Managed HDMI Extender

Model: FS-HD2102E

Transmit or receive HDMI signal over single standard Cat5e/6

- FS-HD2102E consists of a transmitter unit and a receiver unit
- HD Video reaches 150m(1080p@60Hz)
- Support IR pass-back with frequency of 38KHz
- Support HDMI 1.3 and HDCP1.2
- LED Status to indicate HDMI Activity
- Support Audio format DTS-HD/Dolby True HD/PCM/ Dolby AC3/DSD
- Highest resolution up to 1080p@60Hz
- HD Video over IP transmission solution, max bandwidth <80Mbps
- Power supply 5VDC/1A power adaptor included
- Easy and convenient to use, plug & play, no need to configure
- Metal housing for stable and durable working life

Overview

The FS-HD2102E is a HDMI extender which adopts new HDMI extending technology. The product consists of a transmitter unit and a receiver unit and should be used in pairs.

With the application of this HDMI extender, HDMI signal could be extended up to 150m over single cost-effective Cat5e/6 or above cable at higher standard. Transmission distance up to 150m is a perfect solution for family application as well as CCTV monitoring.

The FS-HD2102E extender is a complete solution to solve the image mosaic, color distortion, transmission failure and other problems when long distance HDMI signal is transmitted. It supports EQ setting-automatically to search the best transmitting resolution HDMI signals, and support infrared pass-back function, etc. The product is widely applied to situations such as Home Theater, Exhibition, Multi-media classroom, etc.

IR Pass-back Function:

Step1: Insert one end of infrared receiving component into "IR IN" of FS-HD2102E-RX and the other end at IR Remote Controller;

Step2: Insert one end of infrared emission component into "IR OUT "of FS-HD2102E-TX and the other end at the corresponding infrared

receiving component of video source such as DVR player.

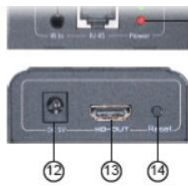Step 3: IR remote control function starts after above proper operations are ok.

Quick Setup Guide:

Step1: Begin with all input/output devices turned off and power cables are removed.

Step2: Use a HDMI cable: connect the male end to video source, the female end to "HDMI IN" of FS-HD2102E-TX.

Use a Cat5e/6 cable: connect one end to RJ 45 connector of FS-HD2102E-TX, the other end to RJ 45 connector of FS-HD2102E-RX.

Step3: Use another HDMI cable: connect the male end to "HDMI OUT" of FS-HD2102E-RX, the other end to display device.

Step4: Make sure the connections mentioned above are finished properly. Then connect FS-HD2102E-TX and FS-HD2102E-RX to DC+5V power supply.

When the red power LED indicator turns on and display device works with good image, then the whole connection is done successfully.

③ Green light
④ Red light
⑤ Power
⑥ HDMI input
⑦ Reset button

⑪ Red light
⑫ Power
⑬ HDMI out
⑭ Reset button

Transmitter   **Receiver**

RJ 45 Define

12345678
① Video +
② Video -
③④⑤ Power -
⑥⑦⑧ Power +

Pair 2   Pair 2
Pair 3 Pair 1 Pair 4   Pair 3 Pair 1 Pair 4
12345678   12345678
T568A   T568B
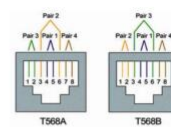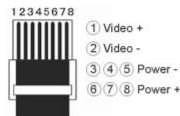
EIA/TIA-568A Wiring Specifications

Wire	Pin #	Configuration
Green White	1	Video (+)
Green	2	Video (-)
Orange White	3	Power (-)
Blue	4	Power (-)
Blue White	5	Power (-)
Orange	6	Power (+)
Brown White	7	Power (+)
Brown	8	Power (+)

EIA/TIA -568B Wiring Specifications

Wire	Pin #	Configuration
Orange White	1	Video (+)
Orange	2	Video (-)
Green White	3	Power (-)
Blue	4	Power (-)
Blue White	5	Power (-)
Green	6	Power (+)
Brown White	7	Power (+)
Brown	8	Power (+)

Technical Specifications

Product Name	HDMI Extender
Model	FS-HD2102E
Version	HDMI1.3 HDCP1.2
Resolution	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@60Hz
Max Transmission	Transmission distance max up to 150m over Cat5e/6 or above
IR Remote Control	Support 38K carrier IR control
EQ control	Touch EQ button softly, auto-matching the optimum resolution
Power Adapter	DC5V/1A
Power Consumption	TX: ≤3W RX: ≤3W
Red Indicator	DC+5V power indicator
Green Indicator	Data signal indicator
ESD Protection	Electronics Touch Discharge: ±2KV Air Discharge: ±4KV Standard: IEC61000-4-2
Temperature	0℃～55℃
Humidity	0～95℃
Dimension	108.3X68X27mm
Housing	Zink Alloy

• Venue display system

• Medical Monitoring Display System

• LCD and plasma flat panel multimedia advertising project

• Big screen LED curtain wall display project

• The large projection equipment display system

• The industrial automation and control system

• Audio/Video meeting system

• Security monitoring system

• Multimedia network education system

• Long-distance network server monitoring

• Central control system

• Military exercises command system

FS-HD2102E-TX   FS-HD2102E-RX
HDMI-IN   HDMI-OUT
DVD   CAT5E   HDMI-Display
IR OUT   IR IN

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