# EZCast ProAV Manual

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Product Overview

1-1. Benefits and Features

1. Modular design to assemble for Extender, Splitter, Matrix and Switcher for up to 15x15 applications.
2. Extends 4K 30P, 1080 60P HDMI signal up to 180m (600ft) over a single Cat5E cable, 100M Ethernet.
3. Use conventional Ethernet L2 Switch for extension and distribution, and can be cascaded by the L2 Ethernet switches for longer distance.
3. Supports IR (20KHz~60KHz) extension and RS232 extension over IP.
4. Supports Stereo Audio over IP, independent to HDMI extension.
5. Supports USB (Keyboard, Mouse) extension over IP and KVM switch function by button selection.
6. Supports EDID pass-through and Transmitter resolution pass-through, including most popular 16:9, 16:10, 4:3 resolution and timing (Support list please refer to appendix).
7. Supports Graphic/ Video mode selection and the latency is between 0.06-0.10 seconds.
8. Supports cloud firmware upgrading when connecting to the router with internet access.
9. Supports Web settings through Ethernet connection and CMS (Central Management System) installed for Win/Mac OS connecting to the L2 Switch incorporated.

1-2. What's in the box

ER01

ET01

Power Cable   USB-A data cable   RX/TX Adapter for IR   Holder X2

Screw X4
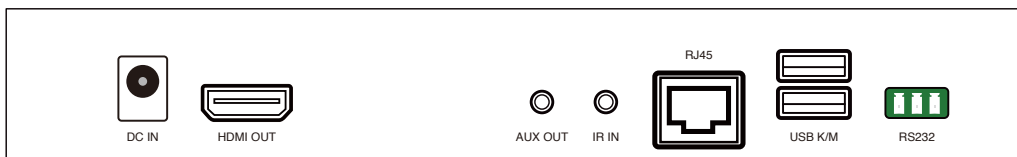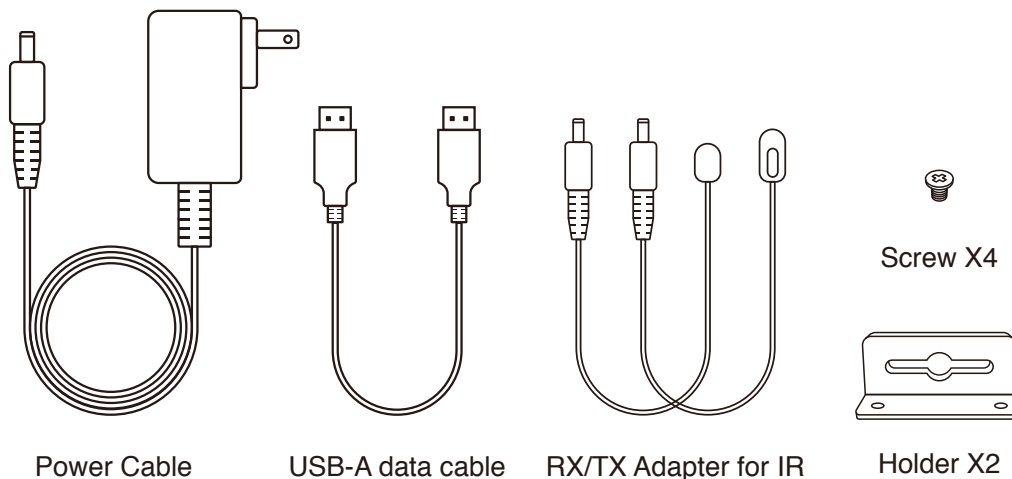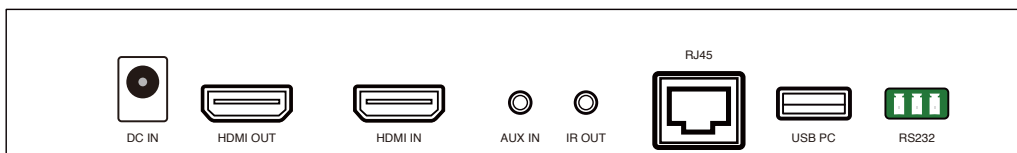
1-3. ER01 Receiver Overview
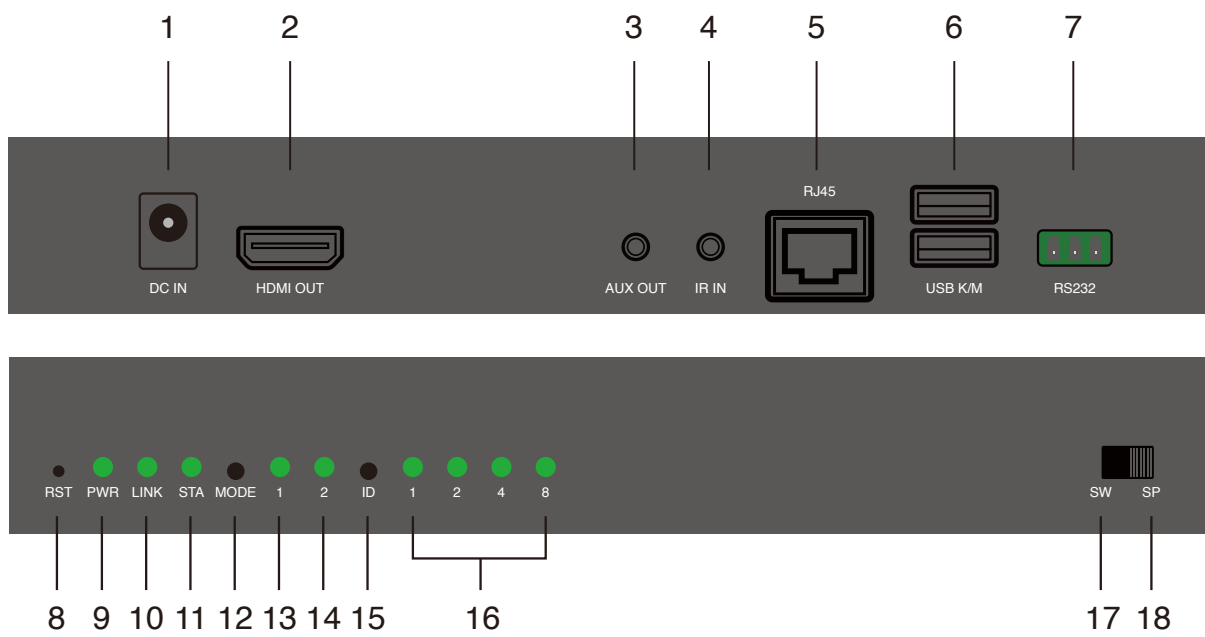
Item	Description
1	Power port.
2	HDMI out.
3	AUX out.
4	IR in.
5	RJ45.
6	USB port for keyboard and mouse.
7	RS232.
8	Reset.
9	Power light.
10	Ethernet light.
11	HDMI light.
12	Mode button.
13	Display mode: Graphic mode (dark)/ Video mode (bright).
14	Channel bit: High bits (bright)/ Low bits (dark).
15	Channel ID button.
16	Channel ID.
17	Switch mode.
18	Splitter mode.

1-4. ET01 Transmitter Overview
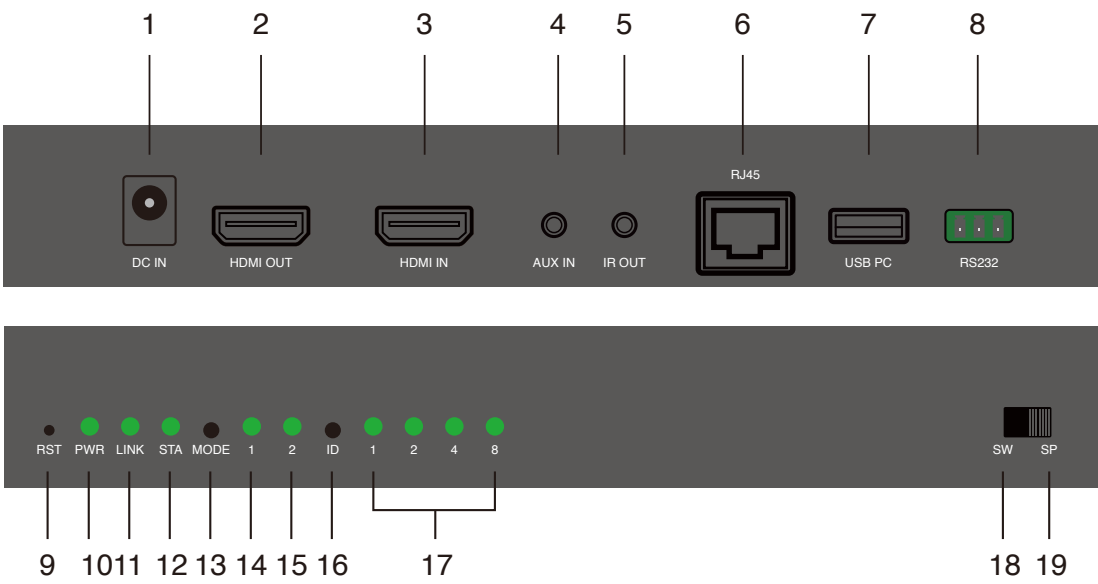
Item	Description
1	Power port.
2	HDMI out for loopback.
3	HDMI in.
4	AUX in.
5	IR out.
6	RJ45.
7	USB port for reverse control.
8	RS232.
9	Reset.
10	Power light.
11	Ethernet light.
12	HDMI light.
13	Mode button.
14	DHCP mode.
15	Channel bit: High bits (dark)/ Low bits (bright).
16	Channel ID button.
17	Channel ID.
18	Switch mode.
19	Splitter mode.

1-5. WR01 Receiver Overview
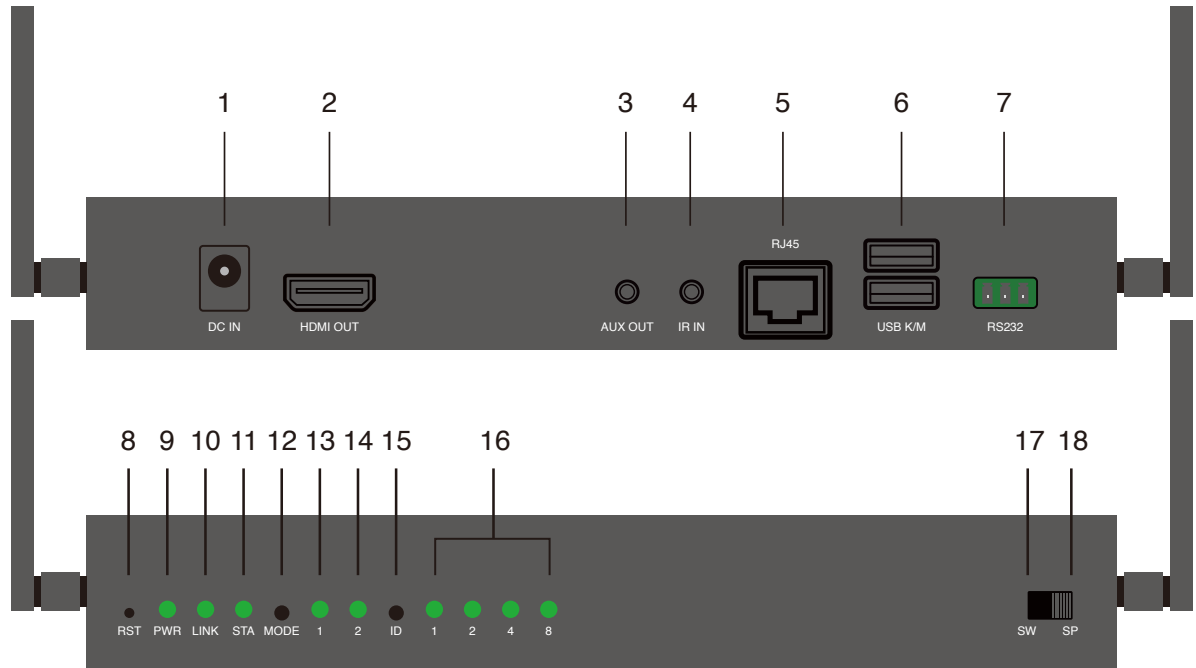
Item	Description
1	Power port.
2	HDMI out.
3	AUX out.
4	IR in.
5	RJ45: Only for specific settings like firmware upgrade and CMS system control.
6	USB port for keyboard and mouse.
7	RS232.
8	Reset.
9	Power light.
10	Ethernet light.
11	HDMI light.
12	Mode button.
13	Display mode: Graphic mode (dark)/ Video mode (bright).
14	Channel bit: High bits (bright)/ Low bits (dark).
15	Channel ID button.
16	Channel ID.
17	Switch mode.
18	Splitter mode.

1-6. WT01 Transmitter Overview
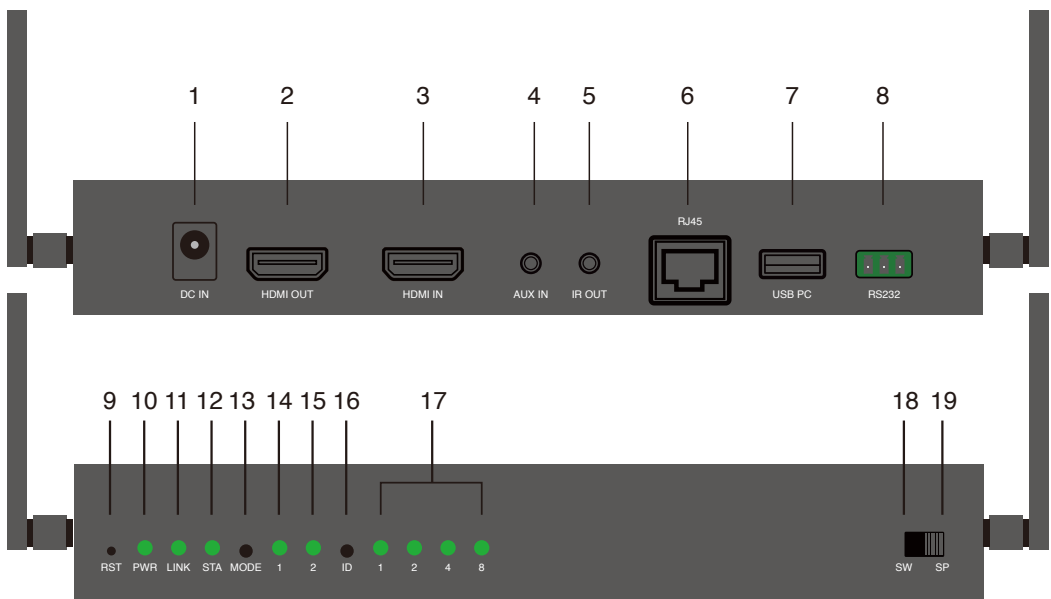
| Item	Description
1	Power port.
2	HDMI out for loopback.
3	HDMI in.
4	AUX in.
5	IR out.
6	RJ45: Only for specific settings like firmware upgrade and CMS system control.
7	USB port for reverse control.
8	RS232.
9	Reset.
10	Power light.
11	Ethernet light.
12	HDMI light.
13	
14	
15	Channel bit: High bits (dark)/ Low bits (bright).
16	Channel ID button.
17	Channel ID.
18	Switch mode.
19	Splitter mode.

2. Hardware Introduction

2-1. ER01
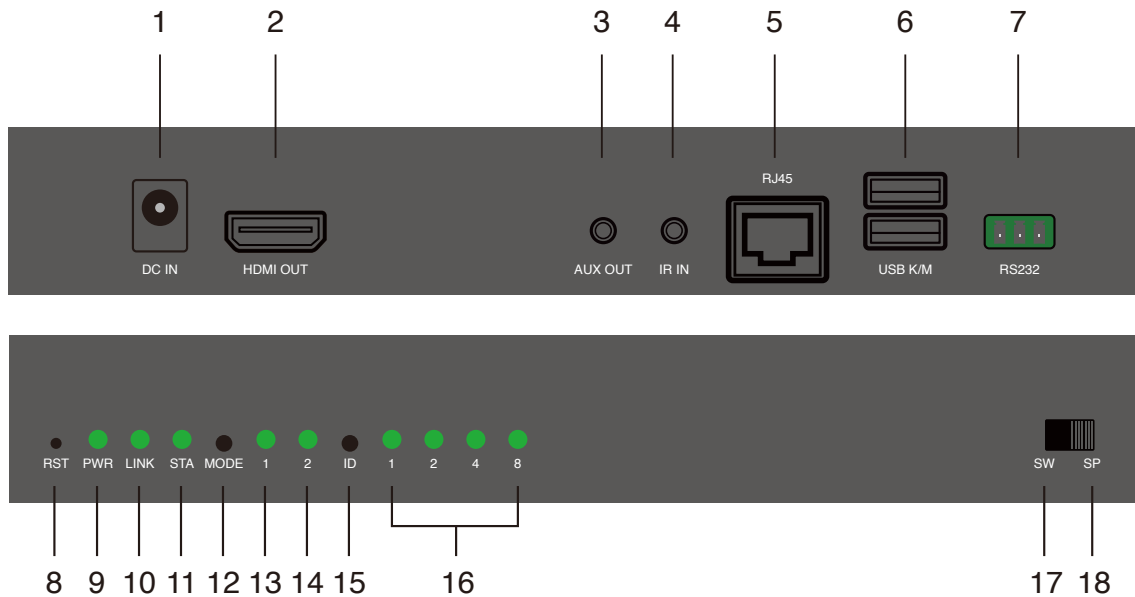
2-1–1. Port

1. DC IN port: 12V/1A power supply is required.
2. HDMI OUT port: Connect to the monitor for display.
3. AUX OUT port: Output audio to the speaker connected. Note that HDMI OUT port receives audio signal simultaneously.
4. IR IN port: Input IR signal for remote control.
5. RJ45 port: Connect to router or switch with LAN cable for bridge.
6. USB K/M: Support external keyboard and mouse connection for remote control.
7. RS232: Input RS232 signal for remote control.

2-1-2. Light signal and button

8. Reset hole: Long press to reset to factory default settings.
9. PWR light: Lighting when power is supplied.
10. LINK light: Flashing when data is transmitting.
11. STA light: Lighting when HDMI cable is connected.
12. MODE button: Click to switch display mode (lighting for mode 1), and long press to optimize the resolution.
13. Mode 1 light (Display mode): Light off indicates graphic mode with shorter latency, and light on indicates video mode with less package lost rate.
14. Mode 2 light (Channel bit): Light on indicates channel adjustment is for high-bit channel, while light off indicates channel adjustment is for low-bit channel.
15. ID button: Click to switch channel ID, and long press to switch between high-bit and low-bit channel adjustment (lighting for mode 2).
16. Channel signal: The channel number is the sum of what the light-on signals represent.
17. Switch mode: Display the screen of ET01 with the same channel ID.
18. Splitter mode: Direct connect to ET01 for 1 to 1 extending display or connect through a switch for 1 to N multicast. No channel ID should be set.
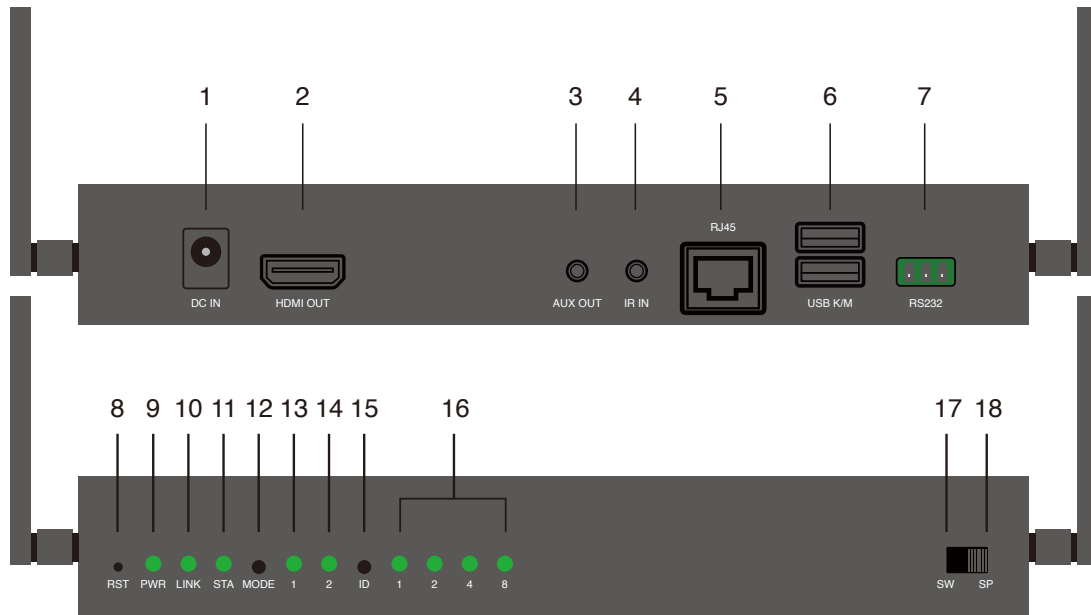
2-2. ET01
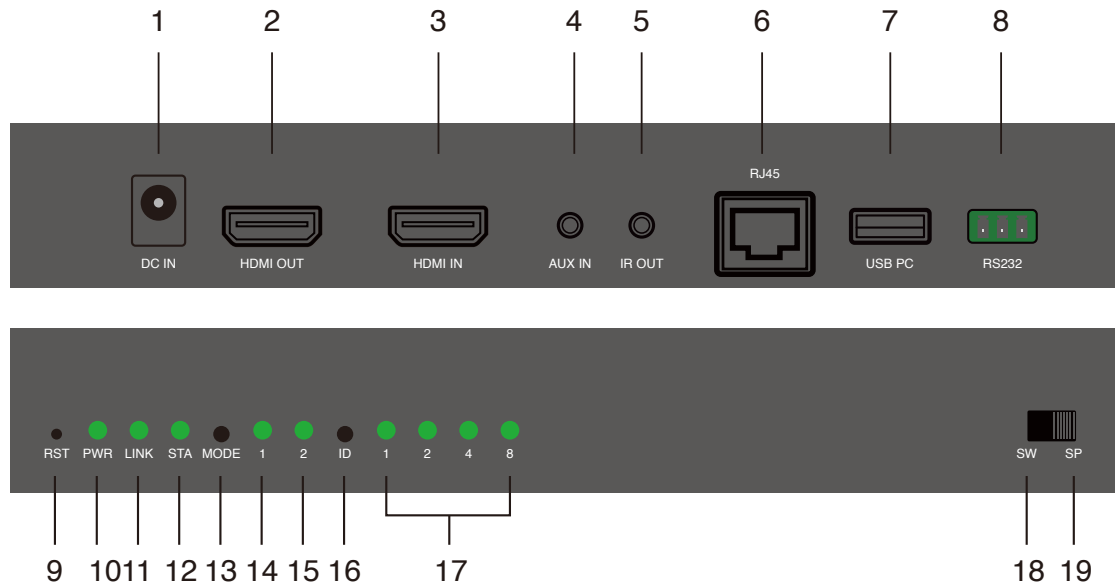
2-2-1. Port

1. DC IN port: 12V/1A power supply is required.
2. HDMI OUT port: Connect to the monitor for loopback.
3. HDMI IN port: Connect to your device (laptop or computer).
4. AUX IN port: Input audio to replace that from HDMI source.
5. IR OUT port: Output IR signal for remote control.
6. RJ45 port: Connect to router or switch with LAN cable for bridge.
7. USB PC: Connect to your computer to receive reverse control signals.
8. RS232: Output RS232 signal for remote control.

2-2-2. Light signal and button

9. Reset hole: Long press to reset to factory default settings.
10. PWR light: Lighting when power is supplied.
11. LINK light: Lighting when Ethernet is connected.
12. STA light: Flashing when data is transmitting.
13. MODE button: Click to enable DHCP mode (lighting for mode 1).
14. Mode 1 light (DHCP mode): Solid light indicates DHCP service is turned on for checking, while flashing light indicates the ET01 is running DHCP service.
Please enable DHCP after LAN cable is connected to switch without DHCP embedded. It is possible to turn on DHCP checking service on multiple ET01 at the same time, but only the one with stronger MAC ADDR hosts the DHCP.
15. Mode 2 light (Channel bit): Light on indicates channel adjustment is for high-bit channel, while light off indicates channel adjustment is for low-bit channel.
16. ID button: Click to switch channel ID, and long press to switch between high-bit and low-bit channel adjustment (lighting for mode 2).
17. Channel signal: The channel number is the sum of what the light-on signals represent.
18. Switch mode: Display the screen to ER01 with the same channel ID.
19. Splitter mode: Direct connect to ER01 for 1 to 1 extending display or connect through a switch for 1 to N multicast. No channel ID should be set.
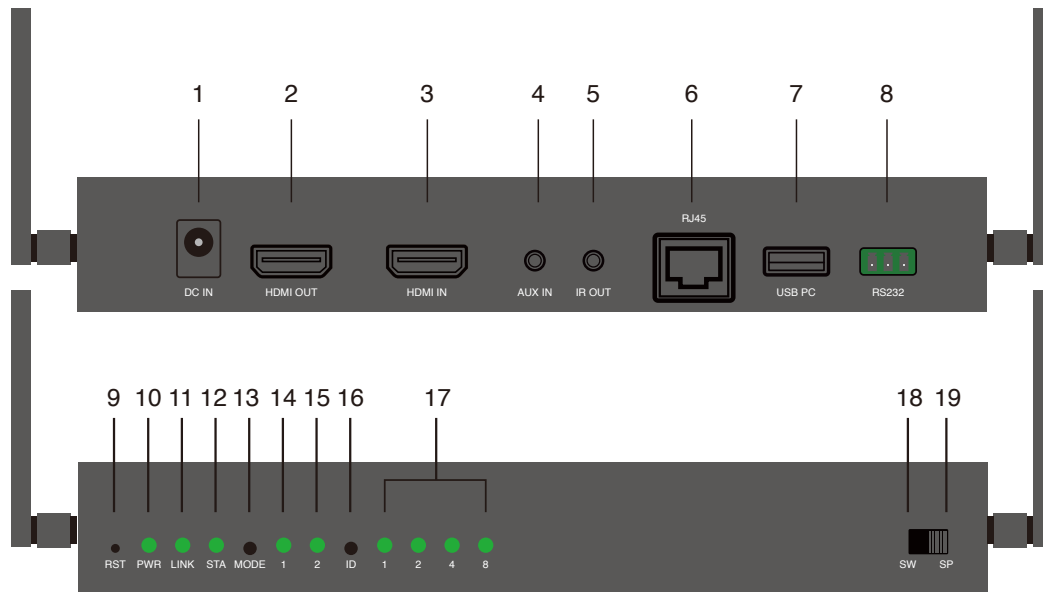
2-3. WR01

2-3–1. Port

1. DC IN port: 12V/1A power supply is required.
2. HDMI OUT port: Connect to the monitor for display.
3. AUX OUT port: Output audio to the speaker connected. Note that HDMI OUT port receives audio signal simultaneously.
4. IR IN port: Input IR signal for remote control.
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2-3–2. Light signal and button

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14. Mode 2 light (Channel bit): Light on indicates channel adjustment is for high-bit channel, while light off indicates channel adjustment is for low-bit channel.
15. ID button: Click to switch channel ID, and long press to switch between high-bit and low-bit channel adjustment (lighting for mode 2).
16. Channel signal: The channel number is the sum of what the light-on signals represent.
17. Switch mode: Display the screen of WT01 with the same channel ID.
18. Splitter mode: Direct connection to WT01 for 1 to 1 extending display or 1 to N multicast. No channel ID should be set.

2-4. WT01

2-4–1. Port

    1. DC IN port: 12V/1A power supply is required.
    2. HDMI OUT port: Connect to the monitor for loopback.
    3. HDMI IN port: Connect to your device (laptop or computer).
    4. AUX IN port: Input audio to replace that from HDMI source.
    5. IR OUT port: Output IR signal for remote control.
    6. RJ45 port: Connect to router or switch with LAN cable for bridge. Only for specific settings like firmware upgrade and CMS system control.
    7. USB PC: Connect to your computer to receive reverse control signals.
    8. RS232: Output RS232 signal for remote control.

2-4–2. Light signal and button

    9. Reset hole: Long press to reset to factory default settings.
    10. PWR light: Lighting when power is supplied.
    11. LINK light: Lighting when Ethernet is connected.
    12. STA light: Flashing when data is transmitting.
    15. Mode 2 light (Channel bit): Light on indicates channel adjustment is for high-bit channel, while light off indicates channel adjustment is for low-bit channel.
    16. ID button: Click to switch channel ID, and long press to switch between high-bit and low-bit channel adjustment (lighting for mode 2).
    17. Channel signal: The channel number is the sum of what the light-on signals represent.
    18. Switch mode: Display the screen to WR01 with the same channel ID.
    19. Splitter mode: Direct connection to WR01 for 1 to 1 extending display or 1 to N multicast. No channel ID should be set.

* Channel adjustment

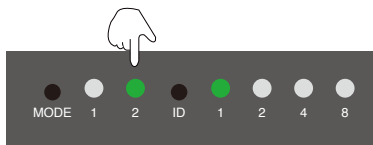**- Low-bit channel 1-15:** Click ID button to switch channel from 1 to 15.
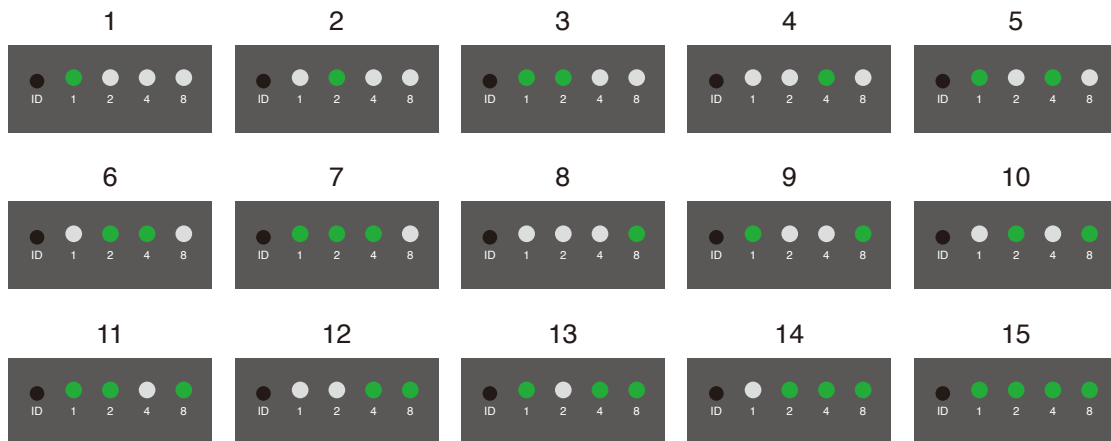
- Advanced section for more channels

In complex circumstances that 15 low-bit channels are not enough, with high-bit channel adjustment, up to 255 channels are provided. The channel ID more than 15 is "high bits * 16 + low bits".
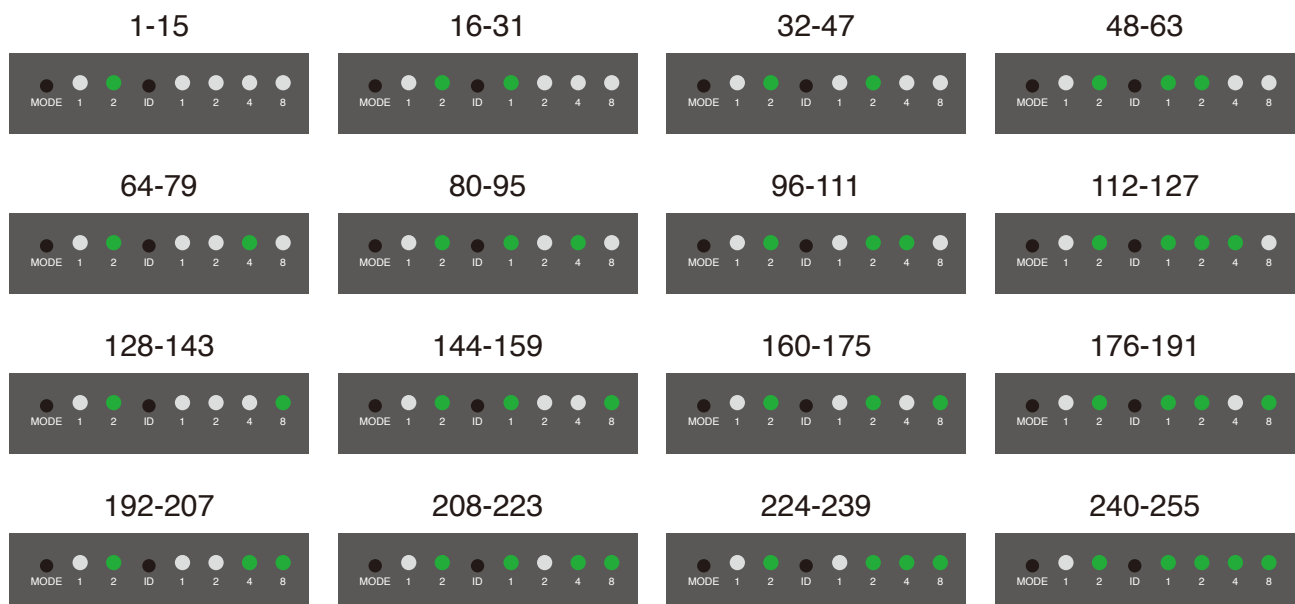
1. High-bit channel adjustment
(1) Long press ID button to light on Mode 2 signal for adjusting high-bit channel.
(2) Click ID button to change high-bit channel, which defines the adjustment range of low-bit signals.
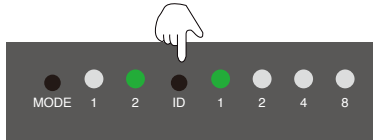
High-bit adjustment

High-bit signals define the adjustment range of low-bit signals

2. Example for channel 16-32:
(1) Long press ID button to light on Mode 2 signal to adjust high-bit channel.
(2) Click ID button to 1. High-bit channel 1 defines the low-bit channel adjustment starting from channel 16 (high bits * 16). (High-bit channel 2 defines low-bit channel adjustment starting from 32. So as high-bit channel 3-15 adjust low-bit channel from 46-255.)
(3) Long press ID button again to switch back to low-bit adjustment.
(4) Click ID button to switch channel from 16-32.

To start low-bit channel from 16-31, switch to high-bit adjustment and press ID button to 1.

Switch back to low-bit adjustment and change channel ID by ID button
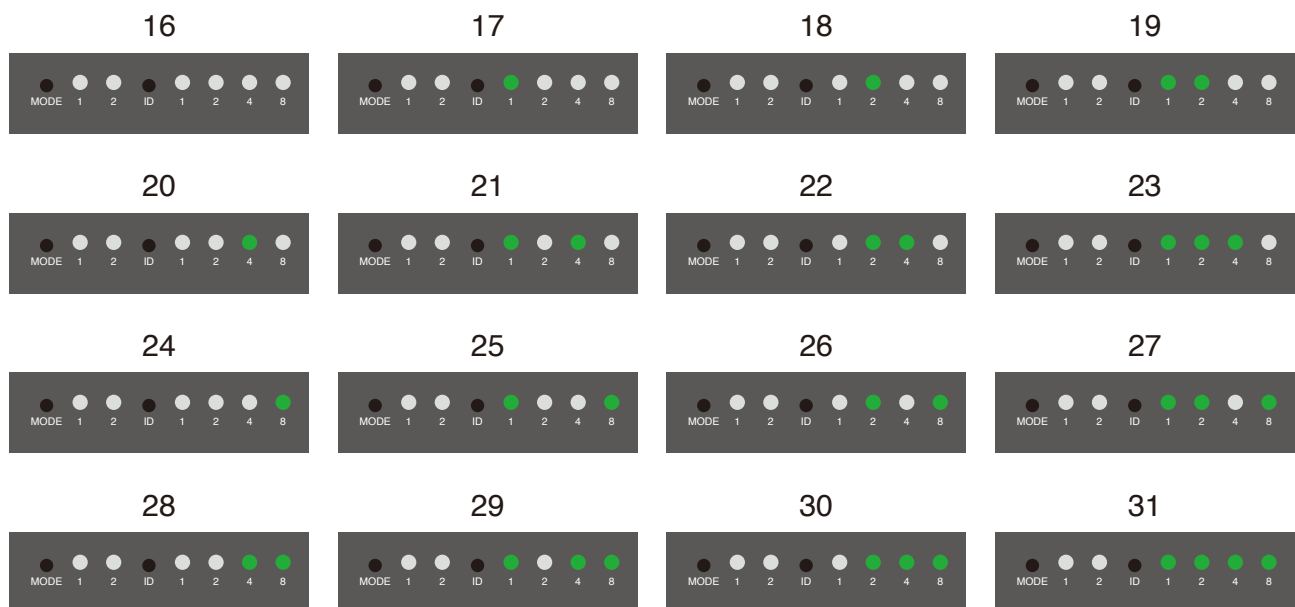
Note: Only channel 1-15 are adjustable when high-bit channel is 0, not allowing the adjustment of high-bit channel 0 and low-bit channel 0 simultaneously.

*RS232 definition
Three pins of RS232 port from left to right are TX, Ground, and RX respectively.

TX GND RX

3. Hardware Installation

3-1. Installation for ER01/ ET01

3-1-1. Splitter Mode Display (1 to 1):

1. Position the toggle switch to Splitter Mode on both ER01 and ET01.
2. Connect power to 12V/1A and a monitor to display output on ER01.
3. Connect power to 12V/1A, a monitor for loopback, and a device to input on ET01.
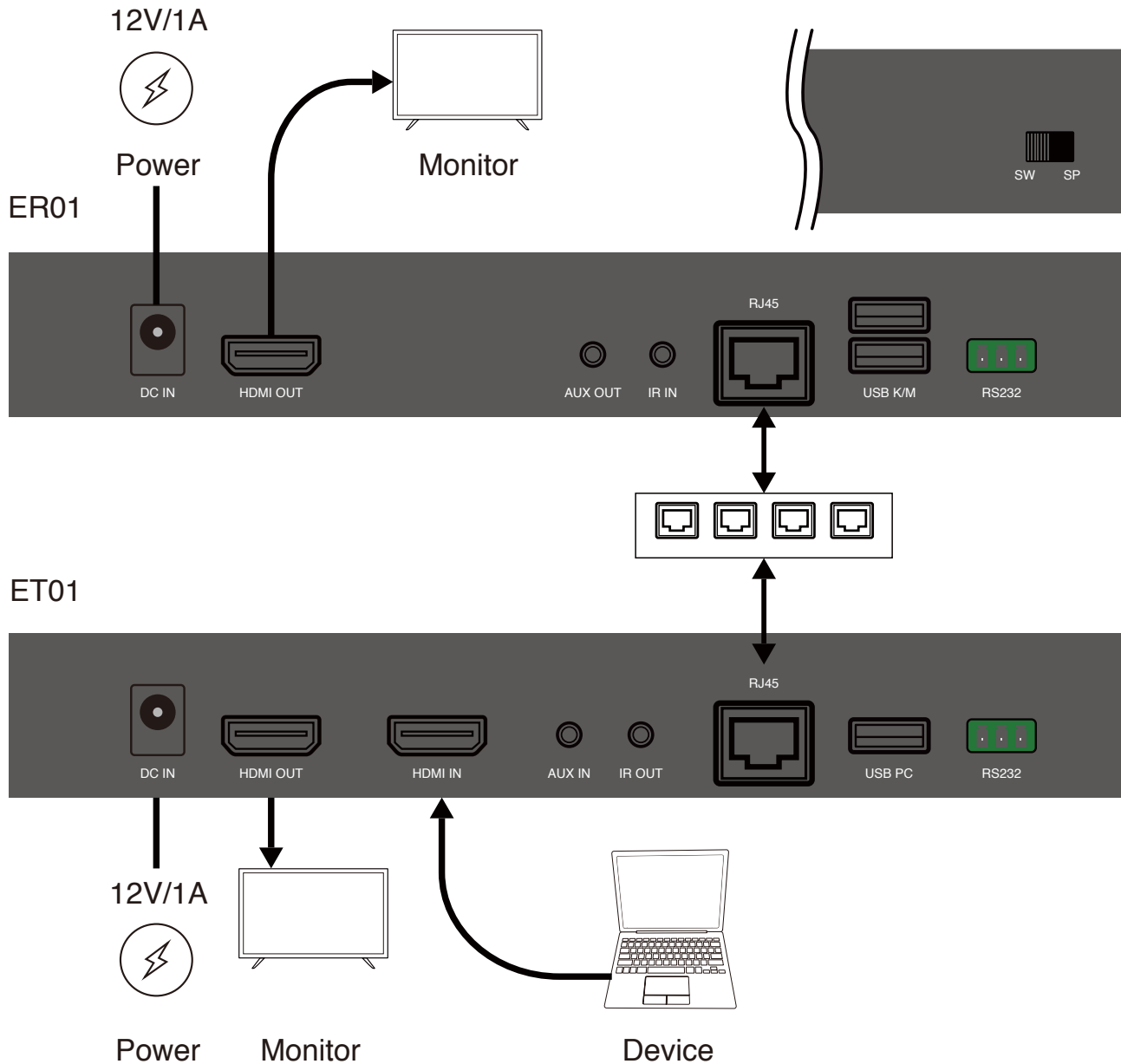4. Connect ER01 and ET01 with an Ethernet cable.
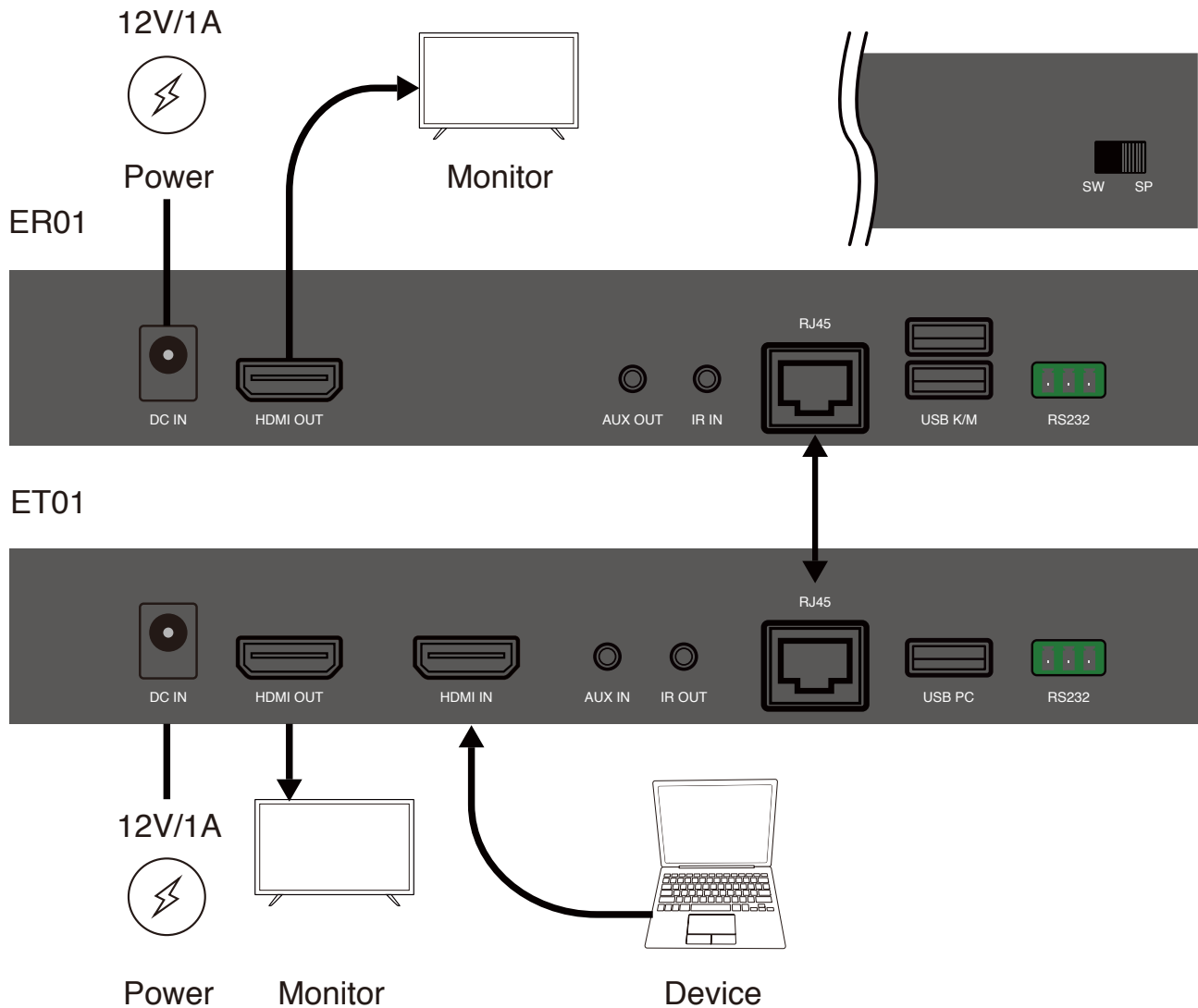
* Troubleshooting guide: If there's no signal on the monitor connected to ER01, please make sure ER01 and ET01 are both switched to Splitter mode.

3-1-2. Installation for Switch Mode Display (M to N):

1. Position the toggle switch to Switch Mode on both ER01 and ET01.
2. Connect power to 12V/1A and a monitor to display output on ER01.
3. Connect power to 12V/1A, a monitor for loopback, and a device to input on ET01.
4. Connect ER01 and ET01 to a switch with Ethernet cables.
5. Set ER01 and ET01 to the same channel ID.
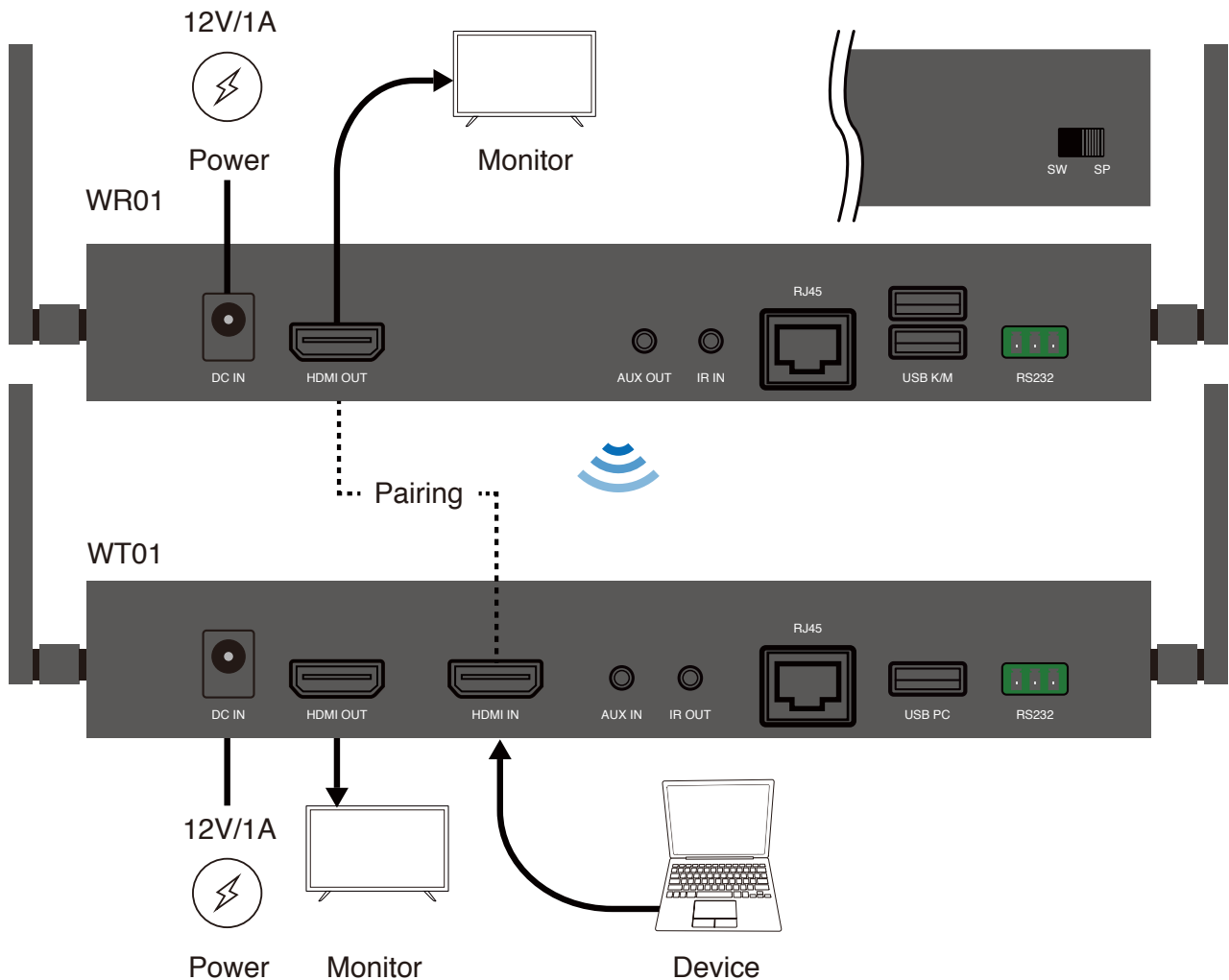* Note: Every ET01 under the same network should be set to different channel ID.

* Troubleshooting guide: If there's no signal on the monitor connected to ER01, please make sure ER01 and ET01 (1) are both switched to Switch Mode and (2) are set to the same channel ID.

3-2. Installation for WR01/ WT01

3-2-1. Splitter Mode Display (1 to 1):

1. Position the toggle switch to Splitter Mode on both WR01 and WT01.
2. Connect power to 12V/1A and a monitor to display output on WR01.
3. Connect WR01 and WT01 by the HDMI cable to pair. The STA signals keep flashing until pairing completed.
4. After pairing, connect power to 12V/1A, a monitor for loopback, and a device to input on WT01.

* **Troubleshooting guide:** If there's no signal on the monitor connected to WR01, please make sure WR01 and WT01 (1) are both switched to Splitter mode and (2) have been paired together.

3-2-2. Switch Mode Display (1 to N, N to 1):

1. Position the toggle switch to Switch Mode on both WR01 and WT01.
2. Connect power to 12V/1A and a monitor to display output on WR01.
3. Connect WR01 and WT01 by the HDMI cable to pair. The STA signals keep flashing until pairing completed.
4. After pairing, connect power to 12V/1A, a monitor for loopback, and a device to input on WT01.
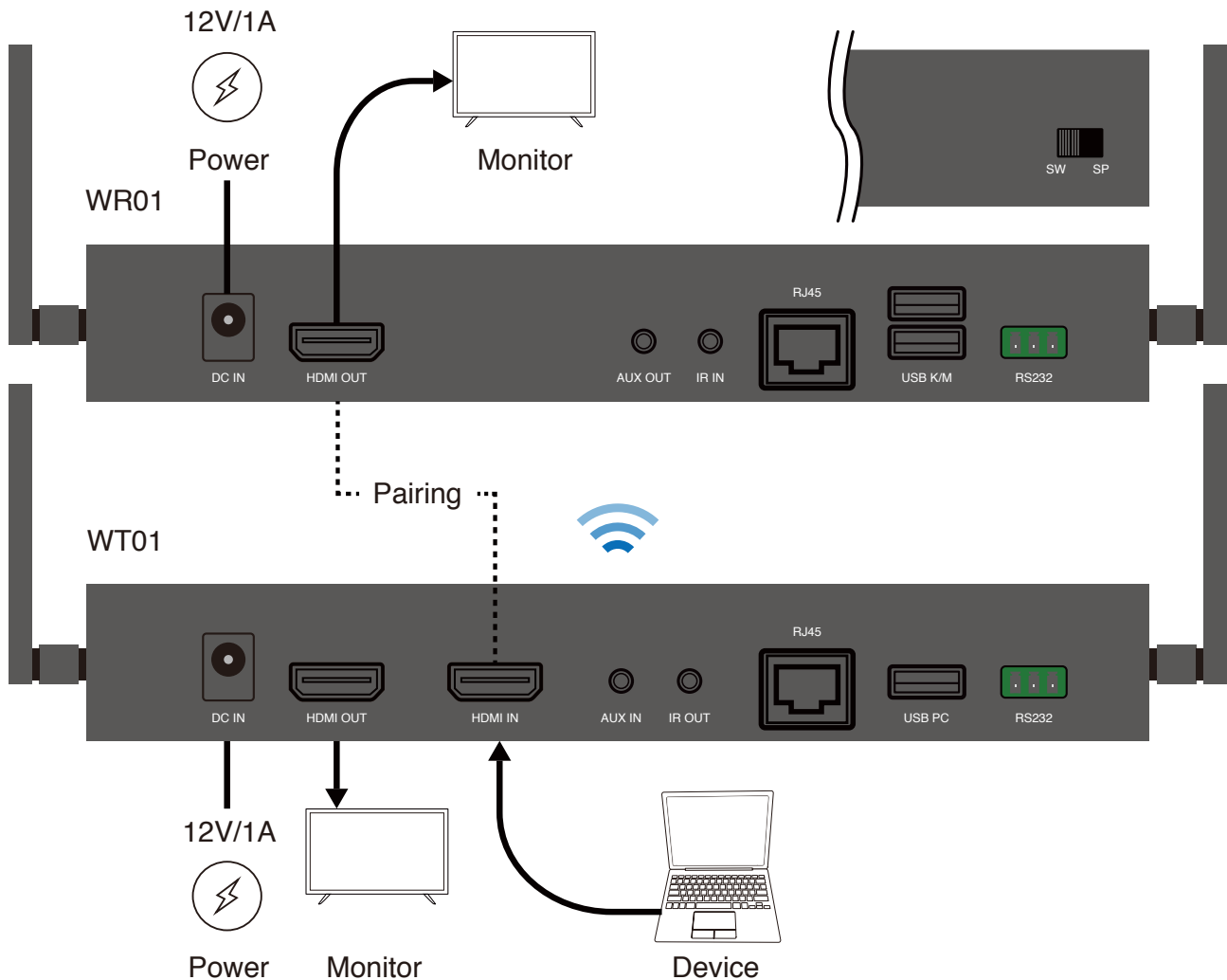5. Set WR01 and WT01 to the same channel ID.
* Note: Every WT01 under the same network should be set to different channel ID.

12V/1A

Power

Monitor

SW   SP

WR01

DC IN   HDMI OUT   AUX OUT   IR IN   RJ45   USB K/M   RS232

Pairing

WT01

DC IN   HDMI OUT   HDMI IN   AUX IN   IR OUT   RJ45   USB PC   RS232

12V/1A

Power   Monitor   Device

 * Troubleshooting guide: If there's no signal on the monitor connected to WR01, please make sure WR01 and WT01 (1) are both switched to Switch Mode, (2) have been paired together, and (3) are set to the same channel ID.

3-3. Installation of Remote Control

Three methods for remote control are supported: IR control, USB Keyboard/ Mouse control, and RS232 connection. The connection examples below are only for the remote control function, please arrange other display kits depending on your needs.

3-3-1. IR control:
Equip IR adapter on receiver and transmitter to control the device connected to ET01/ WT01 from ER01/ WR01. The receiver is for IR input and the transmitter is for IR output.
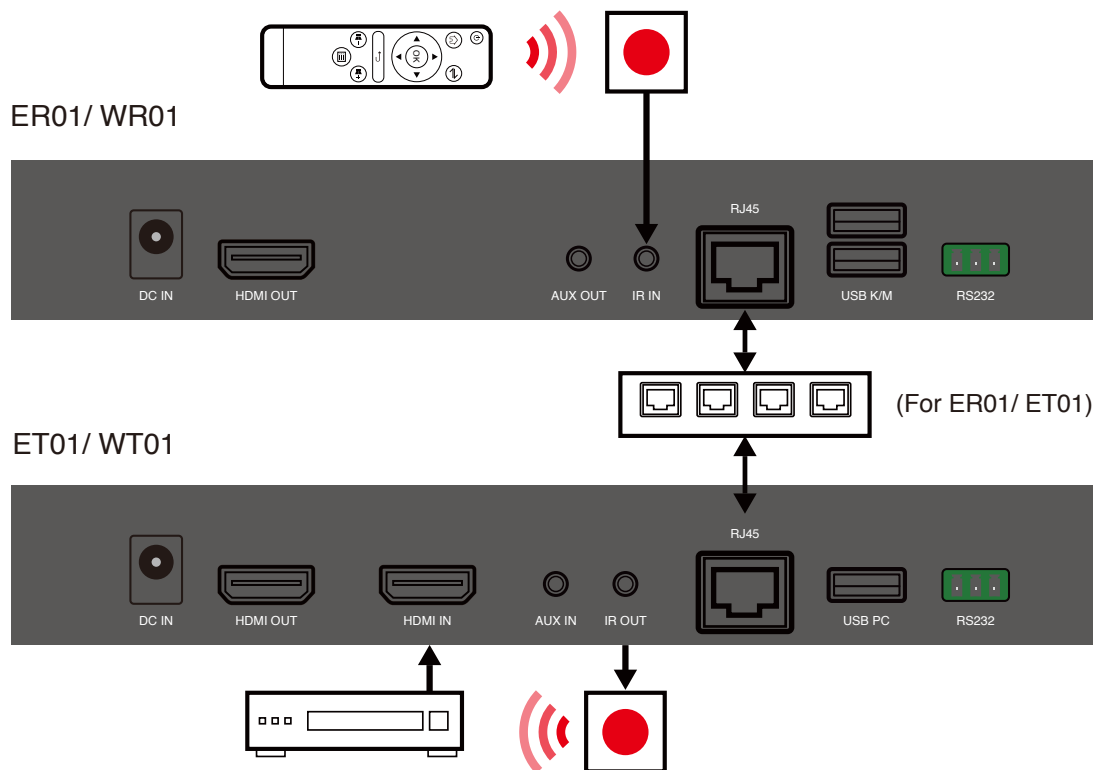
3-3-2. USB Keyboard/ Mouse control:

Connect keyboard/ mouse to ER01/ WR01 to reverse control the computer connected to ET01/ WT01 via USB cable. The receiver is for keyboard/ mouse input and the transmitter is for PC reverse control output.
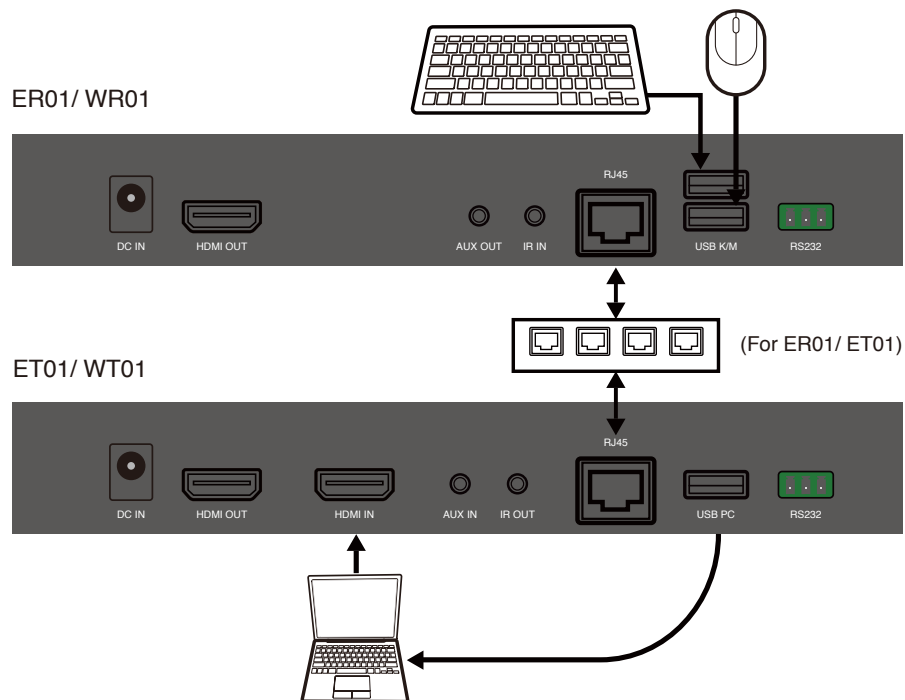

3–3-3. RS232 connection:

RS232 port allows both input and output signal transition, which makes it possible to monitor and to remote control from the receiver or from the transmitter. The example below is to remote the projector connected to receiver from the transmitter via RS232.
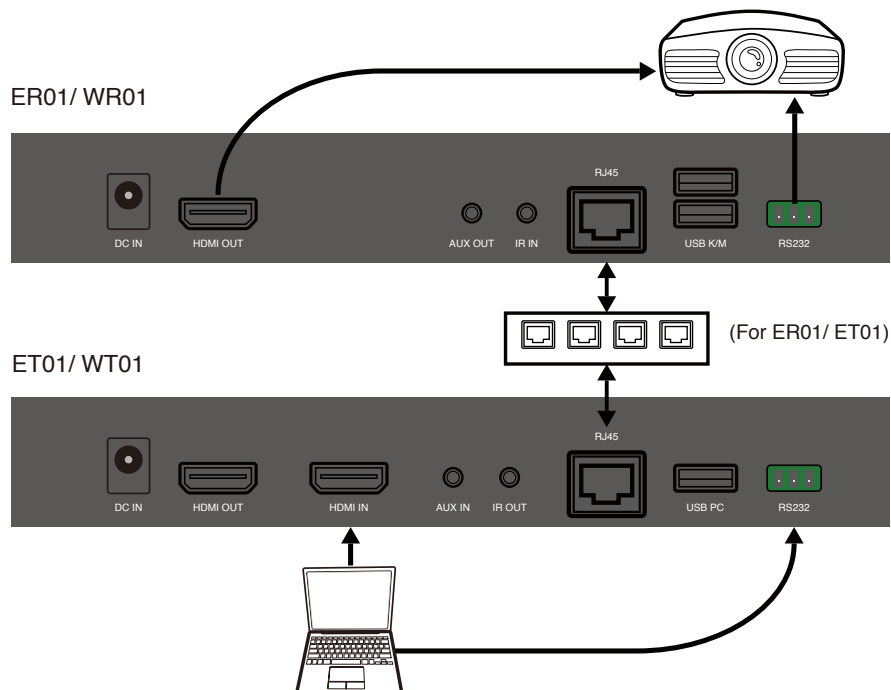
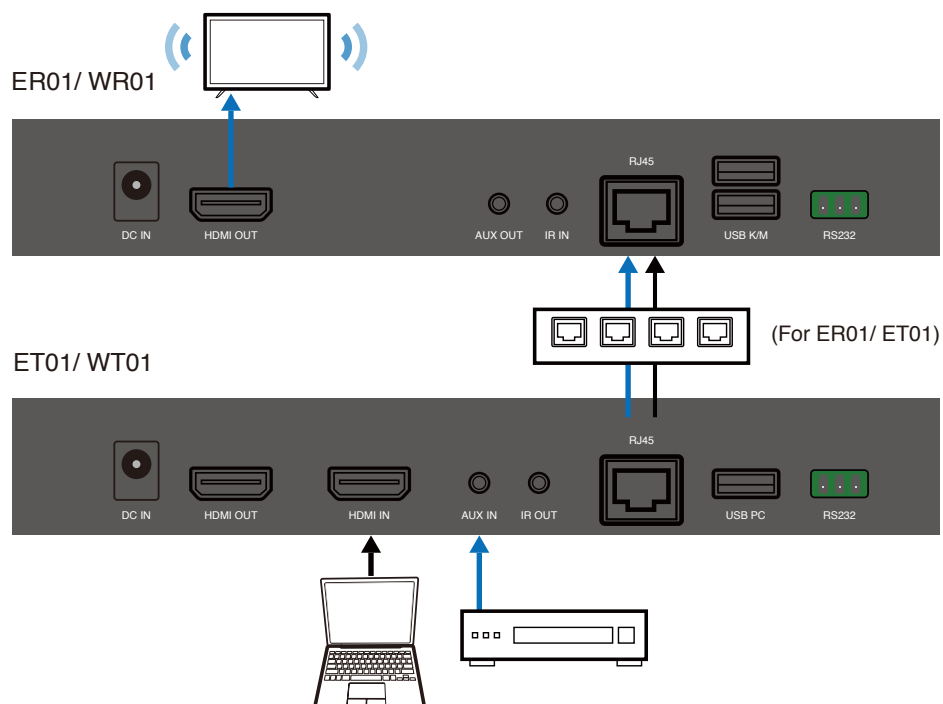# 3-4. Installation of Audio Input and Output

3-4-1. HDMI input and HDMI output
Input an audio source from HDMI port of the transmitter and output to HDMI port of the receiver.
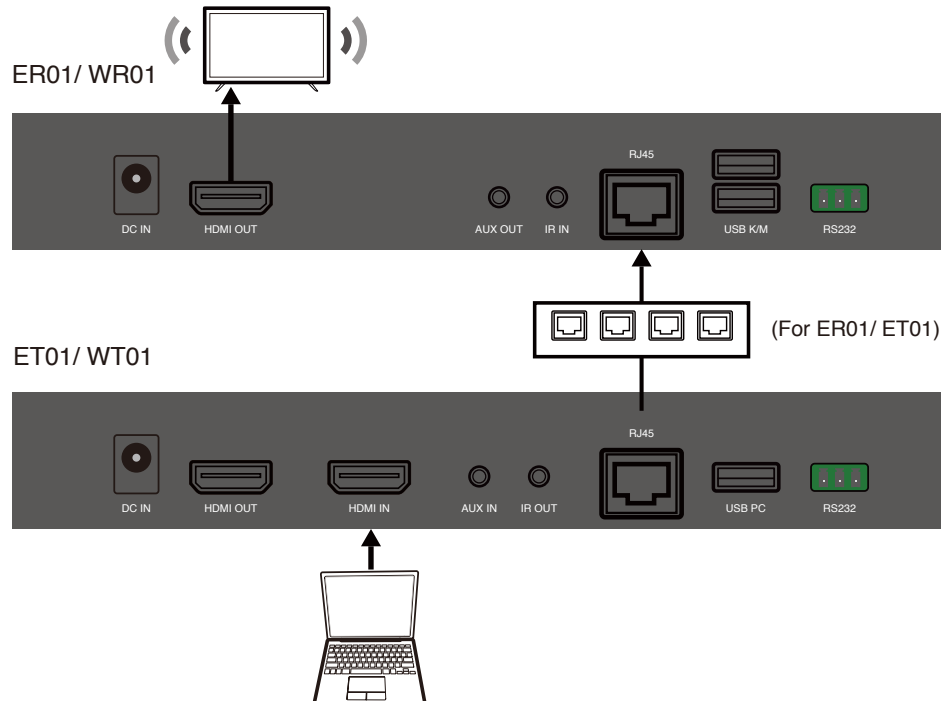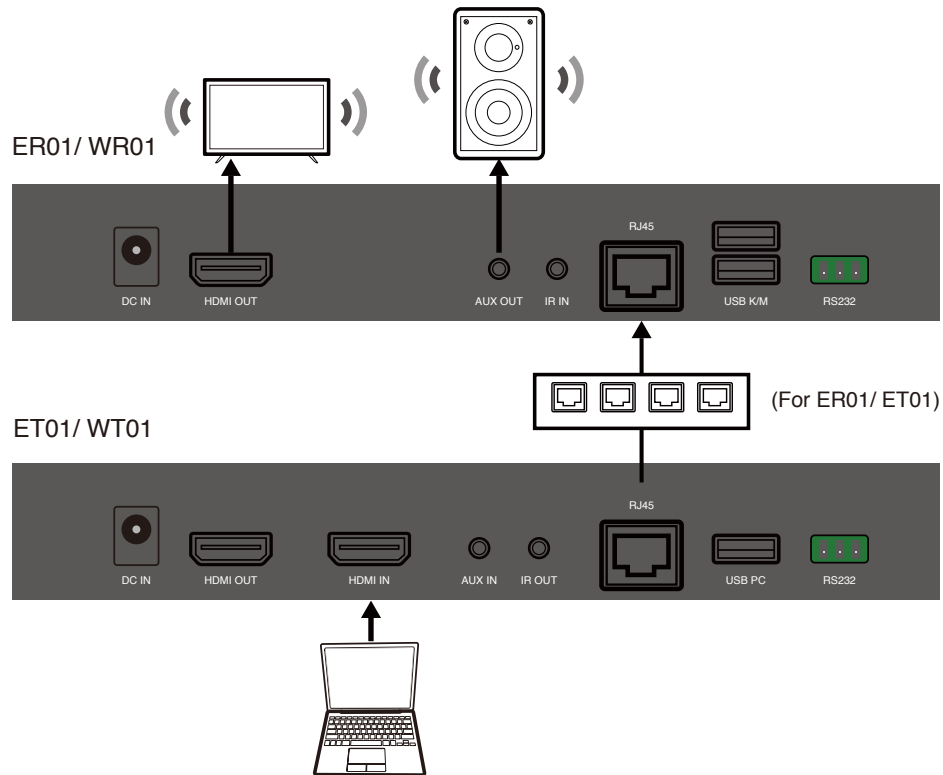

3-4-2. AUX input and HDMI output
Input audio sources from both HDMI and AUX port of the transmitter, but only that of AUX port output to the receiver.

3-4-3. HDMI input and HDMI/ AUX output

Input an audio source from HDMI port of the transmitter and output from both HDMI and AUX port of the receiver when both ports are connected to the speakers.

3-4-4. HDMI/ AUX input and HDMI/ AUX output

When inputting audio sources from both HDMI and AUX port of the transmitter and connecting output devices from both HDMI and AUX port of the receiver, only the audio from AUX input of the transmitter will output to both HDMI and AUX port of the receiver.
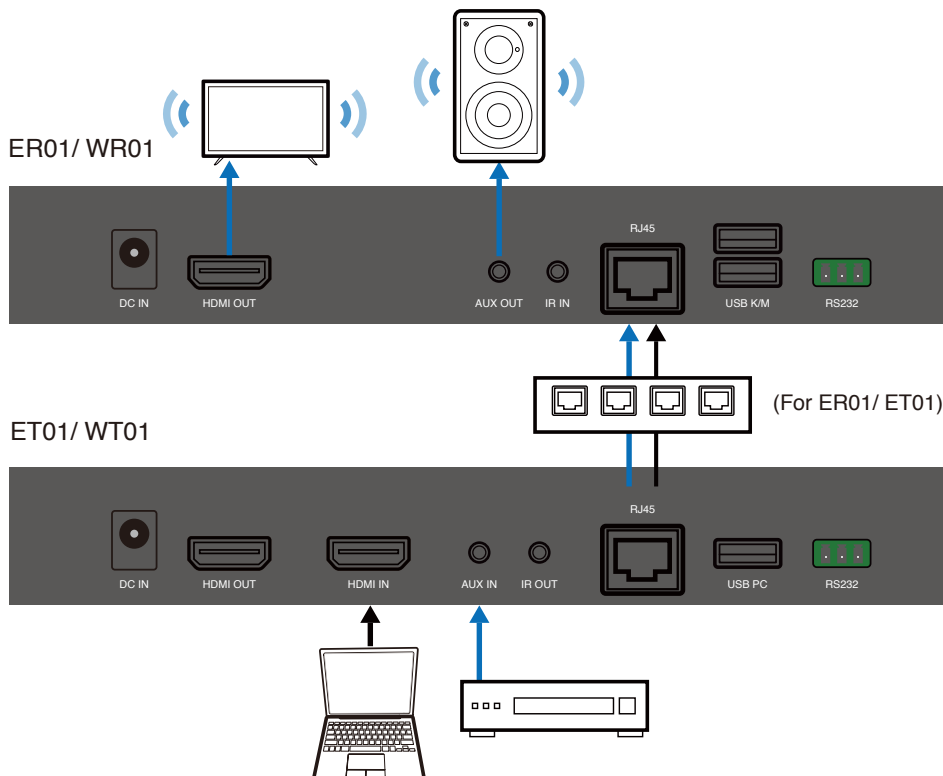
3-4-5. HDMI input and AUX output
Input an audio from HDMI port of the transmitter and output to AUX port of the receiver.

ER01/ WR01

DC IN   HDMI OUT   AUX OUT   IR IN   RJ45   USB K/M   RS232

(For ER01/ ET01)

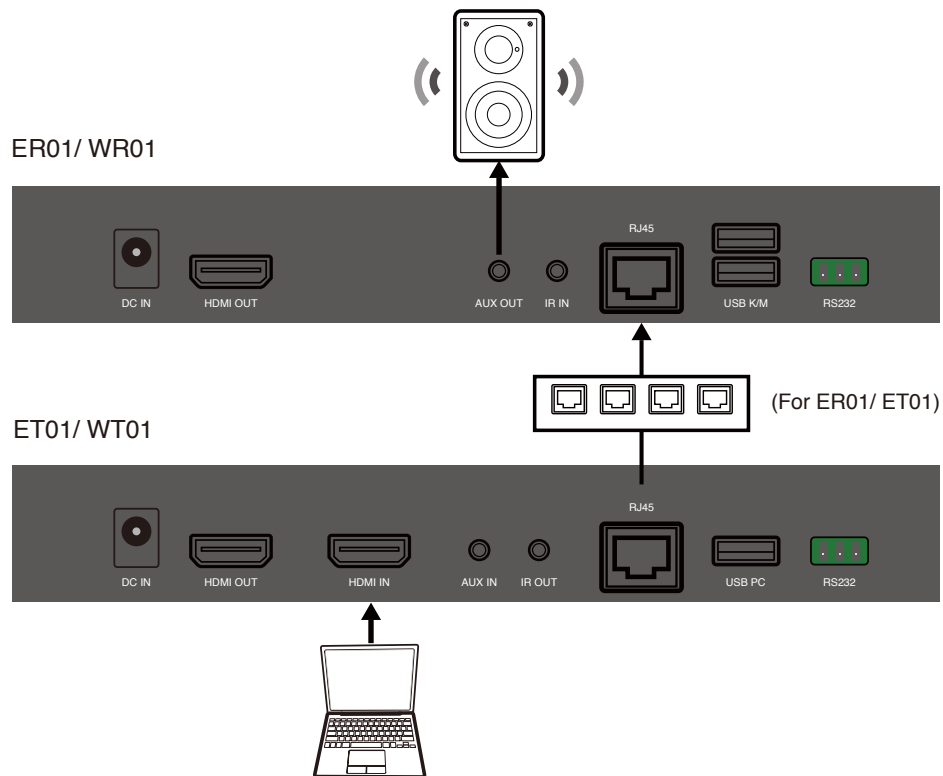ET01/ WT01

DC IN   HDMI OUT   HDMI IN   AUX IN   IR OUT   RJ45   USB PC   RS232

3-4-6. AUX input and AUX output
Input an audio from AUX port of the transmitter and output to AUX port of the receiver.

ER01/ WR01

DC IN   HDMI OUT   AUX OUT   IR IN   RJ45   USB K/M   RS232

(For ER01/ ET01)

ET01/ WT01

DC IN   HDMI OUT   HDMI IN   AUX IN   IR OUT   RJ45   USB PC   RS232
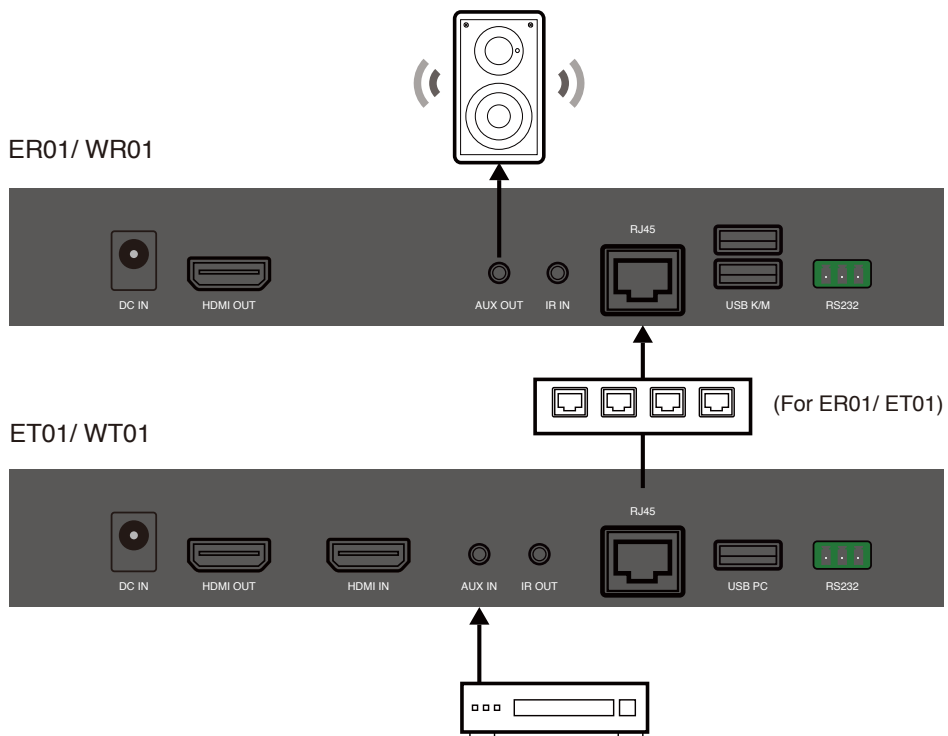
4.Configuration Examples

4-1. HDMI over Ethernet (ER01/ ET01)
4-1-1. Extender (1 to 1)
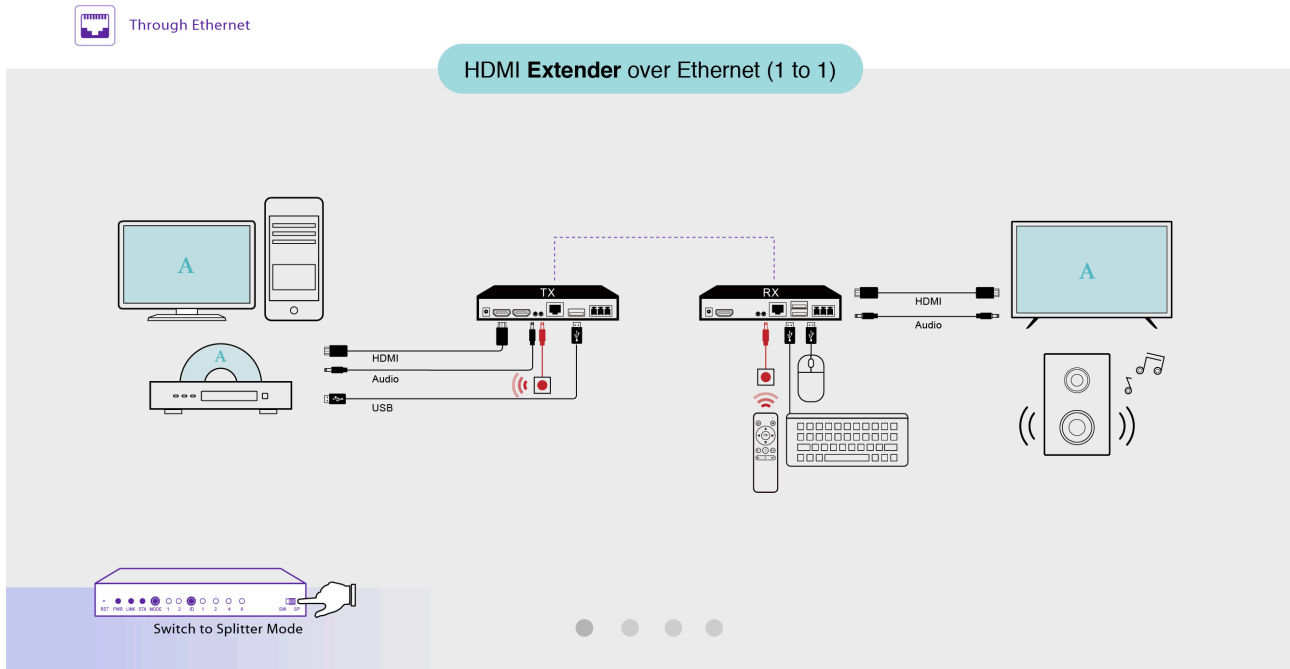
4-1-2. Splitter (1 to N)
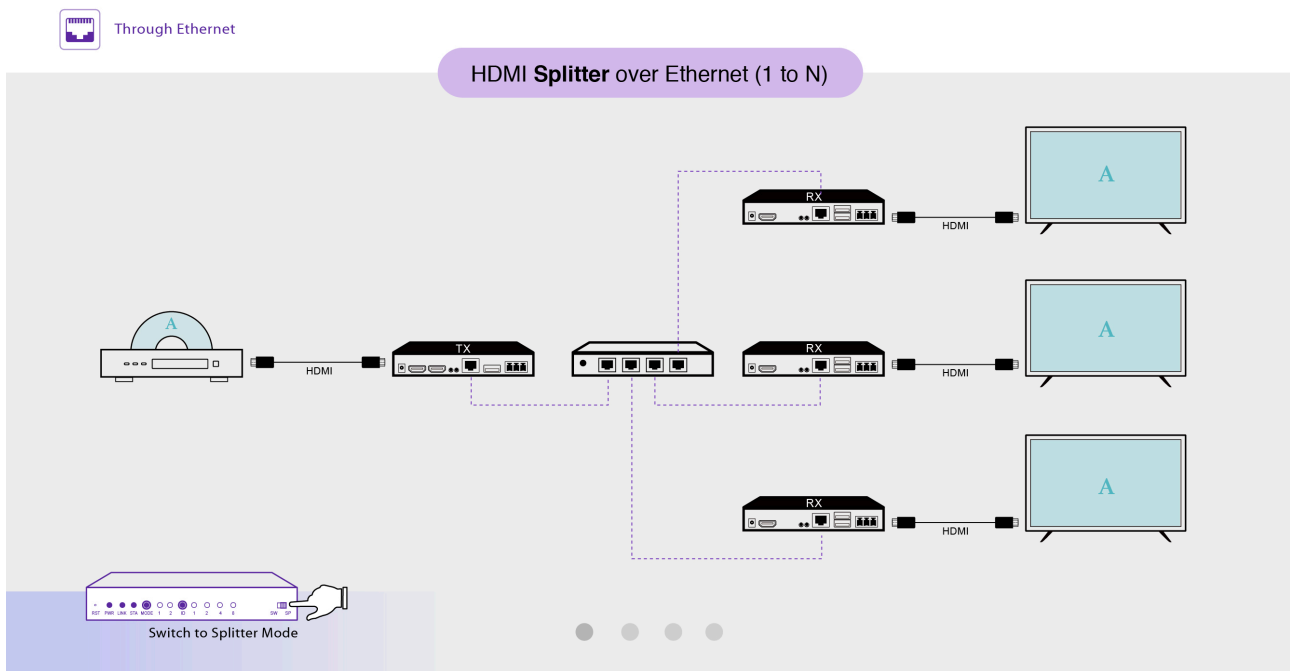
4-1-3. Switcher (N to 1)

Through Ethernet

HDMI KVM **Switch** over Ethernet (1 to 1, N to 1)

Press ID Button to Switch   Switch to switch mode
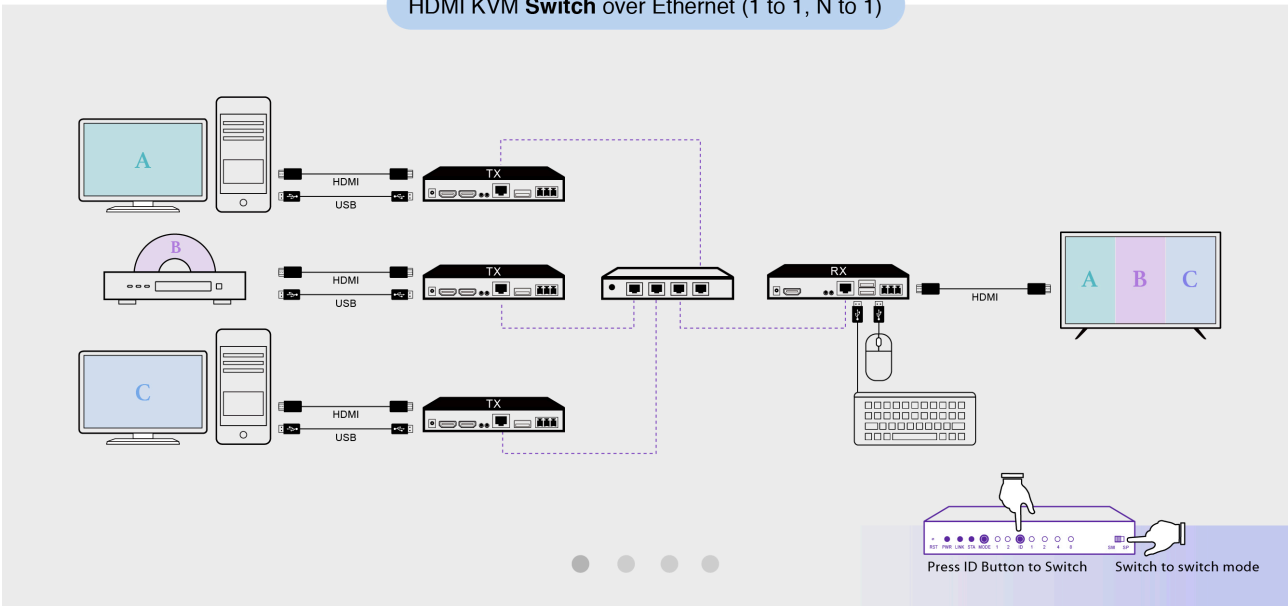
4-1-4. Matrix (M to N)

Through Ethernet

HDMI **Matrix** over Ethernet (M to N)

Press ID Button to Switch   Switch to switch mode
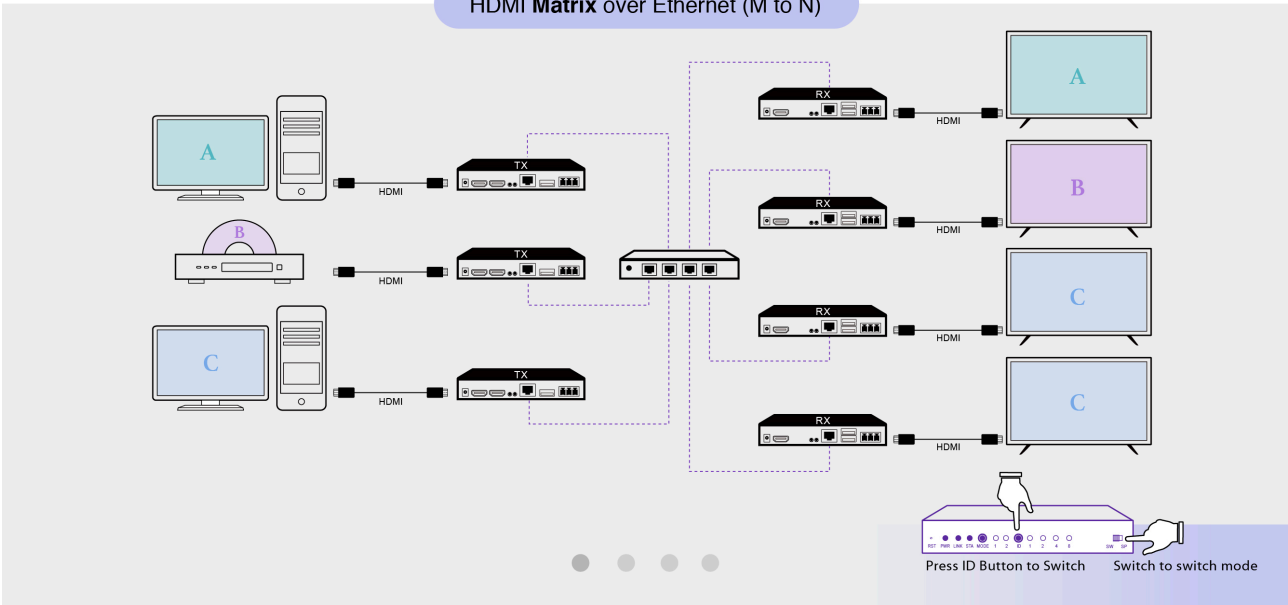
4-2. HDMI over Wi-Fi (WR01/ WT01)
4-2-1. Extender (1 to 1)

Through Wi-Fi

HDMI **Extender** over WiFi (1 to 1)

A

A

TX

RX

200M

HDMI

Audio

USB

HDMI

Audio

Switch to Splitter Mode

4-2-2. Splitter (1 to N)

Through Wi-Fi

HDMI **Splitter** over WiFi (1 to N)

RX

A

HDMI

A

TX

RX

A

HDMI

HDMI

RX

A

HDMI

Switch to Splitter Mode
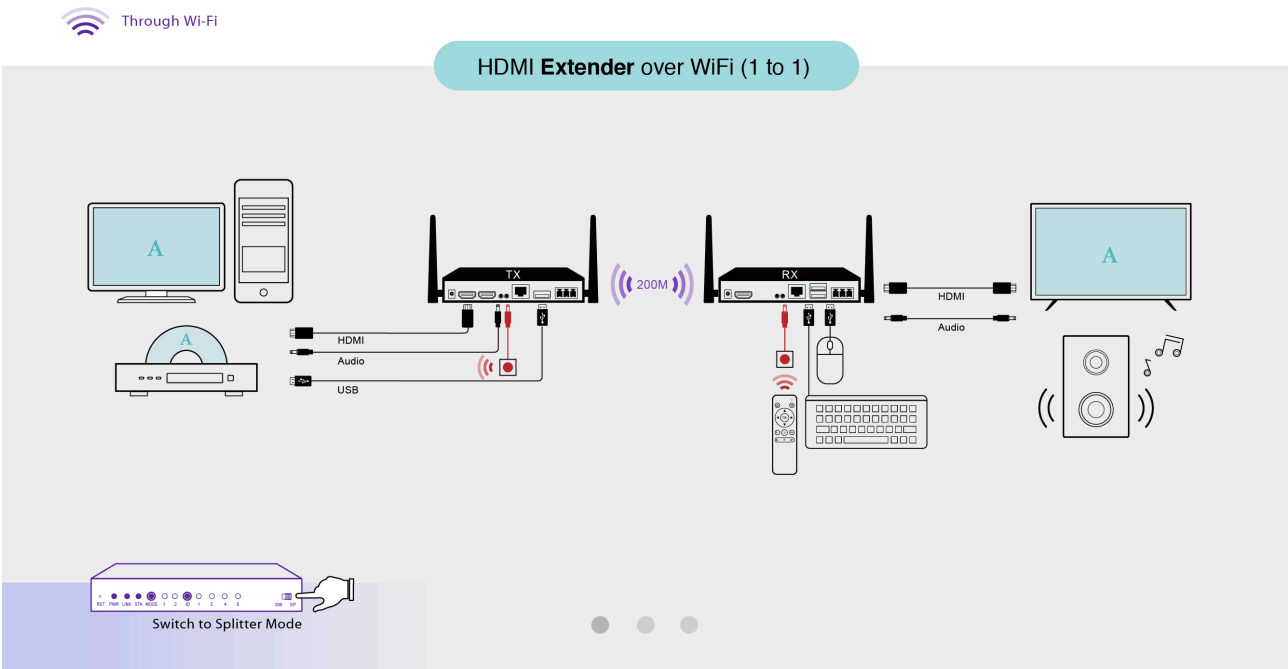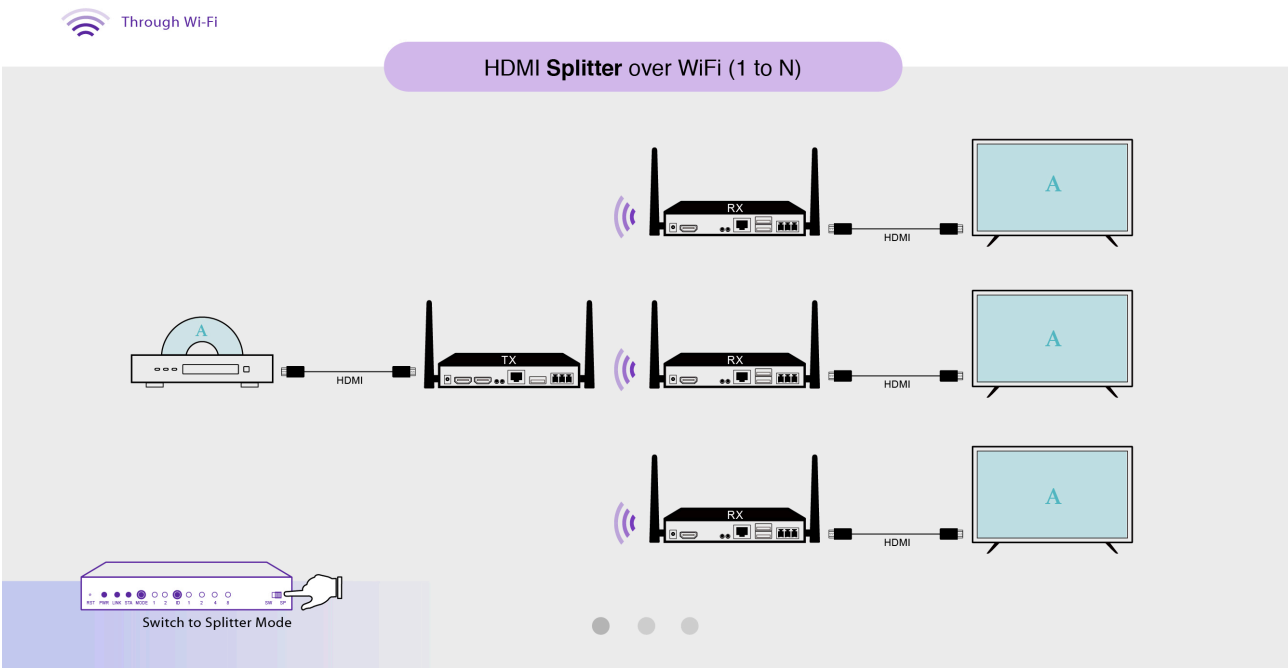
4-2-3. Switcher (1 to 1, N to 1)
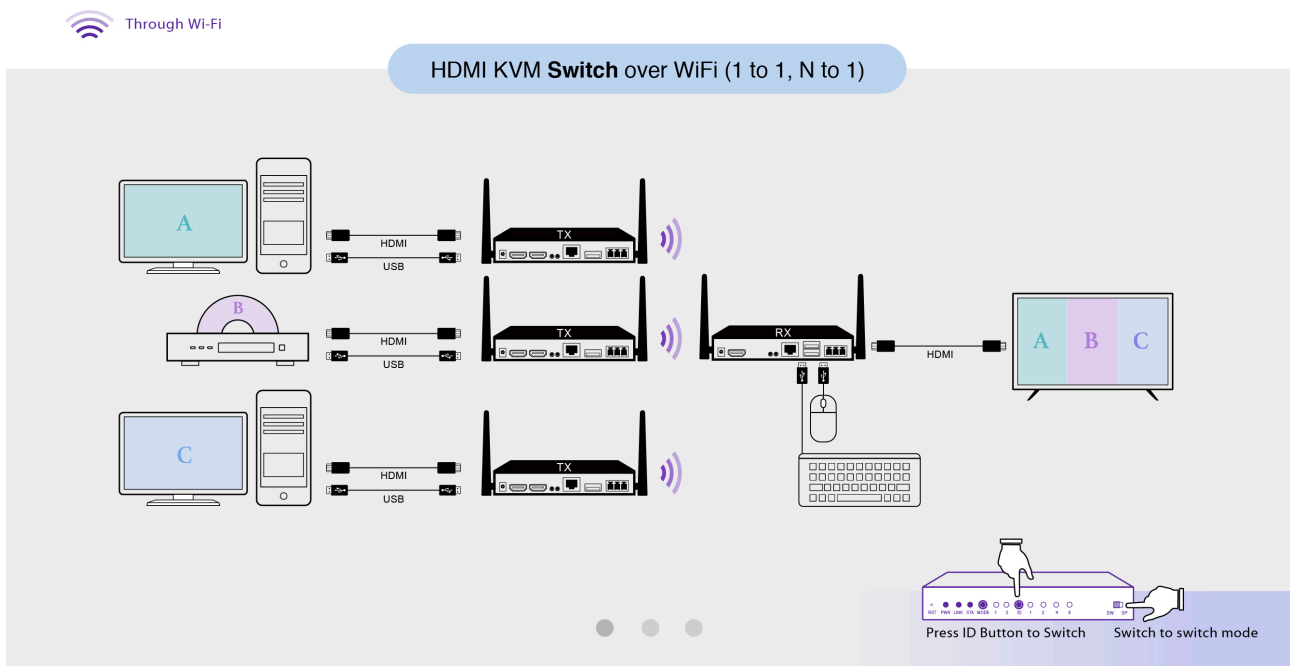
4-3. Switch/ Router configuration for EZCast ProAV

EZCast ProAV system transmits data in multicast traffic to allow streaming multiple multimedia to specific recipients at the same time. However, multicast traffic may flood the ports and slow your network, even if your device is connected to a particular port that doesn't need the service. To prevent the effect of low bandwidth transmission upon your current enterprise network environment, there are some suggested solutions below:

1. Enable Internet Group Management Protocol (IGMP) snooping service on your switch.
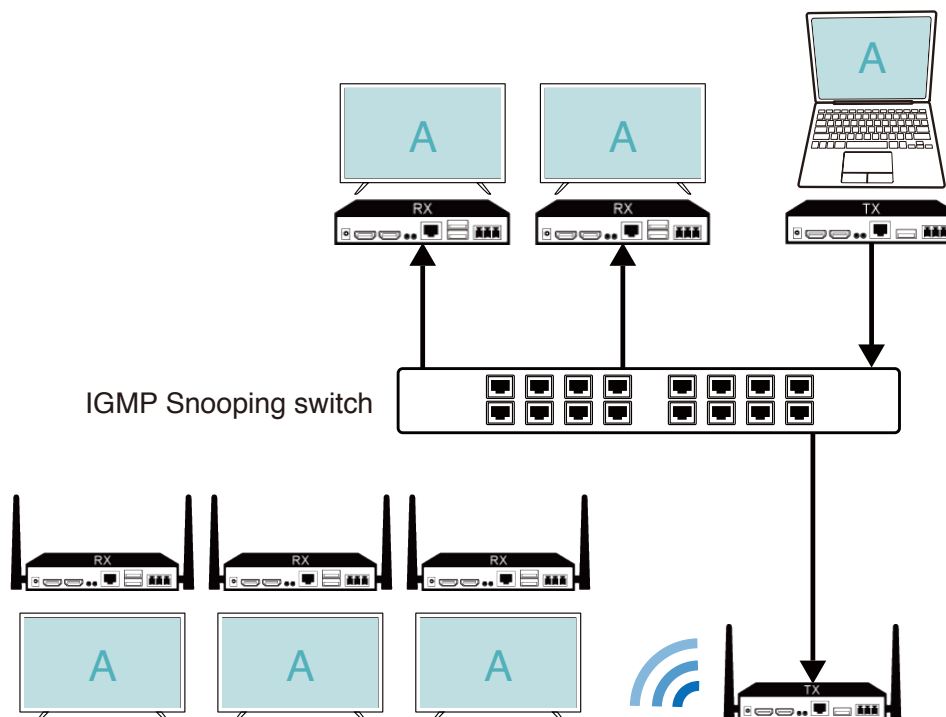
2. Set different VLAN ID of network ports connected to EZCast ProAV from your current devices.
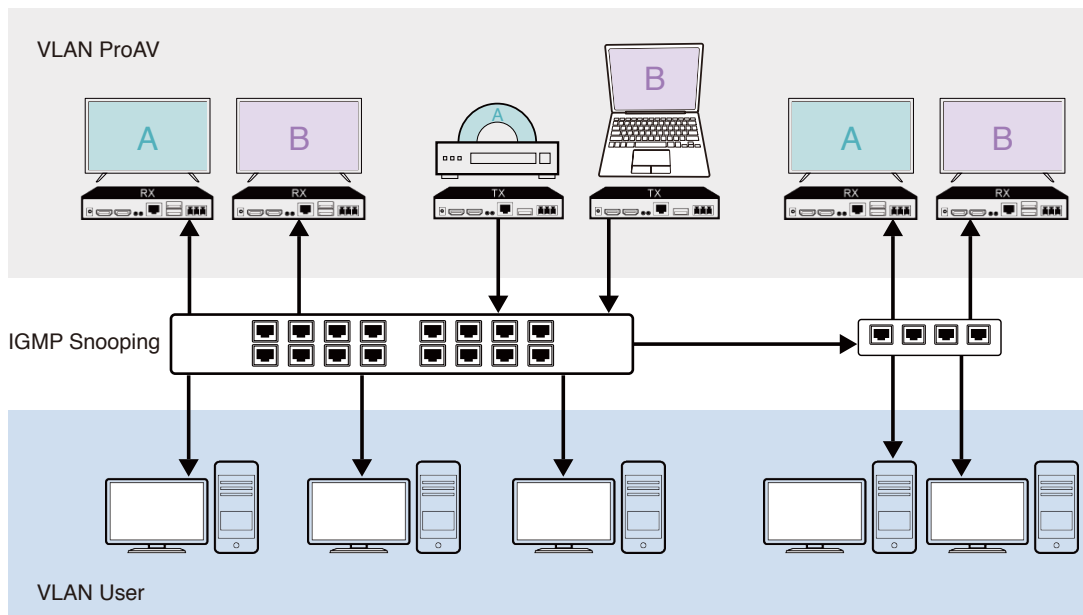
3. Establish a dependent network environment for EZCast ProAV to avoid the flooding.
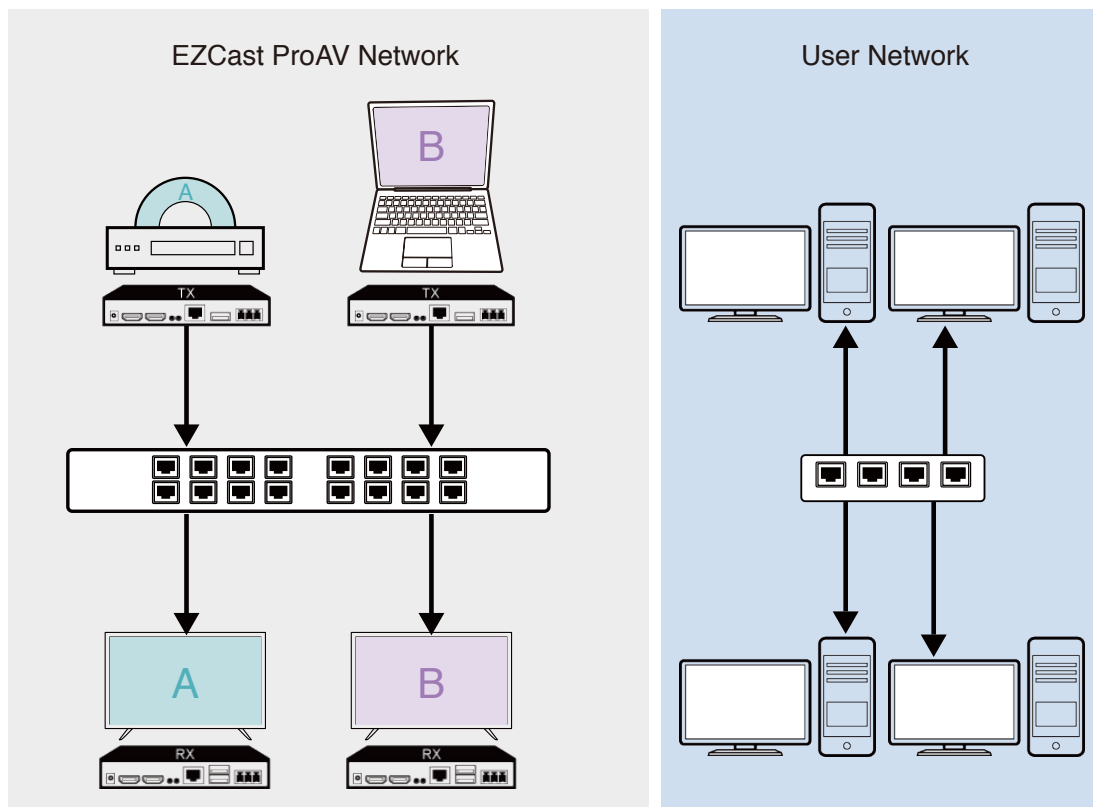
* Troubleshooting guide:
Unable to transmit data among EZCast ProAV: Please make sure to unblock the TCP/UDP port access in the firewall settings of your network.

5. Settings

5-1. Settings

Only receivers (ER01 and WR01) support settings on website. Connect your computer to the same network as the receivers and login as Admin to access the settings.

5-1-1. How to launch the settings

- ER01

   1. Connect ER01 with LAN cable to a subnet with DHCP service. It's also possible to enable DHCP on ET01 connected to the same network as ER01.
   2. Launch the browser from PC connecting to the same subnet with ER01.
   3. Get the IP from the OSD (ex: Infrastructure IP: 192.168.0.123) and input in the address field of browser to launch.

- WR01 (Direct link)

   1. Position the toggle switch to Splitter Mode on WR01.
   2. Connect your Wi-Fi of the PC to the WR01 and launch the browser.
   3. Get the Direct Link IP: 192.168.168.1 from the OSD and input in the address field of the browser to launch.
   * Note: It's unable to upgrade firmware of WR01/ WT01 through direct link access.

- WR01 (LAN)

   1. Connect WR01 with LAN cable to a subnet.
   2. Launch the browser from PC connecting to the same subnet with WR01.
   3. Get the IP from the OSD (ex: Infrastructure IP: 192.168.0.123) and input in the address field of browser to launch.

5-1-2. Setting contents

- ER01

   1. Admin Password: The default admin password is 000000. Please enter and change the admin password at the first time. Whenever logged in as Admin, admin password is changeable.
   2. HDCP Pass Through: Enable HDCP encryption based on the request from HDMI source (PC or DVD player).
   3. Upgrade: Upgrade firmware of device from the Internet when the device is connected to the Internet.
   4. Reboot: Reboot the device.

-WR01

   1. Device Management: Language settings.
   2. Admin Settings: Login as Admin to access.
   - Wi-Fi Channel: Set your country, channel, and bandwidth of the device.
   - Admin Password: The default admin password is 000000. Please enter and change the admin password at the first time. Whenever logged in as Admin, admin password is changeable.
   - HDCP Pass Through: Enable HDCP encryption based on the request from HDMI source (PC or DVD player).

- Upgrade: Upgrade firmware of device from the Internet when the device is connected to the Internet.
- Reboot: Reboot the device.
- Reset to Factory Default: Reset all the settings to default.
3. About Device: Detail information of WR01 and the paired WT01 with the same channel ID.

5-2. Firmware Upgrade (OTA)

5-2-1. ER01/ ET01 Upgrade

1. Launch the settings on website page and login as Admin.
2. Make sure ER01 has been connected to the Internet.
3. Click "Upgrade" to check the latest version and to upgrade firmware of ER01 and ET01. Note that there's no settings page for ET01, please upgrade ET01 from the ER01 connected to the same network with the same channel ID.

* **Troubleshooting guide:**
1. Unable to launch the settings website page: Make sure ER01 has been connected to the subnet with DHCP service. If there's no DHCP service, it's also possible to enable DHCP on ET01 connected to the same network as ER01.
2. Unable to upgrade ET01: Access the upgrading comment from the settings page of ER01 connected to the same network. Please make sure ET01 and ER01 are set to the same channel ID.

5-2-1. WR01/ WT01 Upgrade

1. Launch the web settings and login as Admin.
2. Make sure WR01 has been connected to the Internet.
3. Click "Upgrade" to check the latest version and to upgrade firmware of WR01 and WT01. Note that there's no settings page for WT01, please upgrade WT01 from the paired WR01 with the same toggle switch mode and the same channel ID.

* **Troubleshooting guide:**
Unable to upgrade WT01: Access the upgrading command from the settings page of WR01 connected to the same network. Please make sure WT01 and WR01 (1) are both switched to the Switch Mode, (2) have been paired together, and (3) are set to the same channel ID.

Appendix

Support list of display input		4K Model
TX HDMI input and RX HDMI output		1.11534.0
TX HDMI input	RX HDMI output	HDMI loopback output
640x480 60Hz	800x600 60Hz	640x480 60Hz
800x600 60Hz	800x600 60Hz	800x600 60Hz
1024x768 60Hz	1024x768 60Hz	1024x768 60Hz
1280x720 60Hz	1280x720 60Hz	1280x720 60Hz
1280x720 50Hz	1280x720 60Hz	1280x720 50Hz
1280x768 60Hz	1280x768 60Hz	1280x768 60Hz
1280x800 60Hz	1280x800 60Hz	1280x800 60Hz
1280x960 60Hz	1280X960 60Hz	1280x960 60Hz
1280x1024 60Hz	1280x1024 60Hz	1280x1024 60Hz
1360x768 60Hz	1920x1080 60Hz	1360x768 60Hz
1400x1050 60Hz	1400x1050 60Hz	1400x1050 60Hz
1440x900 60Hz	1440x900 60Hz	1440x900 60Hz
1920x1200 60Hz	1920x1200 60Hz	1920x1200 60Hz
1600x1200 60Hz	1600x1200 60Hz	1600x1200 60Hz
1680x1050 60Hz	1680X1050 60Hz	1680x1050 60Hz
1920x1080 60Hz	1920x1080 60Hz	1920x1080 60Hz
1920x1080i 60Hz	1920x1080 60Hz	1920x1080i 60Hz
1920x1080 50Hz	1920x1080 60Hz	1920x1080 50Hz
1920x1080i 50Hz	1920x1080 60Hz	1920x1080i 50Hz
3840X2160 60Hz	3840X2160 30Hz	3840X2160 60Hz
4096X2160 60Hz	4096X2160 30Hz	4096X2160 60Hz

Support list of display input		1080P Model
TX HDMI input and RX HDMI output		1.11194.0
TX HDMI input	**RX HDMI output**	**HDMI loopback output**
640x480 60Hz	800x600 60Hz	800x600 60Hz
800x600 60Hz	800x600 60Hz	800x600 60Hz
1024x768 60Hz	1024x768 60Hz	1024x768 60Hz
1280x720 60Hz	1280x720 60Hz	1280x720 60Hz
1280x720 50Hz	1280x720 60Hz	1280x720 60Hz
1280x768 60Hz	1280x768 60Hz	1280x768 60Hz
1280x800 60Hz	1280x800 60Hz	1280x800 60Hz
1280x960 60Hz	1280X960 60Hz	1280x960 60Hz
1280x1024 60Hz	1280x1024 60Hz	1280x1024 60Hz
1360x768 60Hz	1920x1080 60Hz	1920x1080 60Hz
1400x1050 60Hz	1400x1050 60Hz	1400x1050 60Hz
1440x900 60Hz	1440x900 60Hz	1440x900 60Hz
1920x1200 60Hz	1920x1200 60Hz	1920x1200 60Hz
1600x1200 60Hz	1600x1200 60Hz	1600x1200 60Hz
1680x1050 60Hz	1680X1050 60Hz	1680x1050 60Hz
1920x1080 60Hz	1920x1080 60Hz	1920x1080 60Hz
1920x1080i 60Hz	1920x1080 60Hz	1920x1080 60Hz
1920x1080 50Hz	1920x1080 60Hz	1920x1080 60Hz
1920x1080i 50Hz	1920x1080 60Hz	1920x1080 60Hz

* The blue marks the difference with TX HDMI input but is the same as RX HDMI output.