DIGITUS®

HDMI over Fiber Optic Extender Rev. 2

User Manual

DS-55126

Introduction

This HDMI over fiber optic incorporates over IP transport technology. The extender set consists of an optical transmitter module that converts the HDMI signals into light pulses for transmission over a single strand of Multi-Mode or Single-Mode optical fiber cable. An optical receiver module converts the light pulses back to an HDMI signal for display on a monitor or projector. It allows you to extend up to 40 km long distance between the source device and display monitor via optical cable. It also supports IR pass back function. It can be widely applied in video conference, medical system, shopping mall, multimedia presentation…etc. filed.

Important safety notice

Please read below safety instructions carefully before installation and operation:

- Please pay attention to all the warnings and hints on this device
- Do not expose this unit to rain, moisture and liquid
- Do not put any stuff into the device
- Do not repair or open this device without professional people's guidance
- Make sure good ventilation openings to avoid product overheating damage
- Shut off power and make sure environment is safe before installation
- Do not plug-in/out the network cables and IR cables when it is in using to avoid cables damage
- Use DC5V only. Make sure the specification matched if using 3rd party DC adapters

Features

1. Support Single mode fiber optic transmission.
2. No need extra installation driver
3. Transmit 1080p signal up to 40km
4. Support IR pas back for easy control
5. Avoid the electromagnetic interference in environment for long distance transmission
6. Low signal loss, wide frequency band and strong anti-interference
7. High-end aluminum alloy enclosure design
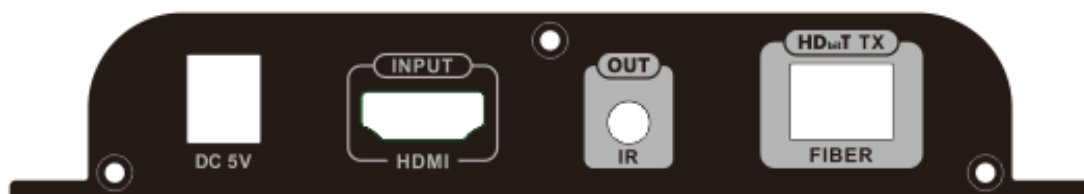8. Wall-mountable design for convenient installation

Package Contents

- HDMI extender TX x1
- HDMI extender RX x1
- DC5V2A x1
- IR blaster extension cable x1
- IR receiver extension cable x1
- User's manual x1

Installation Requirements

1. Source device with HDMI output port
   (computer graphics card, DVD, PS3, HD monitor equipment etc)
2. Display device with HDMI input port (HDTV, projector)
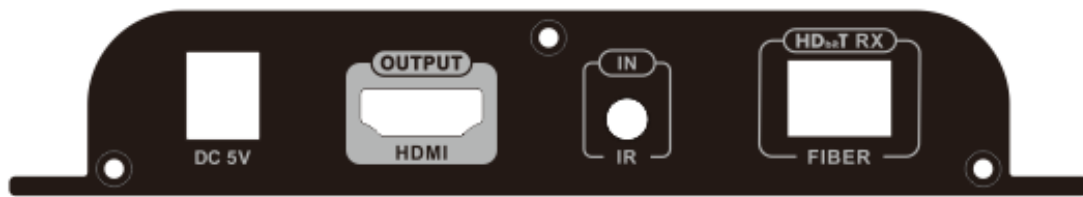3. HDMI cable and single mode fiber optic cable

Panel Descriptions
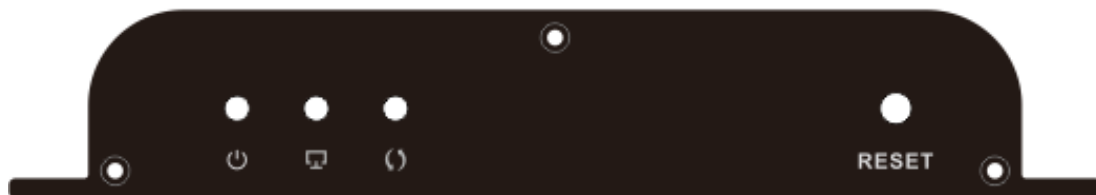
1. Rear panel of HDMI extender TX

① Power Input (DC 5V)

② HDMI signal input

③ IR blaster extension cable port

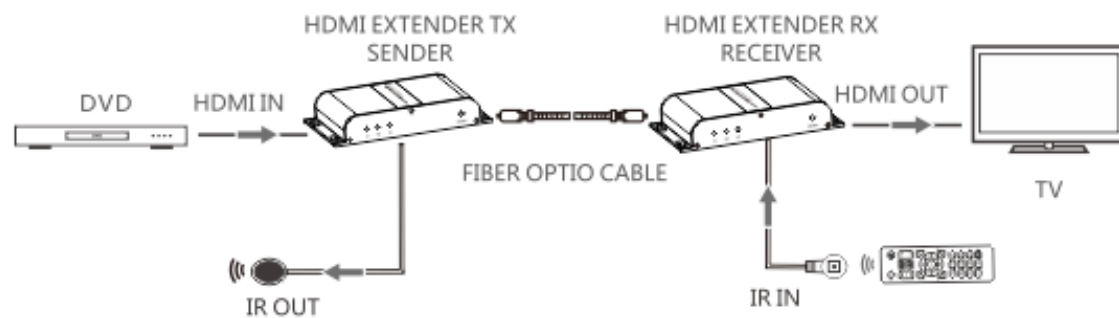④ Fiber optic signal send port

2. Rear panel of HDMI extender RX

① Power Input (DC 5V)

② HDMI signal output

③ IR receiver extension cable port

④ Fiber optic signal receive port

3. Front Panel of TX and RX

① Power status indicator

② Network connection indicator

③ Data transmission indicator

④ Reset button

Connection and operation

FAQ

Q: TV display "waiting for connection" on the bottom right corner?

A: Please check if the power supply of TX (sender) and the fiber optic cables are well connected.

Q: TV display "Please check the TX input signal"?

A: 1) Please check if there is an HDMI signal input of sender TX.

2) Try to connect the source device directly with display device to see If there is signal output from source device or change the source device and HDMI cables to retest.

Q: Display not fluent and stable?

1) Click "reset" button on the TX/RX panel or reconnect power.

Specifications

Specification DS-55126	
HDMI signal	Full compatible with HDCP
Support resolution	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz
DDC signal voltage	5Vp-p(TTL)
TMDS bandwidth	10.2Gpbs
Wave length	Transmitter: 1310nm /1550nm Receiver: 1550nm/ 1310nm
Transmission distance	1 ~ 40km
Link loss	≤14dB
Output light power	≥-11dBm
Receive sensitivity	≤-32dBm
Return loss	15dB
IR remote control	Support 20~60KHz IR remote control
Power supply	DC5V/2A x2pcs
Power consumption	TX<4W RX<3.5W
Working temperature	0℃ ~ 60℃
Enclosure material	Aluminum alloy
Product dimension	138x81.5x24 (WxDxH) x2pcs
Weight	TX:178g RX:177g
Color	Black

Disclaimer:

The product name and brand name may be registered trademark of related manufacturers.TM and ® may be omitted on the user manual. The pictures on the user manual are just for reference, and there may be some slight difference with the real products.

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This is a Class A product. In home environment, this product may cause radio interference. In this case, the user may be required to take appropriate measures.

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