

EZCast ProAV series
ET02/ER02
Specification

Rev. 1.02

Revision	History	Date
V1.00	Initial Release	2021/Jan.
V1.01	HDMI input change	2021/Feb.
V1.02	Timing Correction	2021/Feb.

Introduction

EZCast ProAV is the latest Display-over-IP product we designed for ProAV market. The ET01 and ER01 comes with high speed gigabit ethernet to bring you long range HDMI extension over LAN port with up to 4K video transmission. It's a plug & play product without any complicated setting needed, furthermore, it supports USB reverse control for Keyboard/Mouse to achieve KVM function over simple ethernet cable. You can also easily broadcast video from 1 transmitter to many receivers or matrix features with minimum cost.

System Requirement:

- Device support: Any device with HDMI 1.4 above
- Cat. 5 above Ethernet cable (Cat. 5e or higher recommended for 4K)

Features:

- Audio/Video transmission over IP with Low latency
- Gigabit ethernet supported
- Built-in on-chip hardware video encoder for Full HD video with 60fps
- USB 2.0 Host for HID devices
- KVM mode and 1-to-many Splitter mode
- Support many-to-many Matrix function
- HDMI lookback display for local monitoring (ET02 only)

Receiver (ER02) Spec:

CPU	1Ghz Dual Core CPU
Output Resolution	Support Auto EDID passthrough <ul style="list-style-type: none">● 800x600@60hz● 1024x768@60hz● 1280x720@60hz● 1280x768@60hz● 1280x800@60hz● 1280x960@60hz● 1280x1024@60hz● 1400x1050@60hz● 1440x900@60hz● 1600x1200@60hz● 1680x1050@60hz● 1920x1080@60hz● 1920x1200@60hz● 3840x2160@30hz● 4096x2160@30hz
I/O	<ul style="list-style-type: none">● HDMI out (HDMI1.4)

	<ul style="list-style-type: none"> ● USB type A (USB 2.0) x2 ● DC-in ● Aux out ● IR-in ● RJ-45 ● RS-232
Ethernet	802.3ab 1000BASE-T high speed ethernet
Power	DC 12V, 1A
HDMI	HMDI 1.4 with HDCP1.4
LED Indication	Power, Link, Status, Mode, ID indication
Key	Mode button, ID Switch button, Device Mode Switch, Reset
Power Consumption	12W
Working Temp.	0~40°C
Storage Temp.	-20~70°C

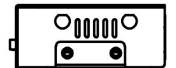
Transmitter (ET02) Spec:

CPU	1Ghz RISC CPU
Input Resolution	HDMI Input: <ul style="list-style-type: none"> ● 640x480@60hz ● 800x600@60hz ● 1024x768@60hz ● 1280x720@50hz/60hz ● 1280x768@60hz ● 1280x800@60hz ● 1280x960@60hz ● 1280x1024@60hz ● 1360x768@60hz ● 1400x1050@60hz ● 1440x900@60hz ● 1600x1200@60hz ● 1680x1050@60hz ● 1920x1080i@50hz/60hz ● 1920x1080@50hz/60hz ● 1920x1200@60hz ● 3840x2160@60hz ● 4096x2160@60hz HDMI lookback output: <ul style="list-style-type: none"> ● Same as above
I/O	<ul style="list-style-type: none"> ● HDMI in (HDMI2.0) ● HDMI out (HDMI2.0) ● USB type A (USB 2.0) ● DC-in ● Aux out

	<ul style="list-style-type: none"> ● IR-in ● RJ-45 ● RS-232
Ethernet	802.3ab 1000BASE-T high speed ethernet
Power	DC 12V, 1A
HDMI	HDMI 2.0 with HDCP 2.0
LED Indication	<ul style="list-style-type: none"> ● Power ● Link ● Status ● Mode ID indication
Key	<ul style="list-style-type: none"> ● Mode button ● ID Switch button ● Reset
Power Consumption	12W
Working Temp.	● 0~40°C
Storage Temp.	● -20~70°C

Dimension (ER02/ET02):

- L 170mm x W 65mm x H27mm



Weight:

- 280g approx. (not including DC adaptor), Tx and Rx are the same weight.

Installation Guide:

*Notice: Please remember to pair the Tx and Rx in advance. You can simply use HDMI cable (A-to-A cable) to connect Tx and Rx for pairing. For more operations, please check the user's manual.

1 Tx to 1 Rx:

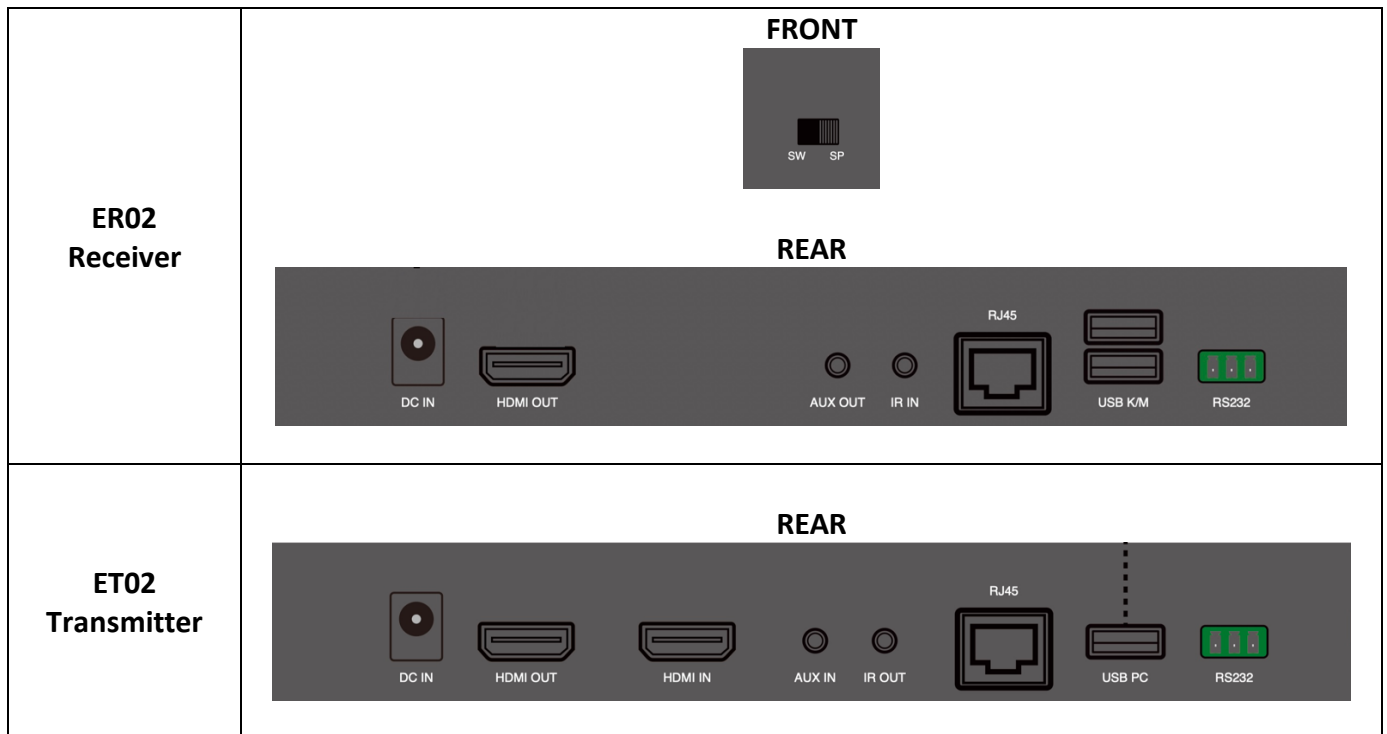
- Switch Rx's device mode to 『SP』 mode
- Connect Power with the adaptor for Tx and Rx
- Connect Rx's HDMI port output to HDMI projectors or displays.
- Direct connect Tx and Rx over ethernet cable
- Connect HDMI source to Tx, and make sure the Tx and Rx's ID LED is the same

- If you need to monitor the transmitting content, you can connect another monitor/projector to Tx 's HDMI out for lookback locally.

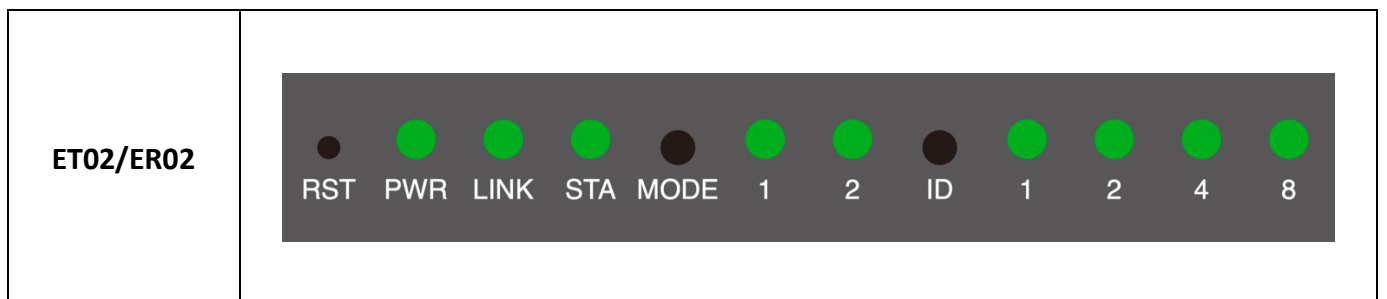
1 Tx to Multiple Rx:

- Switch Rx's device mode to 『SW』 mode
- Connect Power with the adaptor for Tx and Rx
- Connect Rx's HDMI port output to HDMI projectors or displays.
- Connect Tx and Rx to your ethernet router/switch
- Connect HDMI source to Tx, and make sure all Rx's ID LED is the same
- If you need to monitor the transmitting content, you can connect another monitor/projector to Tx 's HDMI out for lookback locally.

I/O Descriptions:



LED Indication:



Absolute Max. Ratings:

Symbol	Min.	Max.	Unit
DC input	11.4	12.6	V

Ambient Temp.	0	+40	Celsius degrees
Latency	40	80	ms (*measured by ethernet transmission, the figures may vary due to different ethernet environment)