J-TECH DIGITAL®
USER MANUAL

4K@30Hz HDMI Extender 132 feet
Supports audio extraction, IR and PoC
JTD-3183 | JTECH-EX-4K30IP

J-TECH DIGITAL INC.
9807 EMILY LANE
STAFFORD, TX 77477
TEL: 1-888-610-2818
E-MAIL: SUPPORT@JTECHDIGITAL.COM

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE RoHS compliant CE FC

Scan the QR code below or visit
https://resource.jtechdigital.com/products/3183
to view and access detailed digital
resources regarding this unit.

Table of Contents

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1. What's included

Main Unit TX&RX

DC 12V Power Adapter
with Screw x 1

IR TX Cable x 1, IR RX
Cable x 1

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2. Ports and Interfaces

TX
① ② ③   ④ ⑤ ⑥

RX
① ② ⑦   ⑧ ⑨
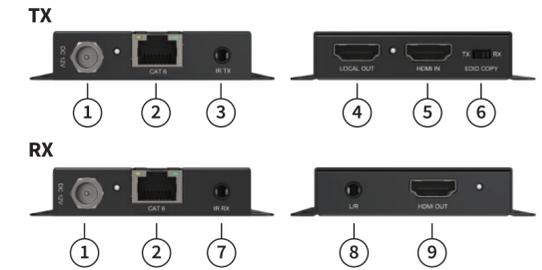
1. DC 12V: DC 12V In
2. CAT6: UTP Cable Connection Port
3. IR TX: IR Signal Output Port
4. LOCAL OUT: Connect to Output Devices via HDMI Male Output Port and LED Indicator
5. HDMI IN: Connect to Input Sources via HDMI Male Input Port
6. EDID Copy：the switch button at TX side means copy sender local output display`s EDID, at RX side means copy receiver output display`s EDID
7. IR RX: IR Signal Input Port
8. L/R: Connect to Output Stereo Audio Devices via 3.5mm Port
9. HDMI OUT: Connect to Output Devices via HDMI Male Output Port and LED Indicator

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3. Connection Diagram

DVD
Power Adapter   Power Adapter
HDMI Cable
CAT6 Cabel
HDMI Cable
IR TX   IR RX
HDMI Cable
DVD Remote Control
TV   TV

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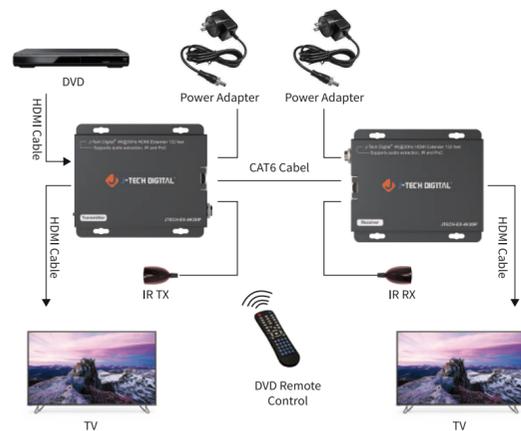
4. Introduction

The HDMI™ extender is an ideal device for remote viewing. It features extension function and extend the input of the HDMI™ signal to the remote output up to 40m(132 feet), perfect for point-to-point digital signage applications that require high quality HDMI™ video up to 4K@30Hz 4:4:4. It also works to extend Infrared IR signals from remote controls, ideal for controlling your video source from your video destination. It features single ended power supply enabling either the transmitter or receiver to be powered by a single 12V power supply.

5. Features

- Supports high resolution up to 4K@30Hz YUV 4:4:4
- Supports extending the input of the HDMI signal to the remote output up to 40m(132 feet) at 4K@30Hz 4:4:4 and 70m(230 feet) at 1080p@60Hz
- Supports HDCP 1.4
- Supports EDID and HDCP bypass
- Supports highest data transfer rate up to 3.4Gbps per channel (10.2Gbps all channels)
- TMDS clock can be up to 340MHz
- Supports 12bit per channel (36bit all channels) deep color
- Supports uncompressed audio such as LPCM
- Supports compressed audio such as DTS, Dolby Digital
- Supports single ended power supply feature, 12V power transmitted from sender to receiver

Note: the product only supports the HDR10 and HLG High Dynamic Range (HDR) signal, and don`t support the Dolby Vision High Dynamic Range (HDR) signal

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6. Specification

Input Port	HDMI x 1 RJ45 x 1, 3.5MM x 1
Output Port	HDMI x 2, RJ45 x 1, 3.5MM x 2
Extensions Distance	40m(132 feet) for 4K@30Hz 4:4:4; 70m(230 feet) for 1080P
Vertical Frequency Range	50/60Hz
IR Frequency Range	20-60KHz
Interlaced Resolutions(50&60Hz)	480i,576i,1080i
Progressive Resolutions(50&60Hz)	480p,576p,720p,1080p,4K@30Hz
Limited Warranty	1 Year Parts and Labor
Operating Temperature	0℃ to 50℃
Storage Humidity	5% to 90% RH non-condensation
Power Supply	DC 12V
Power Consumption (Max)	TX: 1.3W, RX: 1.6W
Extender Unit Cert	FCC, CE, RoHS
Power Supply Cert	FCC, CE, RoHS
Dimension(LxWxH)	91.4X81.6x15.8mm
Net Weight	TX: 132g /RX: 131 g
Material	Metal
User Manual	English Version

Note: Specifications are subject to change without notice.

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7. Troubleshooting

Problems	Causes	Solutions
Non-power-connected/all LED off	Maybe the power supply is not connecting well or use the wrong power adapter	Please check if the power supply is connecting well and the output voltage value is correct as recommended
No sound or sound issues	Maybe the HDMI connection is not well; the audio format is not supported by the displays; the source player set another port to output audio	Please check if the HDMI cables are connecting well; if the audio format is supported by the displays, customers can change to the supported audio format or the player`s audio output is setting HDMI audio output or not
No picture or picture flicker	Maybe the HDMI cable quality and UTP cable quality is not good enough or not connecting well	Please check if the HDMI and UTP connection is well, or change another good quality HDMI 1.4 standard HDMI cable or UTP(CAT6 or better cable is recommended) cable will solve the issue.

HDMI™ HIGH-DEFINITION MULTIMEDIA INTERFACE

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