080[5] (1080p30), 1920x1080[6] (1080p50), 1920x1080[8] (1080p60), 3840x2160[3](2160p25), 3840x2160[5] (2160p30) 1 = 23.98Hz, 2 = 24Hz, 3 = 25Hz, 4 = 29.97Hz, 5 = 30Hz, 6 = 50Hz, 7 = 59.94Hz, 8 = 60Hz

注：*Google Cast 功能将在后续发布的固件版本上实现。

音频	
输入音频接口	1 x HDMI; 1 x USB-C; 2 x LAN; 2 x Wi-Fi
输入音频信号	RAW PCM 2.0, 16bit, 32/44.1/48KHz 采样率
输出音频接口	2 x HDMI; 1 x 模拟音频输出
输出音频信号	RAW PCM 2.0, 16 bit, 48KHz 采样率

Wi-Fi	
标准	IEEE 802.11 a/b/g/n/ac
频率	双频, 2.4~2.4835GHz, 5.0~5.8GHz
安全协议	WEP, TKIP, AES, WPA, WPA2

控制	
控制端口	2 x RJ45, 10/100/1000Mbps 以太网；RS232
控制方式	LAN (网页版用户界面)；RS232

通用	
操作温度	0°C ~ 45°C (32 ~ 113 °F), 10% to 90%，无冷凝
存储温度	-20°C ~ 70°C (-4 ~ 158 °F) , 10% to 90%，无冷凝
静电保护	人体模式: ±8kV (气隙放电)/±4kV (接触放电)
电源	20V 6A DC
功耗（最大）	93W
设备尺寸 (W x H x D)	277.6mm x 29.1mm x 142mm
产品重量	1.0kg

产品质保

本产品提供一年的保修和人工保障服务。在下列情况中，如果设备仍可以维修但保修卡已不能使用或者不适用，我们将对维修行为进行收费。

1. 产品上标注的源序列号(由视连捷提供)被撕毁，抹除，替换，污损或难以辨认。
2. 超过保修期限。
3. 由非视连捷授权的服务合作商进行修理、拆卸或者更换配件造成的缺陷，或者未严格按照产品的用户指南使用或者操作不当造成的产品缺陷。
4. 由不可抗力造成的缺陷。包括但不限于事故、火灾、地震、雷电、海啸和战争。
5. 销售人员承诺的配置和礼品，但不包括在正常合同范围内。
6. 视连捷保留对上述条款的解释权，并随时更改，恕不另行通知。

感谢您选择视连捷的产品。

如有任何问题，请通过以下邮箱联系我们：
普通咨询：info@avaccess.com
售后/技术支持：support@avaccess.com

注意事项

1. 不得打开、拆解或修理本产品。
2. 不要在炎热、寒冷、尘土飞扬或潮湿的环境下使用；请用干布擦拭该设备。
3. 尽可能地避免抛掷，严重的抛掷力可能会造成机械损坏、故障或划伤表面。

有害物质声明

根据中国《电子信息产品污染控制管理办法》

有害物质										
部件名称	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr +6)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)	邻苯二甲酸二异丁酯 (DIBP)	邻苯二甲酸二 (2-乙基己基) 酯 (DEHP)	邻苯二甲酸二丁基酯 (DBP)	邻苯二甲酸甲苯基丁酯 (BBP)
电缆	○	○	○	○	○	○	○	○	○	○
电路板组件	○	○	○	○	○	○	○	○	○	○
塑料部件	○	○	○	○	○	○	○	○	○	○
金属部件	○	○	○	○	○	○	○	○	○	○
橡胶部件	○	○	○	○	○	○	○	○	○	○

本表格根据SJ/T 11364的规定编制
○ = 表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572规定的限量要求以下。

产品保修

保修期限	
购买日期	
购买地点	
产品序列号	
商品编号	
盖章	

日期	维修情况

AV Access
Streamlining your life