

HDMI 18Gbps Extender with one-way IR (50M)



User Manual

VER 1.0

Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Table of Contents

1. Introduction.....	1
2. Features.....	1
3. Package Contents.....	2
4. Specifications.....	2
5. Operation Controls and Functions.....	3
5.1 Transmitter Panel.....	3
5.2 Receiver Panel.....	4
5.3 IR Pin Definition.....	5
6. Application Example.....	7

1. Introduction

The HDMI 18Gbps Extender can extend high definition video / audio signal and one-way IR, and the distance is up to 164ft / 50 meters between transmitter and receiver over a single Cat5e/6 cable. It supports resolution up to 4K2K@60Hz 4:4:4, 18Gbps and HDCP 2.2. In addition, the extender is equipped with one-way IR pass-through which allows for source control and one HDMI loop output.

The extender includes two units: transmitter unit and receiver unit. The transmitter unit is responsible for capturing HDMI input signal and carries the signal via one cost effective Cat6 cable, and emitting IR control signals. The receiver unit is responsible for receiving the HDMI signal and transmitting IR control signal.

The extender offers the most convenient solution for HDMI extension over a single Cat5e/6 with long distance capability, and is the perfect solution for any application.

2. Features

- ☆ HDMI 2.0, HDCP 2.2 / HDCP 1.4 and DVI 1.0 compliant
- ☆ Supports 18Gbps bandwidth
- ☆ Supports input and output video resolution up to 4k2k@60Hz 4:4:4, extends distance up to 164ft / 50 meters
- ☆ Supports one HDMI loop output
- ☆ Supports one-way IR pass-through
- ☆ Supports HDR function
- ☆ Supports PoC (Power over Cable) function, it means that either transmitter or receiver is powered supply by 12V/1A power adapter, the other doesn't need power supply.)
- ☆ Supports automatic copy EDID function
- ☆ Compact design for easy and flexible installation.

3. Package Contents

- ① 1× HDMI 18Gbps Extender (Transmitter)
- ② 1× HDMI 18Gbps Extender (Receiver)
- ③ 1× IR Blaster cable (1.5 meters)
- ④ 1× 20~60KHz IR Receiver cable (1.5 meters)
- ⑤ 1× 12V/1A Locking Power adapter
- ⑥ 4× Mounting Ears
- ⑦ 1× User Manual

4. Specifications

Technical	
HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.2 / HDCP 1.4
Video Bandwidth	18Gbps
Video Resolution	Up to 4K60Hz 4:4:4
Color Space	RGB / YCbCr 4:4:4, YCbCr 4:2:2/4:2:0, YUV 4:4:4
Color Depth	8/10/12-bit (1080P60Hz, 4K30Hz, 4K60Hz YCbCr 4:2:2/4:2:0) 8-bit (4K60Hz 4:4:4)
HDMI Audio Formats	LPCM 2.0/2.1/5.1/6.1/7.1, Dolby Digital, Dolby TrueHD, Dolby Digital Plus(DD+), DTS-ES, DTS HD Master, DTS HD-HRA, DTS-X
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connections	
Transmitter	Inputs: 1x HDMI Type A [19-pin female] 1x SERVICE [Micro USB, Update port] Outputs: 1x HDMI Type A [19-pin female] 1x IR OUT [3.5mm Stereo Mini-jack] 1x CAT OUT [RJ45, 8-pin female]
Receiver	Inputs: 1x IR IN [3.5mm Stereo Mini-jack] 1x CAT IN [RJ45, 8-pin female] 1x SERVICE [Micro USB, Update port] Outputs: 1x HDMI Type A [19-pin female]