



USER MANUAL

HDMI/KVM Extender over Fiber 20km (4K@60Hz)

Enjoy the vivid world

Before using the product, please read this manual carefully and keep it properly.

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Introduction

This device uses optical fiber transmission technology and standard SFP optical module to extend HDMI signal to 20km (single mode) with non-destructive, supports 4K@60Hz 4:4:4 HDR video input and extended output. It's support IR, RS232 and KVM function. By using bidirectional single fiber LC interface, it has the characteristics of low cost and stable signal transmission. It can be used in security monitoring, high-definition signals between buildings, square large screens and other long-distance HDMI signal transmission fields.



Features

- * Support HDMI 4K@60Hz/ HDCP 2.2/ HDCP 1.4;
- * Support 7.1 channels;
- * Support HDMI loop out at the transmitter;
- * Supports HDR (HDR10/HDR10/Dolby Vision/HLG);
- * Support 3.5mm stereo output;
- * Support IR;
- * Support KVM;
- * Support RS232 transparent transmission;
- * Complies with SFP+ MSA and SFF-8472&SFF-8431 protocols;
- * Pure hardware design, plug and play, no additional software required;
- * Support 4K to 1080P (Downscaling).

Specifications

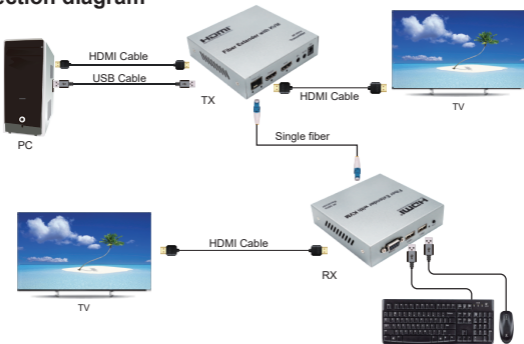
HDMI resolutionThe highest input resolution is 3840*2160@60Hz
Audio format DTS-HD/Dolby-trueHD/DTS/Dolby-AC3/ATMOS/PCM
Fiber wavelength 1270/1330nm
Fiber transmission distance20km
The maximum operating current 1.1A/5V DC(TX), 0.7A/5V DC (RX)
Operating Temperature range (-10℃ ~ +55℃)
Dimension (L x W x H) 106x106x17(mm)
Weight TX:272g RX:273g

Resolution	Input	Output	Total cable length	Cable requirement
4K@60Hz	≤5M	≤5M	≤10M	26AWG
4K@30Hz	≤10M	≤10M	≤20M	26AWG
1080@60Hz	≤15M	≤15M	≤30M	24AWG

Tips: Please buy the right cable as required

PS: The above data are obtained from the laboratory tests.

Connection diagram



Physical interface diagram



Interface	Function
RS232	RS232 port
USB-PC	USB port (connect to PC)
RST	Reset button
Fiber-LC	Fiber -LC type fiber port
Output	HDMI Signal output port
Input	HDMI Signal input port
R/L	3.5mm stereo output
IR-TX	IR transmitter port
DC	5V Power Interface

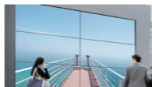


Interface	Function
RS232	RS232 port
USB1	USB port (connect with keyboard)
USB2	USB port (connect with mouse)
RST	Reset button
Fiber-LC	Fiber -LC type fiber port
Output	HDMI Signal output port
R/L	3.5mm stereo output
IR-RX	IR receiver port
DC	5V Power Interface

Application scene



Outdoor video wall



Shopping mall video wall



Monitor room

Package include

- | | |
|------------------------------------|-------|
| 1: HDMI fiber extender transmitter | 1PC |
| 2: HDMI fiber extender receiver | 1PC |
| 3: DC 5V/1.5A power supply | 2PCS |
| 4: User manual | 1PC |
| 5: IR Cable | 1PAIR |



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