

HDMI Fiber Optic Cable

User Guide



1. Product Description

Thank you for purchasing this HDMI Fiber Optic Cable. This cable is capable of transmitting digital HDMI (or DVI) signals from a source, such as a DVD player or a set-top box, to a display, such as an HDTV set or projector, over great distances (up to 100 meters) without any loss in picture quality.

Electronics inside the cable convert the electrical HDMI signals from the source into high speed optical signals, which are transmitted over optical fibers imbedded within the cable. At the display side of the cable, the optical signals are converted back into electrical signals for connection to a display with an HDMI (or DVI) input.

2. Product Safety

- **Do not dismantle the housing or modify the product**

Dismantling the housing or modifying the product will void the product's warranty and may result in electrical shock or burns.

- **Refer all servicing to qualified service personnel**

Do not attempt to service this product yourself as opening or removing housing may expose you to dangerous voltage or other hazards.

- **Keep the product away from liquids**

Avoid spilling liquids into the product's housing as it may result in fire, electrical shock, or damage to the product or other equipment. If an object or liquid falls/spills into the housing, unplug the product immediately. Have the product checked thoroughly by a qualified service engineer before using it again.

- **Do not touch the product with wet hands**

Touching the housing and plug with wet hands is dangerous and can cause electrical shock.

- **Observe proper handling precautions with this cable**

Avoid pulling on this cable with too much force or exceeding the minimum bend radius as this can degrade the optical performance and may result in failure of the cable. Please adhere to the mechanical specifications for this product to ensure the highest level of performance and reliability.



3. Package Contents

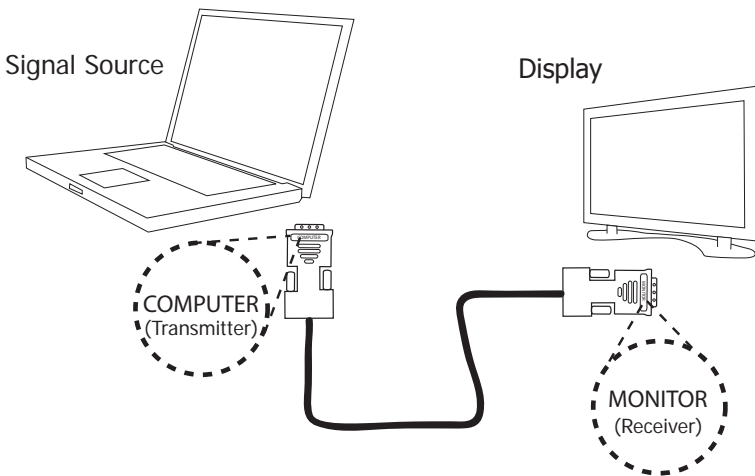
Before you start installing the cable, please check the package contents. It should contain:

- One HDMI fiber optic cable
- One External Power Adapter (+5VDC ,1.2A)
- Two copper male to male HDMI cables (0.5 meter length)
- User Guide

4. Getting the Best Result

This cable has a **Transmitter** module at one end that converts the HDMI input signal from the source to an optical signal. At the other end of the cable a **Receiver** module converts the optical signal back to an electrical signal for connection to an HDMI compatible display.

Please note that this cable is UNIDIRECTIONAL and will not function if connected in the wrong direction. Please refer to the illustration below.

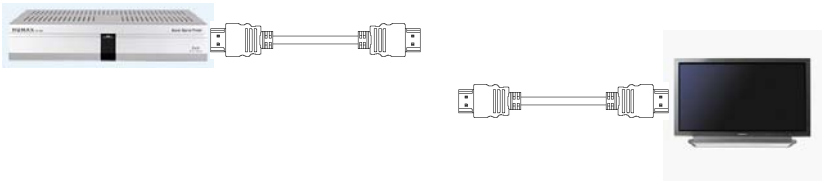


5. Features

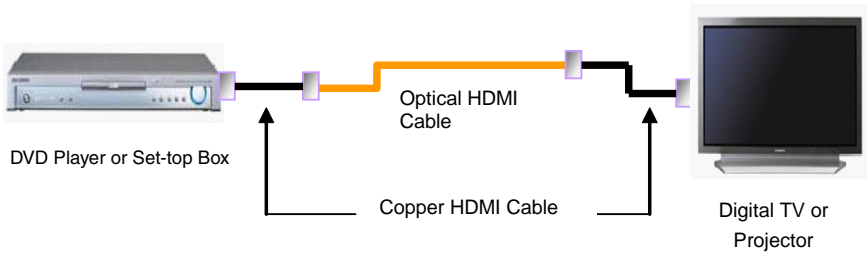
- Extends HDMI signal connections using optical technology up to 100 meters (330 ft)
- Single-link interface using HDMI Type A connector
- Compatible with HDMI standard 1.0
- Supports HDCP-compliant devices
- Supports HDTV resolutions up to 1080p, as well as PC resolutions up to UXGA (1600x1200) and W-UXGA (1920x1200).
- Automatic switching between internal and external power.

6. Installation and Operation

1. Power OFF the source (such as a DVD player or set-top box), and the display (such as an HDTV or projector).
2. Connect the short HDMI copper cables supplied with this product to both the display and the source.



3. Connect the short copper cable already connected to the source to the Transmitter module on the fiber optic cable.
4. Connect the other short copper cable attached to the display to the Receiver module on the fiber optic cable.



5. Power ON the source and check to see the LED light on the Transmitter module is fully illuminated.
6. Power ON the display.
7. Even if the red LED is lit, the power level to properly activate the fiber optic cable can be insufficient. If an image is not visible on the display after the power is turned on, then connect the supplied External Power Adapter to jack on the Transmitter module.

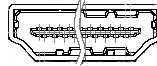
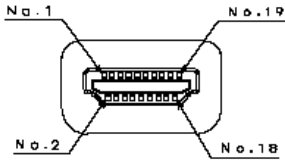
Indicators

Power LED: Located on the top surface of the Transmitter module, this light indicates that the HDMI cable is receiving power from the display source, or from the External Power Adapter.

Operation with DVI Sources and Displays

DVIGear's HDMI Fiber Optic Cable, is backward compatible with DVI standard 1.0. If you would like to use this cable with a display or source that uses a DVI connector, a DVI to HDMI copper cable is required for the interconnection. In this configuration, no audio signal will be available since the DVI standard does not support audio.

7. HDMI Connector Pin Assignments



HDMI Type A Receptacle

HDMI Type A Receptacle

HDMI Pin No.	Signal
1	TMDS Data 2+
2	TMDS Data2 Shield
3	TMDS Data 2-
4	TMDS Data 1+
5	TMDS Data 1 Shield
6	TMDS Data 1-
7	TMDS Data 0+
8	TMDS Data0 Shield
9	TMDS Data 0-
10	TMDS Clock+
11	TMDS Clock Shield
12	TMDS Clock-
13	CEC
14	Reserved (N.C. on device)
15	SCL
16	SDA
17	DDC/CEC Ground
18	+5V Power
19	Hot Plug Detect



9. FCC Conformity

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interface.
2. This device must accept any interface received, including those that may cause an undesired operation.

CAUTION: Any changes or modification in the construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

10. Troubleshooting

- Make sure the source device (PC, DVD player, etc.) is powered ON.
- Ensure that the cable connection to the source and the display is correct such that the Transmitter module is connected to the source and the Receiver module is connected to the display.
- Re-boot the PC, or cycle the power to the source device OFF and ON.
- Connect the supplied External Power Adapter to the receptacle on the Transmitter module.

If the problem is not solved by any of the above measures, please contact DVI Gear technical support at support@dvigear.com, or by phone at 888.463.9927, or 770.421.6699



11. Warranty

DVIGear warrants the equipment it manufactures to be free from defects in material and workmanship. If equipment fails because of such defects and DVIGear is notified within one year from the date of shipment, DVIGear will, at its option, repair or replace the equipment, provided that the equipment has not been subjected to mechanical, electrical, or other abuse or modifications. Equipment that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of the repair. Such repairs are warranted for ninety days from the day of re-shipment to the buyer.

This warranty is in lieu of all other warranties expressed or implied, including without limitation, any implied warranty or merchantability or fitness for any particular purpose, all of which are expressly disclaimed. The information in this manual has been carefully checked and is believed to be accurate. However, DVIGear assumes no responsibility for any inaccuracies that may be contained in this manual.

In no event will DVIGear be liable for direct, indirect, special, incidental, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. The technical information contained herein regarding the product features and specifications is subject to change without notice.



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