



USER MANUAL

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

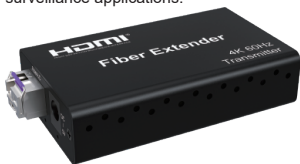
Enjoy the vivid world

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

Date of publication: 2025-06-24

Introduction :

This device uses optical fiber transmission technology and standard SFP optical module to extend HDMI signal to 20km (single mode) with non-destructive, Using a single fiber bidirectional LC interface to transmit optical fiber lines is low cost and more stable signal transmission. Supports 4K@60Hz 4:4:4 HDR video transmission, it can extended output and an independent audio separation output, Suitable for professional settings including broadcast production, integrated conference systems, and HD surveillance applications.



Features :

- * Support HDMI 4K@60Hz/ HDCP 2.2/2.3/ HDCP 1.4 ;
- * Support 7.1 channels
- * Support 3.5mm stereo output;
- * Supports HDR (HDR10/HDR10+/Dolby Vision/HLG);
- * Support for ALLM;
- * Complies with SFP+ MSA and SFF-8472&SFF-8431 standard protocols;
- * Pure hardware design, plug and play, no additional software required.

Specifications :

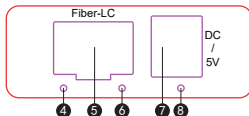
HDMI Input and output resolution	The highest input resolution is 4096×2160@60Hz
Audio format	DTS-HD/Dolby-trueHD/DTS/Dolby-AC3/ATMOS/PCM
Fiber wavelength	1270/1330nm
Fiber transmission distance	Up to 20km
The maximum operating current	0.8A/5VDC (TX), 0.7A/5VDC (RX)
Operating Temperature range	(0℃ ~ +45℃)
Dimension (L x W x H)	89x49x20(mm)*2
Weight	95g*2

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				

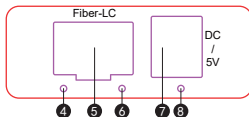
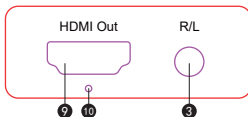
PS: The above data are obtained from the laboratory tests.

Physical interface :

Transmitter:

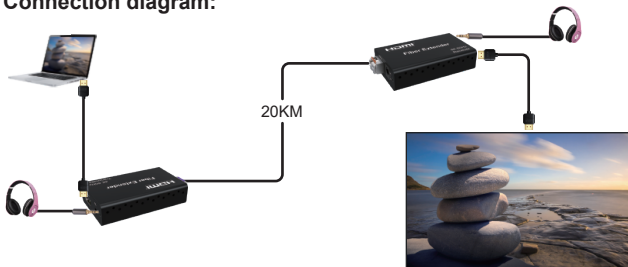


Receiver:



1. HDMI in --- HDMI input
2. HDMI in indicator --- HDMI input Indicator (detects TMDS signal input)
3. R/L --- Left and right channel stereo output (HDMI signal audio separation)
4. LED indicator --- Optical Module Insertion Indicator
5. Fiber-LC --- TX Optical Module Interface/RX Optical Module Interface
6. LED indicator --- TX and RX Optical Module Connection Success Indicator
7. DC/5V --- DC5V input
8. LED indicator --- Power indicator
9. HDMI out --- HDMI output
10. HDMI out indicator --- HDMI output indicator

Connection diagram:



Application scene:



Conference Display



Monitor room



Outdoor Video Wall

Package include:

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