Hybrid Conference System with BYOD

eShare W80

User Manual

AV Access
Simplify your life

Table of Contents

Introduction

Overview

The eShare W80 is a high-performance BYOD presentation switcher with wireless presentation capability. It equips two built-in Wi-Fi modules and offers multiple access approaches, including Airplay Mirroring, Miracast, Dongle and physical HDMI ports, with which you can project the screen contents of your computers (Mac/Windows) or mobile devices (iPhone/iPad/ Android phone) to a display.

Multiple features like automatic signal switching, CEC, HID and USB device signal return to Dongle wirelessly, Guide Screen, OSD are also included. It is a collaboration terminal that perfect for conferencing system.

Features

- Provides two HDMI inputs and two HDMI outputs.
- Supports Dual View Display 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 and Dongle.
- Supports HID and USB device signal return to Dongle wirelessly.
- Supports HDMI input and output resolutions up to 4K@30Hz 4:4:4.
- Detailed and friendly OSD information.
- Offers friendly Web UI for easy configuration.
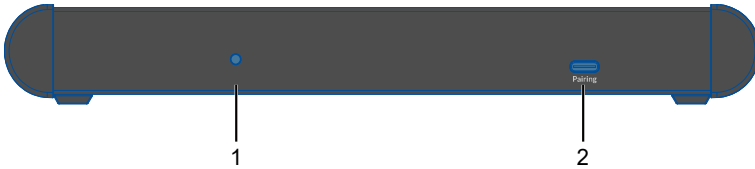
Package Contents

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

- eShare W80 x 1
- DC 12V Power Adapter x 1
- HDMI Cables (1.8m) x 2

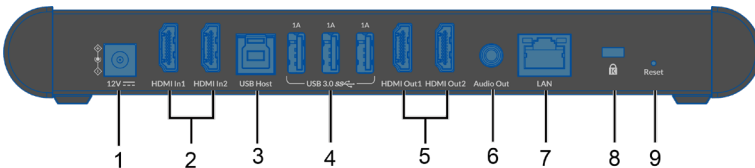- USB 3.0 Type-A to Type-B Cable (1.8m) x 1
- User Manual x 1

Panel

Front Panel

No.	Name	Description
1	Status LED	The device's 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.
2	Pairing	USB-C port. Connect to the dongle for pairing or upgrading the dongle's firmware.

Rear Panel

No.	Name	Description
1	12V	Connect to the DC 12V power adapter provided.
2	HDMI IN 1-2	Connect to HDMI sources.
3	USB Host	Connect to a USB host device.
4	USB 3.0	3 x USB-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.

No.	Name	Description
		• Each 1A port can output DC 5V 1A power to the USB peripheral device.
		(2) Connect to a U-disk for firmware upgrade. More information, see Firmware Upgrade section.
5	HDMI Out 1-2	Connect to HDMI displays.
6	Audio Out	Connect to an audio receiver for unbalanced analog audio output. Important: This port automatically outputs the audio from the latest connected source.
7	LAN	Connect to a network device (e.g. network switch, wireless router, computer, etc.) for LAN control (Web UI) and airplay mirroring signal input.
8	🔒	Kensington security slot.
9	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.

Application

Scenario 1
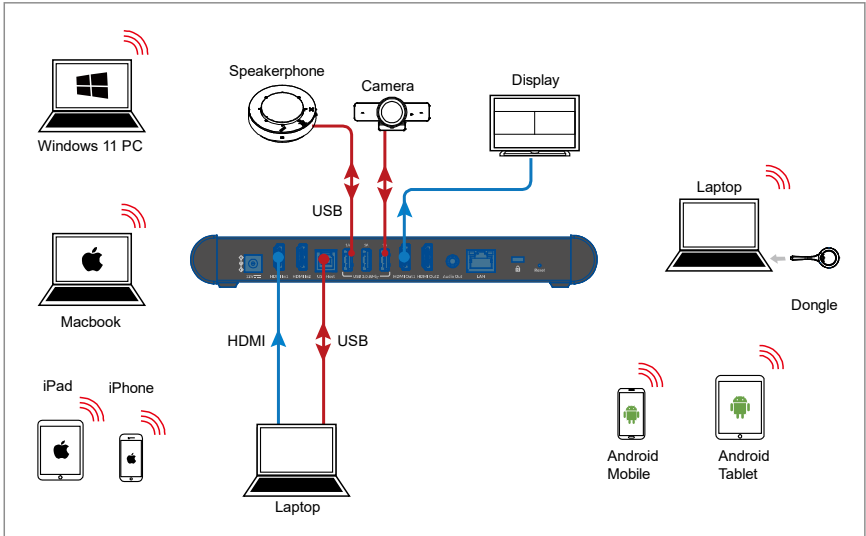
Features:

- 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, Dual View Display function will be activated in need.

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 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.
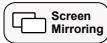
Key Functions

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 W80**.

   ⇨ **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 🖵 Screen Mirroring 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 Smart View or Wireless Projection 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 D20 Dongle, no additional installation of application is required.

Note:

(1)   eShare D20 Dongle is sold separately.

(2)   Before you plug eShare D20 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 D20 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.

Insert the Dongle into the laptop's USB-C port, it starts running and connecting to the device's Wi-Fi. 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.

Dual View Display

When only one HDMI output port (either HDMI OUT1 or HDMI OUT2) is attached to an HDMI display, the device supports Dual View Display, that is, up to two video sources can be displayed on one single screen.
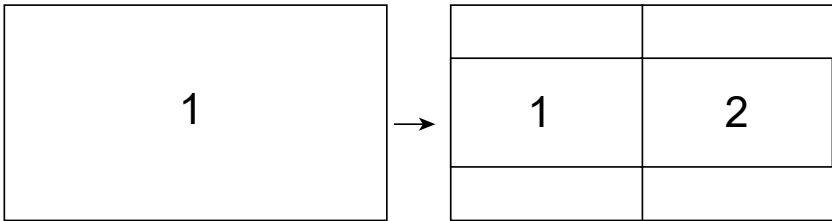
If two video sources are being played in Dual View Display mode on the display screen of HDMI OUT1/HDMI OUT2, connect an additional video source to the device, this latest input source will replace the source that displays longer on the screen.

Automatic Signal 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 two video sources are being played in dual view on one display screen, this latest input source will replace either of the sources and display on the screen. More information, see the switching mechanism in Dual View Display 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, dual view display 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 plays longer and outputs to the corresponding HDMI OUT port.

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 <u>Guide Screen Change</u> 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
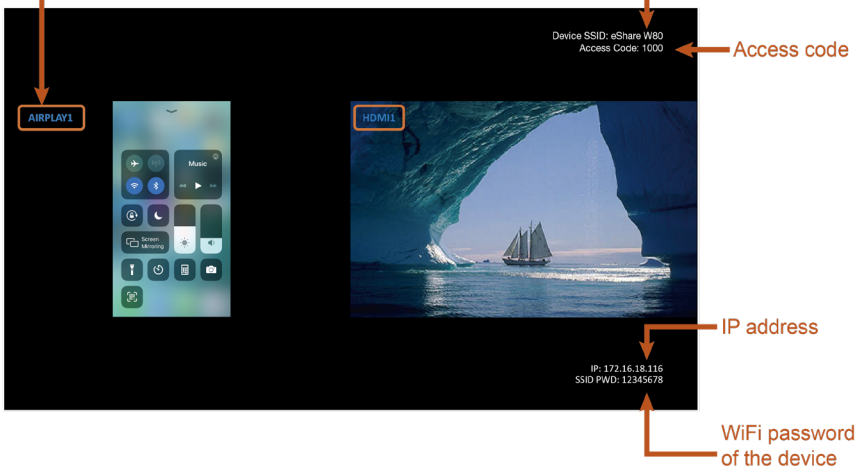
Example 2 – Displays in dual view

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.
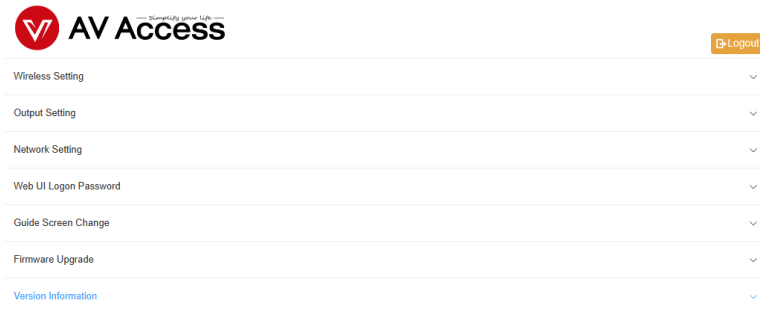

The main page is split into the following submenus: Wireless Setting, Output Setting, Network Setting, Web UI Logon Password, Guide Screen Change, Firmware Upgrade and Version Information.

Wireless Setting

UI Element	Description
Device Name	Input a name for the device. This name also acts as the WiFi name and the receiver of Airplay and Miracast. **Note:** The name must be 1~20 characters in length, including letters, numbers, space, "_" or "-", space shall not at the beginning or end. By default, it's set as **eShare W80**.
WiFi Password	Configure the Wi-Fi password. The password must be 8~20 characters in length, including letters, numbers, "_" or "-". By default, it's set as **12345678**.
WiFi Band	• **5G**: Configure the device 's frequency band as 5GHz. • **2.4G**: Configure the device's frequency band as 2.4GHz. By default, it is set as 5GHz. If your wireless devices don't support 5GHz Wi-Fi, configures the frequency band as 2.4G before connecting them to the device.
PIN shown on	Enter a four-digit PIN code (0000~9999) to help prevent users

UI Element	Description
the screen	from accidentally connecting to an unintended device and protect from an unauthorized access.
	• When the PIN code is set, it will appear on the upper right corner of the display.
	• If you don't want to set the PIN code, you can enter nothing here.
	• Auto: When "Auto" is checked, the device will randomly generate a four-digit PIN in two cases: a) the device switches to Guide Screen for output; b) the device reboots.
	By default, it's set as blank.
Apply	Click to perform current settings.

Output Setting

UI Element	Description
HDMI out1 resolution	Set the output resolution of HDMI out1. Two operation methods are offered in the following: • Auto: select to output the maximum resolution supported by the display based on the display's EDID. e.g. If display supports up to 4K@30Hz, the device will output 4K@30Hz video. • Resolution range list: select a desired output resolution from the dropdown menu to output this fixed resolution. Maximum supported resolution is 4K@30Hz. By default, it's set as Auto.
HDMI out2 resolution	Set the output resolution of HDMI out2. Two operation methods are offered in the following: • Auto: select to output the maximum resolution supported by the display based on the display's EDID. e.g. If the display supports up to 1080p@60Hz, the device will output 1080p@60Hz video. • Resolution range list: select a desired output resolution from the dropdown menu to output this fixed resolution. Maximum supported resolution is 1080p@60Hz. By default, it's set as Auto.
Refresh	Click to refresh to the latest status of the output resolution.
Output HDCP Support	To enable or disable HDCP encryption for the HDMI out 1-2. Two options are offered in the following: • **Enable:** select to enable HDCP encryption for the HDMI output. • **Disable:** select to disable HDCP encryption for the HDMI output. By default, it's set as **Enable.**
Auto Standby	Set the period of time before the countdown timer begins for auto standby. • For example, when the current output is Guide Screen, 1 minute auto standby means if there's no signal present at the display for 1 minute, the countdown timer for display standby begins; when the countdown is over, the display enters standby mode. **Note:** If the connected display doesn't support CEC, the word "Standby" appears in the middle of the Guide Screen. • If it's set to 0 minute, it means this function is disabled, you cannot set the display to standby mode.

UI Element	Description
	By default, auto standby is set as **1 minute**.
Apply	Click to perform current settings.
Dual Display Settings	This item instructs the device how to assign the two HDMI inputs to two HDMI outputs. • **Auto:** The two attached displays select video sources automatically according to the LIFO (Last in, first out) rule. For more information, refer to the Display of HDMI OUT1 and HDMI OUT2 Outputs section. • **Fixed:** The HDMI IN1 is bound with HDMI OUT1, and HDMI IN 2 is bound with HDMI OUT 2; screen mirroring sources (e.g. smartphone, tablet, laptop) are always assigned to HDMI OUT2. Tip: Prior to apply this setting item, you must ensure all HDMI input and output ports are connected to available HDMI devices. By default, it is set **Auto**.

Network Setting

UI Element	Description
IP Mode	Select an IP mode from DHCP and Static. By default, it's set as **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 communicate with another network when Static mode is selected.
DNS Server 1 DNS Server 2	Set DNS server manually for the device to ensure normal network communication.
Show IP address on Guide Screen	• **Enable:** select to show IP address on Guide Screen. • **Disable:** select not to show IP address on Guide Screen. By default, it is set as **Enable**.
Apply	Click to save and perform current settings. Note: After the IP settings are changed, please refresh the Web UI page to re-login.

Web UI Logon Password

UI Element	Description
Old Password	Input the previous login password.
New Password	Input a new password for the device to login web UI page. **Note:** The password must be 4 to 16 characters in length, alphanumeric only.
Confirm new password	
Apply	Click to perform current settings.

Guide Screen Change

- **Browse**: click to change to a new picture for the guide screen.

  Note: Picture in jp(e)g format with 1920x1080 pixels is recommended.

- **Apply**: click to upload the selected picture to the device.

Firmware Upgrade

UI Element	Description
Browse	Click to browse for the local upgrade file.
Apply	Click to upload the firmware file to the device and perform firmware upgrade.
Reboot	Click to reboot the device.
Reset to Factory Default	Click to restore the device to its factory defaults. You can also perform this task by using the Reset button on front panel.
Export Log	Click to export system log.

Version Information

Version	V1.0.17
Build Time	2023.11.07 11:10:01

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

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 <u>Firmware Upgrade </u>section.

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

1. Name the upgrade file package "FSC630-update.zip".
2. Create a new folder named "upgrade" under the root directory of a FAT32 or NTFS Udisk. Place the upgrade file in this folder.
3. Connect the Udisk to one of the device's USB-A ports. It takes about 1 minute for the device to read the Udisk. 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	2 x HDMI In; 1 x LAN, 10/100/1000Mbps Ethernet; 1 x WLAN
Input Video Signal	• HDMI: HDMI 1.4, HDCP 1.4 • LAN/WLAN: H.264
Input Resolutions	**HDMI:** $640x480^8$, $800x600^8$, $1024x768^8$, $1280x768^8$, $1280x800^8$, $1280x1024^8$, $1360x768^8$, $1366x768^8$, $1440x900^8$, $1400x1050^8$, $1600x1200^8$, $1680x1050^8$, $1920x1200^8$, $720x480^8$ (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) **LAN/WLAN:** H.264 encoding stream, up to $3840x2160^5$ (2160p30) Note: The input resolution support for LAN or WLAN may vary according to the specific BYOD protocols and devices. 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
Output Video Port	2 x HDMI
Output Video Signal	HDMI 1.4, HDCP 1.4
Output Resolutions	**HDMI OUT1:** $720x480^8$ (480p60), $720x576^6$ (576p60), $640x480^8$, $800x600^8$, $1024x768^8$, $1280x720^6$(720p50), $1280x720^8$ (720p60), $1280x800^8$, $1280x1024^8$, $1366x768^8$, $1440x900^8$, $1600x1200^8$, $1680x1050^8$, $1920x1200^8$, $1920x1080^2$ (1080p24), $1920x1080^3$ (1080p25), $1920x1080^5$ (1080p30), $1920x1080^6$ (1080p50), $1920x1080^8$ (1080p60), $3840x2160^3$ (2160p25), $3840x2160^5$ (2160p30) **HDMI OUT2:** $720x480^8$ (480p60), $720x576^6$ (576p60), $640x480^8$, $800x600^8$, $1024x768^8$, $1280x720^6$(720p50), $1280x720^8$ (720p60), $1280x800^8$, $1280x1024^8$, $1366x768^8$, $1440x900^8$, $1600x1200^8$, $1680x1050^8$, $1920x1200^8$,

Technical	
	1920x1080^2 (1080p24), 1920x1080^3 (1080p25), 1920x1080^5 (1080p30), 1920x1080^6 (1080p50), 1920x1080^8 (1080p60) 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

Audio	
Input Audio Port	2 x HDMI; 1 x LAN; 1 x WLAN
Input Audio Signal	RAW PCM 2.0, 16 bit, 32/44.1/48KHz sps
Output Audio Port	1 x HDMI OUT (HDMI OUT 1), 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, 5.2GHz and 5.8GHz
Security	WEP, TKIP, AES, WPA, WPA2

Control	
Control Connector	1 x RJ45, 10/100/1000Mbps Ethernet
Control Method	LAN (Web UI)

General	
Operating Temperature	0°C to + 45°C (32 to + 113 °F)
Storage Temperature	-20 to +70°C (-4 to + 158 °F)
Humidity	10% to 90%, non-condensing
ESD Protection	Human-body Model: ±8kV (Air-gap discharge)/±4kV (Contact discharge)
Power Supply	12V 3A DC
Power Consumption	26.5W (Max)
Device Dimensions (W x H x D)	242.6mm x 29.1mm x 142mm / 9.55" x 1.14" x 5.59"
Product Weight	0.80kg/1.76lbs

Warranty

Products are backed by a limited 1-year parts and labor warranty. For the following cases AV Access Technology Limited 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 Technology Limited) 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 Technology Limited 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 Technology Limited preserves the right for interpretation of these cases above and to make changes to them at any time without notice.

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