Multi-Media LAN Transmitter and Receiver - **ID# 864**

Operation Manual

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Introduction

HDMI & USB over CAT5/6 TX/RX is a pair of devices that allow a HDMI and/or USB host device to send and save data up to 100 metres away over CAT5/6 cable, while offering four USB port extensions to facilitate operation from the remote end. This means that you can connect and operate a PC via a keyboard and mouse connected to the receive unit at the remote end. Fully compliant with HDMI v1.3, HDCP 1.1 and DVI 1.1 specifications, the HDMI & USB over CAT5/6 TX/RX is ideal for remote PC USB and HDMI transmission.

Moreover, when connected to another device from the same family you may extend the transmission distance as far as you want without any signal loss or delay, or connect with multiple pairs of the extenders to set up a Local Area Network of up to 16 units/devices for data sharing among the connected sources and displays.

The HDMI & USB over a CAT5e/6 transmitter and receiver box are the ideal choice for your HDMI & USB extension and data sharing needs.

Also works with DVI by using a "DVI to HDMI cable" adaptor.

Features

- HDMI v1.3, HDCP v1.1 and DVI v1.0 compliant
- Support USB 2.0 high-speed and USB 1.1 (full-speed, low-speed) devices
- Operate with USB 2.0 high speed host controllers and USB 1.1 classic hosts
- True plug and play without any driver installation required
- Display and control of the host device and source equipment
- Save and share data into a separate room
- Tested CAT5 cable distance of up to 100 meters or cascade up to as long it require or link up to 16 pairs for matrix system
- Supports digital display output resolution up to 1920 x 1080@60Hz
- Adopt visually lossless video compression algorithm
- Automatic display mode detection and DDC synchronization
- Support Over-LAN (TCP/IP)
- Simple set up with easy to use
- LED indicators for easy viewing
- Total transmission frequency 1G Hz

Applications

- HDMI, DVI, RS-232, IR&USB Extender
- Broadcasting system over single CAT5e/6
- Multimedia display and multi-data sharing
- Long distance data sending with cascade
- Matrix network system
- System control over RS-232 and equipment control over IR
- KVM control

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System Requirements

- Input HDMI and or USB source equipment such as DVD, Blue-Ray player and or PC/Notebook with connection cables.
- Output display such as HD TV, monitor and or PC/Notebook, active
- speaker, amplifier and connection cables.
- CAT5e/6 cable up to 100Ms in between of transmitter and receiver.

Operation Controls and Functions
Front Panel

Transmitter
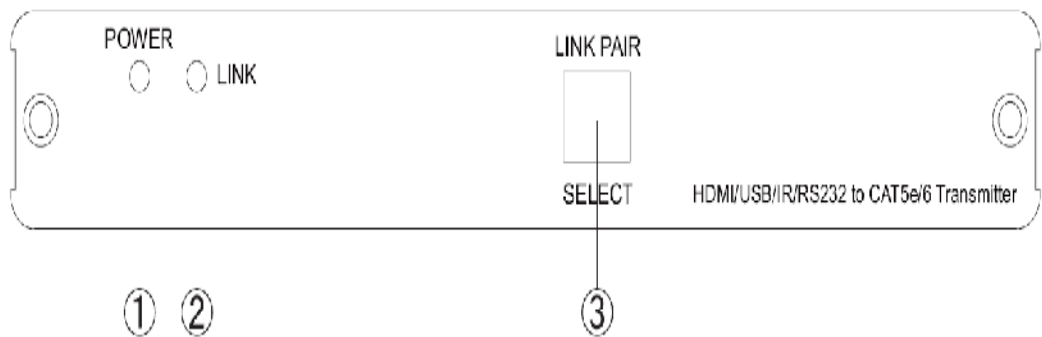
① **Power LED:** The red LED will illuminate when the device is connected with power.
② **Link LED:** The LED red will illuminate when the device has received input source single and output display's data.
③ **LINK PAIR SELECT:** This dip switch allows user with matrix setting for link up to 16 pairs of the devices with single IP router. Each pair must have the same dip switch setting in order to pair to the right device setting. The factory default setting is at 0000.

Rear Panel
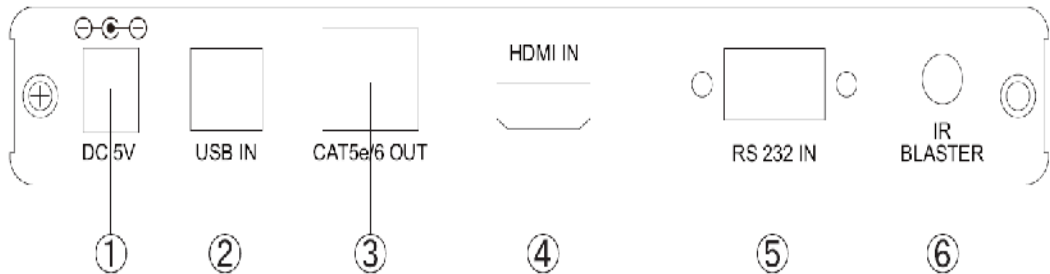
① **DC 5V:** Plug the 5V DC power supply into the unit and connect the adaptor to AC wall outlet. Power LED will illuminate when the power is on.
② **USB IN:** This slot is to connect with PC/Notebook for input source signal with connection cable.
③ **CAT5e/6 OUT:** This slot is to connect with CAT5e/6 cable with receiver side's CAT5e/6 input.
④ **HDMI IN:** This slot is to connect with input source such as DVD or Blue-Ray player with connection cable.

⑤ **RS 232 IN:** This slot is to connect with D-Sub 9pin from PC's system for controlling both the input source and output display over RS-232.

⑥ **IR BLASTER:** This slot is to connect with IR blaster cable included in the package for IR signal sending and controlling the HDMI input source equipment.

Receiver
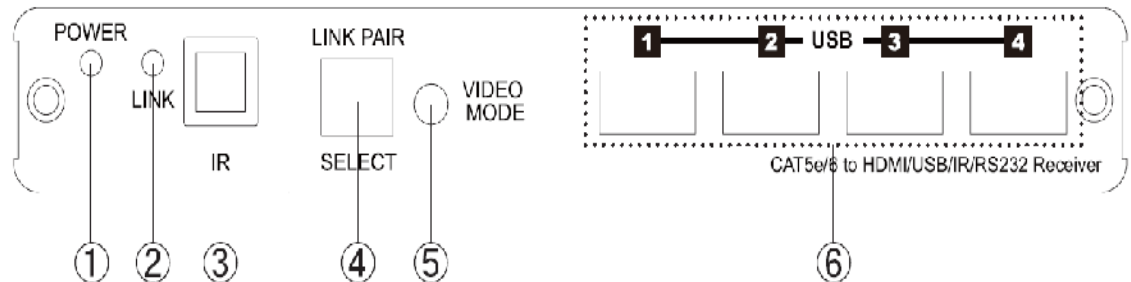
① **Power LED:** The red LED will illuminate when the device is connected with power.

② **Link LED:** The LED red will illuminate when the device has received output display's single and input source's data.

③ **IR:**

④ **LINK PAIR SELECT:** This dip switch allows user with matrix setting for link up to 16 pairs of the devices with single IP router. Each pair must have the same dip switch setting in order to pair to the right device setting. The factory default setting is at 0000.

⑤ **VIDEO MODE:** Press this button to switch in between the video and graphic mode. The OSD will display your selection every time when the button is pressed.

⑥ **USB 1~4:** These slots are for users to connect with keyboard, mouse, HDD, USB flash drive and…etc. for USB hub function and KVM usage.
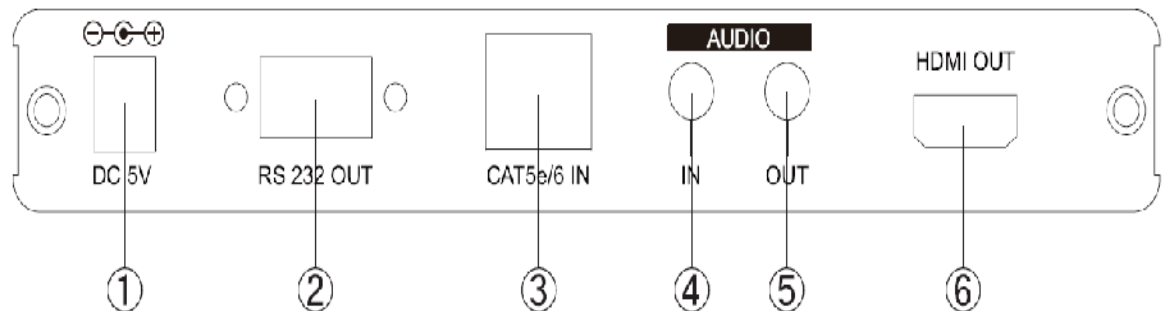
① **DC 5V:** Plug the 5V DC power supply into the unit and connect the adaptor to AC wall outlet. Power LED will illuminate when the power is on.

② **RS 232 OUT:** This slot is to connect with D-Sub 9pin cable from PC's system for controlling both the input source and output display over RS-232.

③ **CAT5e/6 IN:** This slot is to connect with CAT5e/6 cable with transmitter side's CAT5e/6 output

④ **AUDIO IN:** This slot is for extra audio input source signal to be connected with 3.5Ø phone jack cable.

⑤ **AUDIO OUT:** This slot is for external audio output equipment to be connected with active speaker and connection cable.
⑥ **HDMI OUT:** This slot is to connect with output display such as HD TV or monitor with connection cable.

Specifications

Transmitter	
Input Port	1 x USB (B type)
	1 x HDMI
	1 x IR Blaster
	1 x RS-232
Output Port	1 x RJ45
Receiver	
Input Port	1 x RJ45
Output Ports	4 x USB (A type)
	1 x HDMI
	1 x RS-232
	1 x IR Receiver
	1 x 3.5Ø Phone Jack
	1 x 3.5Ø Microphone
ESD Protection	Human body model:
	± 10kV (air-gap discharge)
	± 6kV (contact discharge)
Power Supply	5V / 2.6A (US/EU standards, CE/FCC/UL certified)
Dimensions (mm)	102 (W) x 95 (D) x 25 (H)
Weight(g)	214 / Transmitter, 220 / Receiver
Chassis Material	Aluminum
Silkscreen Color	Black
Operating Temperature	0˚C ~ 40˚C / 32˚F ~ 104˚F
Storage Temperature	-20˚C ~ 60˚C / -4˚F ~ 140˚F
Power Consumption	5W / Transmitter, 12W / Receiver
Relative Humidity	20~90% RH (non condensing)

Connection

DC 5V USB IN CAT5e/6 OUT HDMI IN RS 232 IN IR BLASTER

100m

Notebook

DVD or Blu-ray

PC or Notebook

100m or IP Router 100m

DC 5V RS 232 OUT CAT5e/6 IN AUDIO IN OUT HDMI OUT

Microphone Active Speaker TV/Monitor

POWER LINK LINK PAIR ON 1 2 3 4 SELECT VIDEO MODE 1 2 USB 3 4

IR CAT5e/6 to HDMI/USB/IR/RS232 Receiver

3M 3M 30° 30° 7M

Keybord Mouse HDD Flash

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