

# HDMI Extender Over Fiber

## User Manual

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

### Overview:

The kit comes as a pair, with one Sender unit(marked with Sender) and one Receiver(marked with Receiver) unit.

This DFO-3H HDMI extender allows you to transmit HD 1920\*1080P@60Hz video signals to distances up to 20km using a single-mode fiber cable or up to 2km using a multi-mode fiber cable.

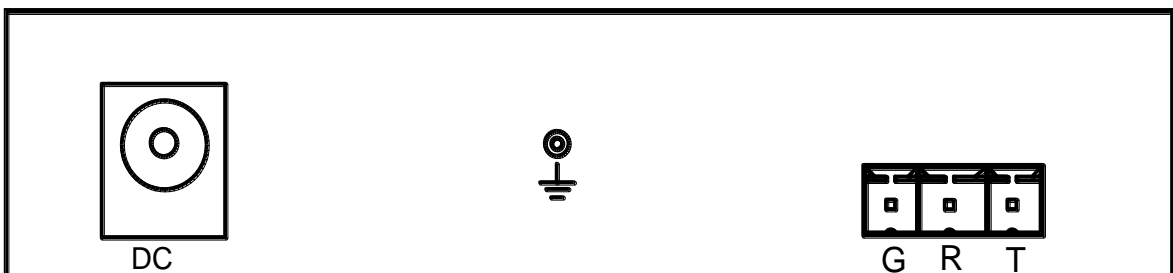
Ideal for Military Command and Control systems , public safety management systems, traffic control systems, energy and electric power supply, government departments, health care systems, trade fairs, multi-media halls, public utilities applications etc.

### Panel description:

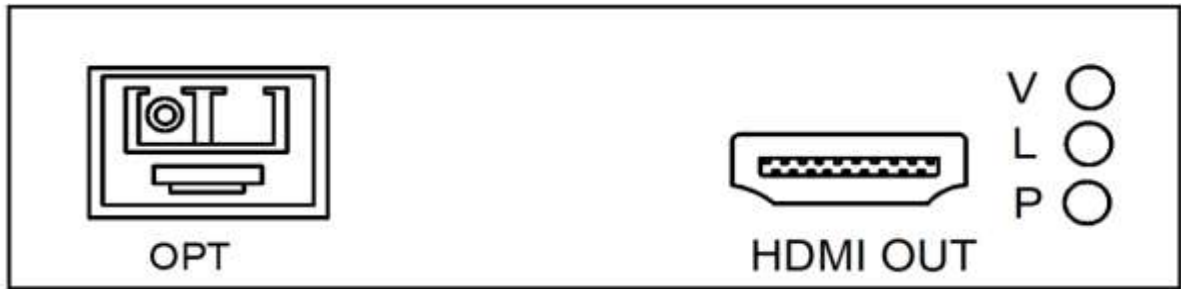
Front panel of Sender:



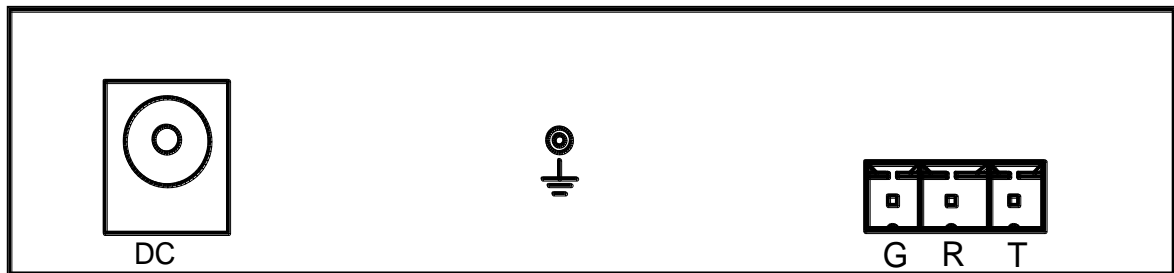
Rear panel of Sender:



Front panel of Receiver:



Rear panel of Receiver:



Product component introduction:

Device	Connector	Functions
<b>Sender</b>	DC	Connect to included power adapter
	G R T	Without actual function
	HDMI IN	HDMI signal input to connect with HDMI source device
	OPT	Connector for optical fiber cable
<b>Receiver</b>	DC	Connect to included power adapter
	G R T	Without actual function
	HDMI OUT	HDMI signal output to connect with HDMI display device
	OPT	Connector for optical fiber cable

LED indicators:

Device	Indicator	Color	Status	Remark
<b>Sender</b>	P	Red	Solid bright	The unit is powered on
			Off	No power supplied to the Sender unit
	V	Yellow	Blinking	Proper functioning
			Off	No HDMI signal input
			Solid bright	HDMI video signal can be detected by the Sender
<b>Receiver</b>	P	Red	Solid bright	The unit is powered on
			Off	No power supplied to the Receiver unit

	L	Green	Blinking	Proper functioning
	V	Yellow	Off	No HDMI signal input
			Solid bright	HDMI video signal can be detected by the Receiver

## **Features:**

1. Extends HDMI signals up to 20km via single-mode fiber cable or up to 2km via multi-mode fiber cable;
2. Uncompressed audio and video at zero latency;
3. Supports video resolutions up to 1920\*1080P@60Hz;
4. HDMI1.3 and HDCP1.2 compliant;
5. Hot-pluggable SFP module;
6. Compatible with DVI signals when using an HDMI-to-DVI adapter;
7. Premium metal housing offers excellent heat dissipation, enhances durability, and minimizes EMI/RF interference for long life and dependable performance
8. Plug and play installation, no software or driver needed;
9. Integrated surface mounting bracket allows secure placement;
10. We provide a one-year limited warranty with free lifetime technical support.

## **Specifications:**

<b>Function</b>	Input signals	1channel HDMI
	Output signals	1channel HDMI
	Transmission distance	Single-mode fiber: 0-20km Multi-mode fiber: 0-2km
<b>Video</b>	I/O	HDMI
	HDMI version	HDMI1.3
	HDCP version	HDCP1.2
	Video resolutions	1080p/1080i/720p/720i/576p/576i/480p/480i
	Color depth supported	24-bit/30-bit deep color/36-bit deep color
	Supported audio formats	DTS/HD/Dolby-tureHD/LPCM7.1/DTS/Dolby-A C3/DSD
	TMDS	0.5-1.5Vp-p(TTL)
	DDC	5Vp-p(TTL)
<b>Cabling</b>	Type	SM/MM fiber cable, LC connector
	Wavelength	850nm/1310nm/1550nm
<b>General</b>	Dimensions(L x W x H)	Sender: 120mm×106mm×30mm Receiver: 120mm×106mm×30mm
	Housing enclosure	Aluminum
	Colors available	Black
<b>Power</b>	Power supply	Input: AC110V-220V, 50/60HZ

		Output: DC9-12V/1A
	Power consumption of Sender	4W
	Power consumption of Receiver	4W
<b>Operating environment</b>	Working temperature	-15°C-55°C
	Storage temperature	-40-80°C
	Humidity	0-95% (non-condensation)

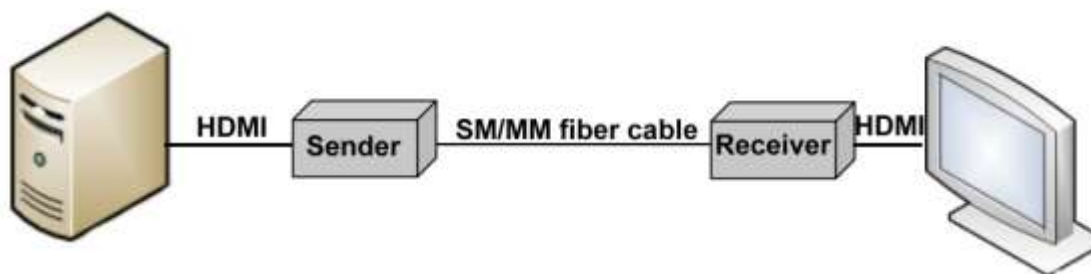
### Package contents:

Please take an inventory of the package contents to ensure you have all the items listed below. In the unfortunate situation that a shortage is incurred or the products are damaged in shipping, please contact us in time.

No.	Product name	Quantity	Remark
1	Sender unit	1pc	Default
2	Receiver unit	1pc	Default
3	HDMI extension cable	1pc	Default
4	DC power adapters	2pcs	Default
5	User manual	1pc	Default
6	Warranty card	1pc	Default

### Connecting Directions and Operation:

#### 1. Connection diagram:



#### 2. Installation procedures:

Make sure you have all the cables needed, power off the all the connected devices including your HDMI video source and HDMI display. Then, do the following:

##### **Step1:**

Connect your HDMI source to the Sender's "HDMI IN" connector with an HDMI cable (included).

##### **Step2:**

Connect an SM/MM fiber cable to the OPT connector on the Sender unit. Plug one of the included power adapters into the DC power jack of the Sender, then plug the power adapter into any reliable power sources.

**Step3:**

Connect your HDMI display to the Receiver's "HDMI OUT" connector with an HDMI cable.

**Step4:**

Connect the other end of the fiber cable to the OPT connector on the Receiver Unit. Plug the second power adapter into the DC power jack of the receiver, then plug the power adapter into any reliable power sources.

**Step5:**

Power on all the connected devices. Now, the HDMI extender is ready to use.

**Warranty and after-sales services:**

Thank you for purchasing our product, now you can enjoy our lifetime warranty service.

**1.Our Commitment**

- We provide a one-year limited warranty from the date of purchase for all of our products. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only.
- We provide lifetime repair service. Warranty does not apply, if the product has been modified or repaired by any unauthorized service center or personnel.
- This warranty strictly does not cover damages that arose from negligence, misuse, wear and tear, or not in accordance with product instructions (dropping the product, etc.).

**2. Please note:**

- Please call your local distributors to ask for a repair if you discover that something you bought is defective.
- If you can't contact the distributor immediately, please contact us directly requesting a repair service. Our experienced team will help solving the problems as soon as possible.
- Please provide a valid proof of purchase (receipt or invoice of purchase) for repair/replacement service.