J-TECH DIGITAL®

Website:www.jtechdigital.com
Toll Free:1-888-610-2818[US]
Email:Support@jtechdigital.com

USER MANUAL

J-Tech Digital®ProAV 1x8 HDMI Extender Over Ethernet Cable
With 8 Receivers and Local HDMI Output Supports Wide-Band Bi-Directional IR

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE   RoHS   FC   CE

JTD-ID:141

Notice

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute the warranty of any kind, express or implied.

Features

- Distribute 1 HDMI singal to 8 identical UTP outputs synchronously, with 1xlooping HDMI output.
- Transmit over 50m single Cat5e/6 cable.
- Can be cascaded for 4 layers.
- With wide-band Bi-Direction IR control (38 ~ 56 kHz). (IR extension from Sender to Receiver or from Receiver to Sender)
- Support Full HD 1080p, VESA resolution: 1920x1200.
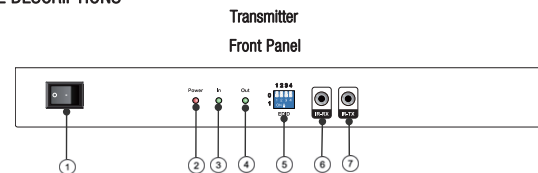- Supports Dolby® TrueHD, DTS-HD ®Master Audio.™
- Support 3D.

NOTICE

Our company reserves the right to make changes in the hardware, packaging and any accompanying documentation without prior written notice.
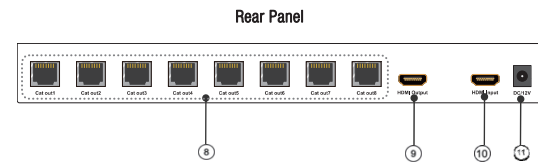
TABLE OF CONTENTS

SPECIFICATIONS

Operating Temperature Range	-10℃~40℃(+14~140°F)
Operating Humidity Range	5 to 95%RH (No Condensation)
Video Amplifier Bandwidth	140MHz
Input Video Signal	0.5~1.0 Volts P-P
Input DDC Signal	5 volts p-p(TTL)
Data transfer speed rate	6.75Gbps(Maximum)
Input port	1xHDMI
Output ports	8xCat5e/6, 1xHDMI
Video Format Supported	DTV/HDTV:720P/1080i/1080P VESA resolution:1920x1200① 3D video support
Vertical Frequency range	60Hz
Support Audio Format	DTS-HD Master Audio, Dolby True HD, multi-channel 5.1, stereo etc ②
Transmission Distance	1080P 8-bit 50m Over single cat5e or cat6 cable/24AWG/Solid③
Power consumption	22W(Max)
Dimension (L×W×H)	TX: L297.4xW135.2xH33.7mm; RX: L85xW65xH24mm
Net Weight	TX: 1242.8g; RX: 159.5g

Note: ① The transmission distance is Max 40m under 1920x1200 resolution.
② The distance is 40m under 5.1CH or 7.1CH.
③ Under perfect transmission conditions including straight cable runs with no electrical interference, bends, kinks, patch panels or wall outlets.

Package Contents

- 1 x HDMI Transmitter, 8 x HDMI Receiver
- 1 x 12 DC Adapter; 8 x 5V DC Adapter
- 9 x IR TX Cable, 9 x IR RX Cable
- 1 x User Manual

PANEL DESCRIPTIONS

Transmitter
Front Panel

1. Power on/off: press the up/down to open/close the device.
2. Power input indicator
3. Indicator of HDMI input
4. Indicator of HDMI output
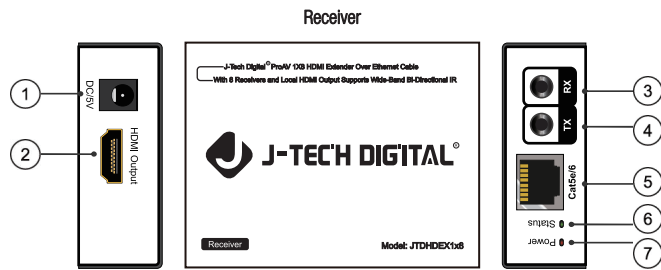5. DIP switch for EDID setting
6. IR-RX port
7. IR-TX port

Rear Panel

8. CAT-5E/6 out ports
9. HDMI output
10. HDMI input
11. Power input

DIP Switch for EDID Setting

DIP Switch	EDID
0000	Default (1080P2D 2ch)
0001	Copy from HDMI output
0010	1080P2D 2CH
0011	1080P2D 6CH
0100	1080P2D 8CH
0101	Reserved
0110	1080P3D 2CH
0111	1080P3D 6CH
1111	1080P3D 8CH

Receiver

1. Power input
2. HDMI Output
3. IR RX
4. IR TX
5. Cat5e/6 input
6. Status of power input. When power input on, the LED lights
7. Status of signal connection. When this works well, the LED lights

Connecting and operating

1) Connect the HDMI input source into HDMI splitter.
2) Connect HDMI splitter and receiver by single cat5e/6 cable
(The cable termination must follow the standard of EIA/TIA 568B).
3) Connect the HDMI display (such as HD-LCD/HD-DLP) into the HDMI output of receiver.
4) Connect the Loop HDMI output port of HDMI Splitter with the HDMI Display (such as HD-LCD/HD-DLP) by HDMI cable.
5) Plug IR TX cable and IR RX cable to IR port of the Splitter.
6) Plug IR TX cable and IR RX cable to IR port of the Receiver.
7) Insert the power supply into HDMI splitter and receiver.

Connection Diagram
Application 1:

Application 2: Cascade for 4 layers

MAINTENANCE
Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner of benzine to clean this unit.

PRODUCT SERVICE
1) **Damage requiring service:**
The unit should be serviced by qualified service personnel if:
(a) The DC power supply cord or AC adaptor has been damaged;
(b) Objects or liquids have gotten into the unit;
(c) The unit has been exposed to rain;
(d) The unit does not operate normally or exhibits a marked change in performance;
(e) The unit has been dropped or the cabinet damaged.
2) **Servicing Personnel:** Do not attempt to service the unit beyond that described in these operating instructions.Refer all other servicing to authorized servicing personnel.
3) **Replacement parts:** When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.
4) **Safety check:** After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.
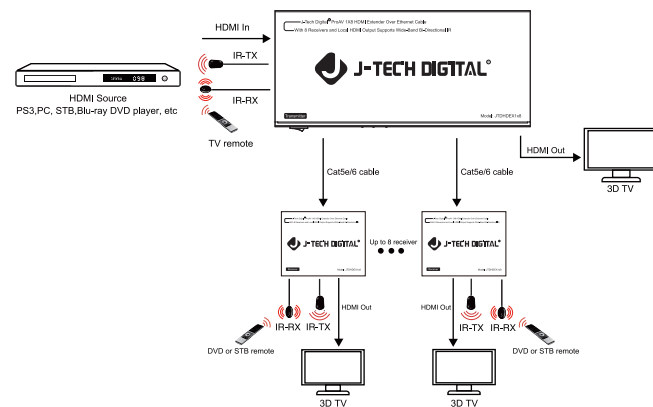
Trouble Shooting
1) What kind of cable should be use ?
CAT5E/6/24AEG/SOLID.

2) Does it output with 3D ?
Sink must support 3D when source is 3D device of source.

3) When 36Bits Deep corlor, what resolution output ?
We suggest set the HDMI output 1080i or 720p.

4) Why transmit distance can't reach 50m ?
We suggest 1080p 8bit, then can reach 50m.

5) When the sink can't display the signal, what should We do?
Try to note: When the sink can't display the signal ,try to connect HDMI transmitter to the display device, plug the power supply into Transmitter, press the "EDID copy button" and the light flashes, the EDID data has been from the display device successfully, at least press "EDID copy button" for 3 seconds, The EDID will be reset to the default setting.
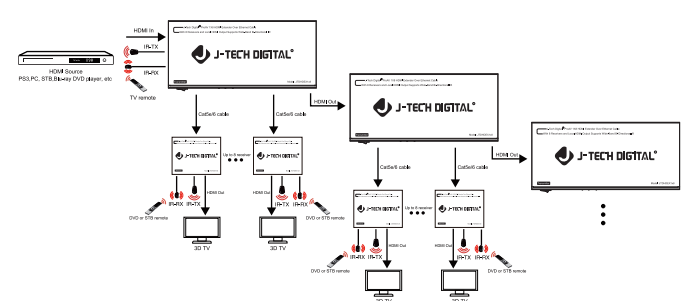
WARRANTY
Free lifetime technical support from the manufacture and free 1 Year Manufacturer Warranty from J-Tech Digital.

WWW.jtechdigital.com

◢ Product pictures are for reference only.
◢ Specifications described herein are subject to change without prior notification.
◢ All trademarks are the sole property of their respective companies.
◢ Copyright ©J-Techdigital, Inc. All rights reserved.