# J-TECH DIGITAL®

## USER MANUAL

**4K@60Hz PoC HDMI Extender 230Ft with Loop Out, Downscaler**

JTD-3020 | JTECH-EX230V2

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

RoHS compliant

CE FC

Scan the QR code below, or visit
to view and access detailed digital
resources regarding this unit.

# Table of Contents

# What's included



Main Unit TX&RX



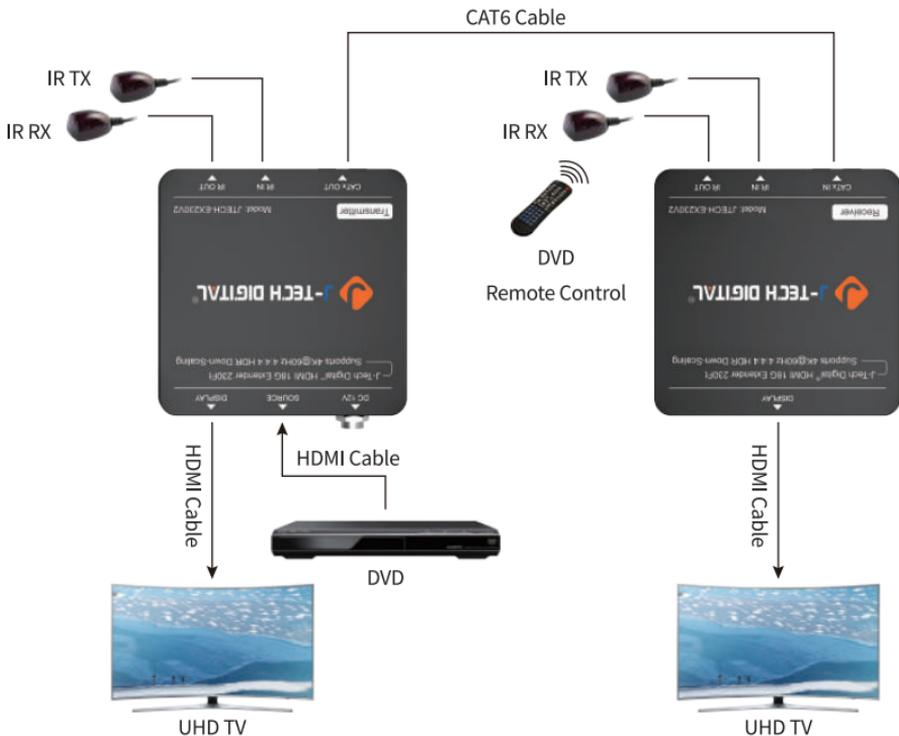Adapter with scew x 1



3M double-sided sticker x4



IR TX Cable x 1, IR RX Cable x 1

# Ports and Interfaces



1. DISPLAY: Connect to Output Devices via HDMI Male Output Port for local loop out

2. SOURCE: Connect to Input Sources via HDMI Male Input Port

3. DC 12V: DC 12V In

4. CATx OUT: UTP Cable Connection Port for signal out

5. IR IN: IR Signal Input Port

6. IR OUT: IR Signal Output Port

7. CATx IN: UTP Cable Connection Port for signal in

# Connection Diagram

CAT6 Cable

IR TX

IR RX

IR TX

IR RX

CAT X IN    IR IN    IR OUT

Model: JTECH-EX2230V2    Transmitter

J-Tech Digital™ HDMI 18G Extender 230ft
Supports 4K@60Hz 4:4:4 HDR Down-Scaling

**J-TECH DIGITAL™**

DC 12V    SOURCE    DISPLAY

CAT X IN    IR IN    IR OUT

Model: JTECH-EX2230V2    Receiver

J-Tech Digital™ HDMI 18G Extender 230ft
Supports 4K@60Hz 4:4:4 HDR Down-Scaling

**J-TECH DIGITAL™**

DISPLAY

DVD
Remote Control

HDMI Cable

HDMI Cable

HDMI Cable

DVD

UHD TV

UHD TV

# Introduction

The HDMI™ 1x2 Splitter extender is an ideal device for local displaying and remote viewing. It combines split function and extension function. It distributes the input of the HDMI™ signal into the local and remote outputs simultaneously, perfect for point-to-point digital signage applications that require high quality HDMI™ video up to 4K@60Hz 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 receiver to be powered from the transmitter by a single 12V power supply.

# Features

* Supports high resolution up to 4K@60Hz YUV 4:4:4

* Supports HDCP 2.2 and HDCP 1.4

* Supports High Dynamic Range (HDR) video

* Supports EDID and HDCP bypass

* Supports highest data transfer rate up to 6.0Gbps per channel (18Gbps all channels)

* TMDS clock can be up to 600MHz

* 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

# Specification

| | |
|---|---|
| Input Port | HDMI x 1 RJ45 x 1, 3.5MM x 2 |
| Output Port | HDMI x 1, LOOP OUT x 1 RJ45 x 1, 3.5MM x 2 |
| Extensions Distance | 70m(230 feet) for 4K@60Hz 4:4:4 |
| 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@60Hz |
| 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) | 80.5*80.5*17.3mm |
| Net Weight | TX: 61g, RX: 56g |
| Material | ABS |
| User Manual | English Version |

Note: Specifications are subject to change without notice.

# 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 2.0 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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