



User Manual



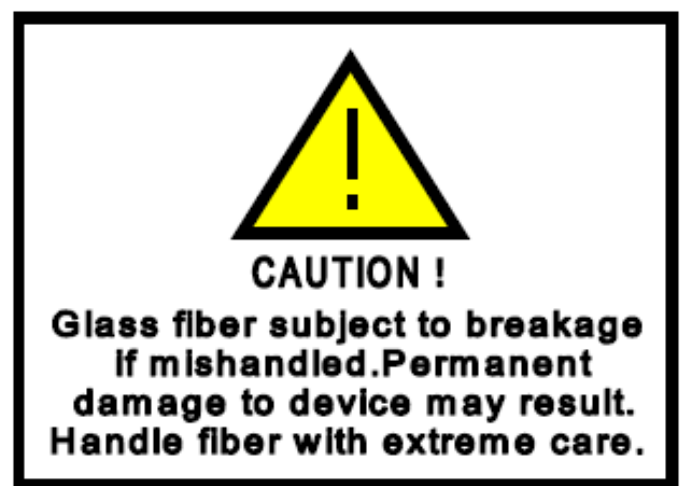
Mini HDMI over Fiber Extender

VOS-HDMI-T/R-Mini

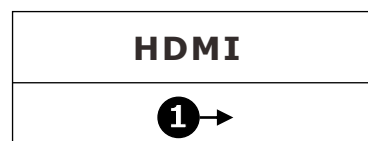
1-Channel HDMI over Fiber

HDMI 2.0, 4K 60Hz (4:2:0)

1. Read these instructions. Keep these instructions. Heed all warnings. Follow all instructions.
5. Do not use this apparatus near water. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the points where they exit from the apparatus.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases shall be placed on the apparatus.
15. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
16. Installation should be done only by qualified personnel and conform to all local codes.
20. **CAUTION:** These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.



VOS-HDMI-T/R-Mini can transmit your HDMI signal up to 1km over single-mode fiber, or up to 300 m over multi-mode fiber. requires no adjustments, equalization or de-skewing during installation. plug and play connection between Apple TV 4K, Fire TV Stick 4K,nVidia Shield TV, game console, or other professional video.



The Fiber Extender support HDMI 2.0, resolution up to 4K 60Hz (4:2:0), 4K 30Hz (4:4:4), Backward compatible. EDID is managed by maintaining continuous EDID communication with the source, ensuring that it powers up properly and maintains video output. For HDMI signals with protected content, continuously authenticates HDCP compliance to support quick and reliable transmission, desinged to solve the installers common problems with long distance transmission.

Features:

- Support uncompressed HDMI 2.0, HDCP 2.2, up to 10.2Gbps
- Support 4K 60Hz (4:2:0), 4K 30Hz (4:4:4), Backward compatible
- Dual EDID modes (built-in + manual learning) with button switching
- Support EDID memory retention after power-off
- Support Sing-mode 1km or Multi-mode 300m
- Support lossless embedded audio like Dolby TrueHD and TDS-HD

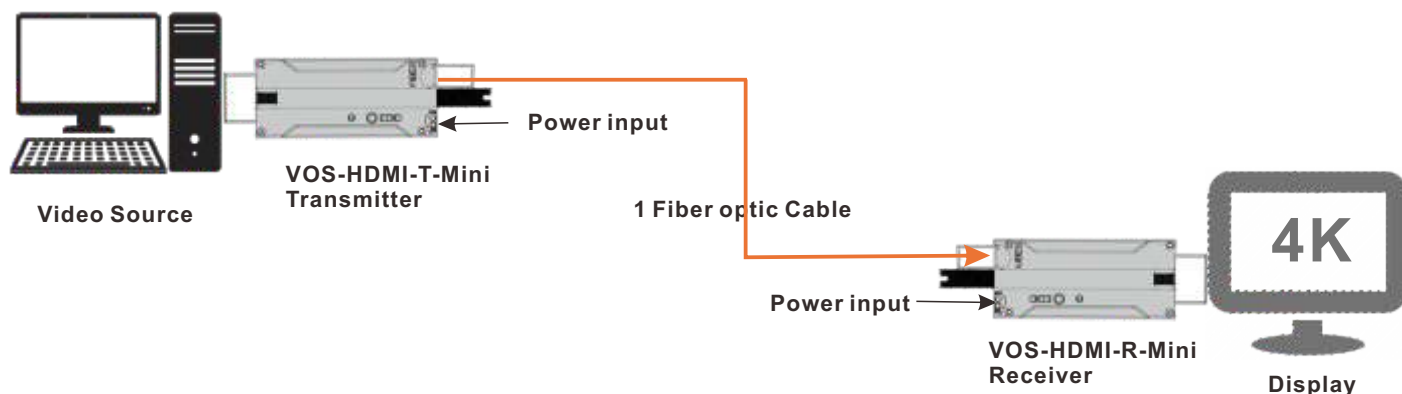
Ordering Information

Part Number	Description
VOS-HDMI-T/R-Mini	1-Channel uncompressed HDMI 2.0, Trasnmitter & Receiver 4K@60Hz 4096×2160, 3840x2160 (4:2:0), 4K@30Hz 4096×2160, 3840x2160 (4:4:4 / 4:2:2 / 4:2:0), 1080p

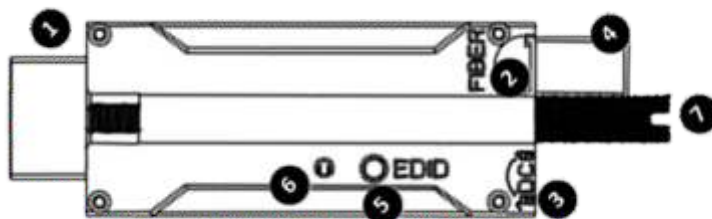
Specification

• HDMI	• Electrical & Mechanical
HDMI Version: HDMI 2.0 HDMI Connector: 19 pin HDMI Type A Male Data Rate: 10.2Gbps Compliance: HDCP 2.2 Max Resolution: 4K 60Hz 4:2:0 4K 30Hz 4:4:4 (Backward compatible)	Power Supply: DC5V Power Connector: DC 3.5 x1.35mm Power Consumption: <1.5W Dimensions: 60mm x 22mm x 17mm Shipping Weight: 0.1kg
• Optical	• Environmental
Connector: LC (one core) Fiber Type: Single-mode 1km, Multi-mode 300m Tx Output Power: >-3dB Receiver Sensitivity: >-10dB	Operating Temperature: -10°C ~ +65°C Storage Temperature: -20°C ~ +85°C Relative Humidity: 0%~95% (non-condensing) MTBF: >100,000 hours

Typical Configuration



Panel



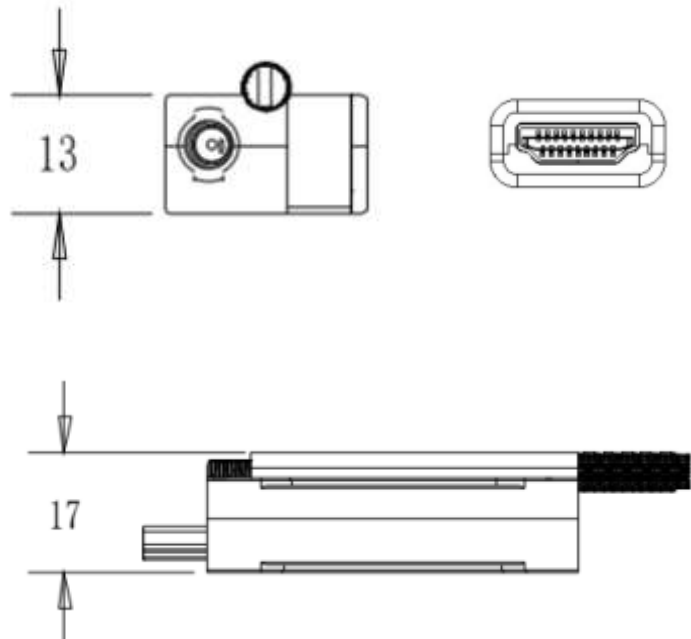
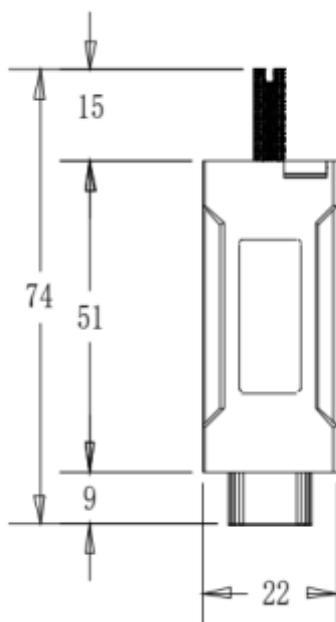
- ❶ HDMI 2.0 male Connector: Transmitter (Input), Receiver (Output)
- ❷ Fiber Optic Connector: Fiber In/out, LC Connector (Single-Core)
- ❸ Power supply Connector: DC 3.5*1.35mm
- ❹ Fiber optic dust cap
- ❺ Reset Button: EDID learning (The default is the built-in EDID)
 - 1: Press and hold the transmitter's RESET button for 3 seconds until the EDID flash. Release the RESET button, and the device will enter the EDID learning function.
 - 2: Press and hold the transmitter's RESET button for 10 seconds until the EDID flash. Release the RESET button, and the device will restore to default built-in EDID mode.
- ❻ LED
- ❼ HDMI mounting screw

Note: Only the transmitter with EDID button.

LED Status

Indicator Status	Connect Power	Connect Fiber	Connect HDMI
Transmitter LED	Red	Red	Purple
Receiver LED	Red	Purple	Purple

Panel Drawings



Attention:

Lightning, Static & Grounding:

- Ensure lightning protection, proper grounding, and static prevention during installation.
- Strong static can damage optical components and data chips: Disconnect power before plugging/unplugging data ports.
- Device housing is not waterproof; use a fully waterproof installation box.

Fiber & Optical Components:

- Handle with care—optical components are fragile.
- Optical sources are harmful to eyes: Do not look directly at them. Use an optical power meter for testing.
- Insert into the optical interface only after confirming the fiber link meets requirements.

Warranty Introduction

All VOSCOM manufactured products are warranted to be free from defects in manufacturing and materials for the warranty term of **3 years**. VOSCOM will repair or replace any equipment or parts proved to be defective during the term of the warranty.

VOSCOM shall not be obligated to replace or repair equipment that has been damaged by fire, war, acts of God, or similar causes, or equipment that has been serviced by unauthorized personnel, altered, improperly installed or abused.

This Return and Warranty Policy Statement applies to VOSCOM equipment purchased directly from VOSCOM OPTICAL CO.,LTD. If you did not acquire the VOSCOM equipment directly, return the equipment to the place of purchase.

Returning VOSCOM products

Before you can return any product to VOSCOM, you must obtain a Return Material Authorization (**RMA**). This applies to all product returns, including warranty repair/replacements, nonwarranty repairs, advance replacements, and credit returns.

To obtain an RMA, (Download from www.voscom.com), and please complete the RMA as much detail as possible, then send the RMA to our customer service support:

TEL: +86-571-87389390

E-mail: support@voscom.com

Customer Service will provide you with an RMA number and an RMA acknowledgment form that confirms your request.

Once you have the RMA, repackage the product appropriately and attach the RMA acknowledgement form on the outside of the package. Then send the product to the return location given by the customer service center.

All products must be returned **freight prepaid** within 30 days of obtaining an RMA. We reserve the right to cancel the RMA after 30 days. If you fail to return the product within the 30 days, please contact Customer Service to get a new RMA.

We will not accept unauthorized returns or freight collection returns; we will return these to you at your expense.

If a returned product contains parts that are no longer available or repairable, we will contact you to discuss resolution and return of the material.

Warranty repair/replacements

Subject to the terms of the limited warranty in effect at the time of purchase, VOSCOM will repair or replace a product that fails to meet the terms provided, within the product's warranty period. The actual warranty period starts from either:

- a):** The date of shipment from VOSCOM's facility (point of origin)
- b):** The manufacturer's date code (if the shipment date is unknown).

For all warranty repairs, VOSCOM will cover parts and labor. We will return equipment via the same incoming shipment method at no additional charge.

Non-warranty repairs

For all non-warranty repairs, VOSCOM will provide you with a repair estimate that includes charges for parts, labor (in half-hour increments), and all shipping. Repair charges may be based on a flat rate or parts and labor, and will vary based on actual equipment and condition. You may pay for non-warranty repair charges by purchase order.

Advance replacement

Advance replacement products are new or like-new refurbished products and carry a full original equipment warranty. VOSCOM will send advance replacement product to replace defective equipment that has failed upon initial install for up to 60 days from the original date of shipment. We will ship advance replacements in the next business day.

Our repair department will evaluate the returned product to determine whether it is a warranty or non-warranty replacement and bill you accordingly. We will invoice advance replacements at shipment and credit you upon receipt of the defective product. If we determine, however, that the returned product is in good working order or that performance issues were due to improper installation, misuse, abuse, or other user-related causes, we will issue no credit and you will remain responsible for paying the invoice.

Note: Advance replacement is not available for custom products.

Credit returns

VOSCOM will refund or credit new, standard production items that are unused and in the original unopened shipping cartons for a period of 60 days from the original date of shipment. All returned merchandise is subject to a 20% restocking fee. Products that have failed upon initial install within 60 days from the date of shipment (or date of manufacture if shipment date is unknown) may be returned for credit without a restocking fee. (Products purchased as part of a kit must be returned through *Advance replacement*.)

As with advance replacements, if we determine that the returned product is in good working order or that performance issues were due to improper installation, misuse, abuse, or other user-related causes, we will issue no credit and you will remain responsible for paying the invoice.

Note: Credit is not available for custom products.

Manufacture Packing List:

Fiber Optic Transmitter	1
Fiber Optic Receiver	1
Power Adapter	2
User Manual	1

Note:

- 1):** VOSCOM reserves the right to change specifications without notice.
- 2):** You can download the latest PDF document here: www.voscom.com
- 3):** Online Technical Support please E-mail: support@voscom.com
- 4):** More detail product information please E-mail: sales@voscom.com, or contact with our sales staff.
- 5):** Return defective products please download RMA here: www.voscom.com
- 6):** Get an acknowledgment RMA number please complete the RMA as much detail as possible and then E-mail: support@voscom.com or TEL: +86-571-87389390

WARNING

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

DO NOT LOOK INTO OPTICAL PORTS WITH POWER ON.

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