



DIREKTRONIK

One (1) fiber Detachable HDMI Extender



*User's Manual for the
25-0626 HDFX-200-TR*



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Welcome!

Congratulations on your purchase of the one (1) fiber HDMI extender, HDFX-200-TR. This manual contains information that will assist you in installing and operating the product.

Product Description

The HDFX-200-TR transmits WUXGA (1920x1200) at 60Hz or 1080p at 60Hz refresh ratio up to 300meters (985feet) over one (1) LC Multi-mode fiber. It has HDMI receptacle and provides intermediate cable to be connected to various types of HDMI connectors. It passes CEC, EDID & HDCP (High Definition Contents Protection) for better installation flexibility and supports 3D contents transmission.

The HDFX-200-TR can be operated by DC power and also Receiver (Rx) can be operated by USB power by plugging the USB cable included as a shipping group.

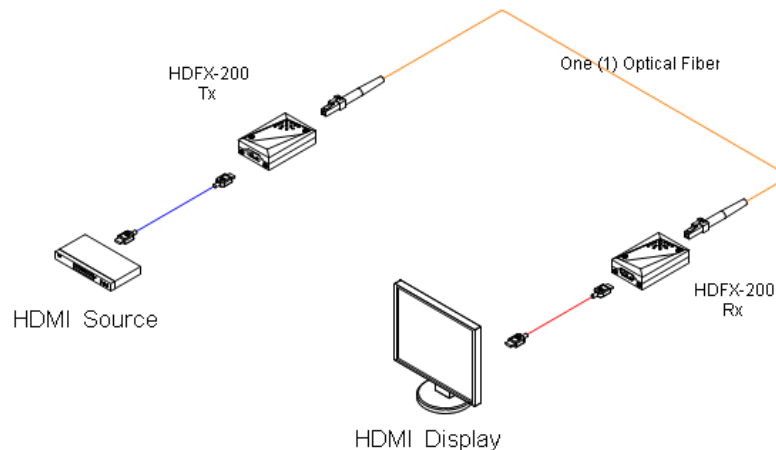


Figure 1 – Overall Connection of Optical HDFX-200-TR

The Shipping Group of HDFX-200-TR;

- One (1) Transmitter (Tx) and One (1) Receiver (Rx)
- Two (2) HDMI copper cables (0.3m)
- Two (2) DC +5V,1A power adapters
- User's Manual
- Option Product:** LC Multi-mode fiber

1-1 Welcome, Product Description

System Requirements for Setup

- Hardware requirements**
 - DVD, Blu-Ray or media receiver with standard HDMI ports.
 - In case of using PC as a graphic source, regardless of OS version embedded HDMI ports.
 - Only HDMI TVs or monitors are applicable.
 - Proper initial trial of the entire platform with its application using a short length copper cable is recommended prior to install with the optical link.
- Software requirements**
 - No special needs, but make sure that media contents protected by HDCP should be played with HDCP certified players and TVs.
- AC/DC Power Adapter Technical Advisory**
 - Enclosed Power Adaptor supply power to both (Tx) and (Rx).
- Connection Advisory**
 - It is highly recommend that HDMI media source is directly connected into HDMI display output via HDFX-200-TR without connection to incompatible distributor, switcher and selector.

1-2 System Requirements for Setup

Installation

Important: Please keep the installation procedure below. Improper or no operation may result if the start-up sequence is not correctly followed.

Step 1

Carefully unpack the contents in the shipping group.

Step 2

Power on the HDMI source and display. Power on both transmitter and receiver by using DC power adapter or USB power cable to Receiver (Rx).

Note1: Only Receiver (Rx) can be operated by USB power cable.

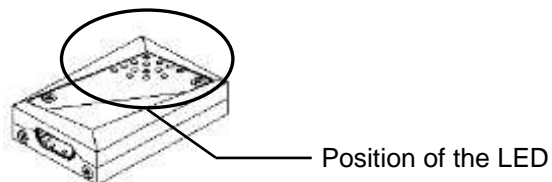


Figure 2 – Position of the LED

Step 3

Connect one (1) LC Multi-mode fiber (50um) between the transmitter and the receiver. Then, the LED Blinking will be stopped, if the connectors are fully engaged.

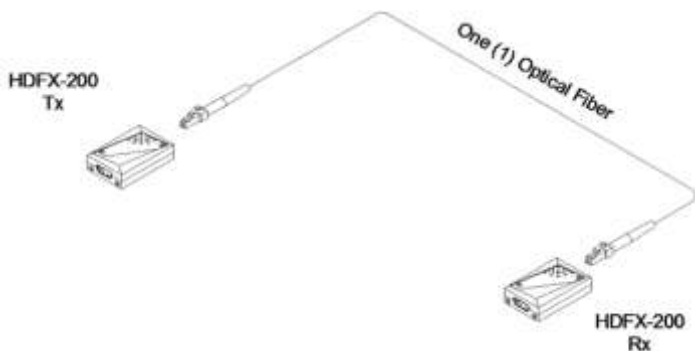


Fig Figure 3 – Connection of optical fiber

Note: The maximum extension length by multi-mode fiber is 300m (985feet).

1-3 Installation

Step 4

Connect the Transmitter to the HDMI sources (DVD, media receiver) over HDMI copper cable.

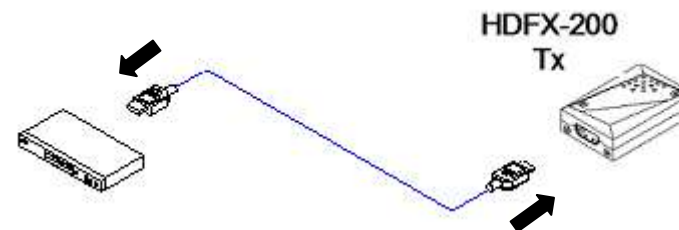


Figure 4 – Connection of HDMI copper cable between Transmitter and media receiver

Step 5

Connect the Receiver to the HDMI display over HDMI copper cable.

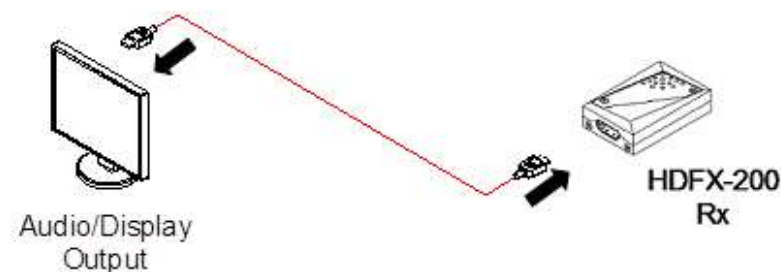


Figure 5 – Connection of HDMI copper cable between Receiver and display

Step 5

Make the source and the display power ON. And ensure that the LED in transmitter and receiver turn on.

1-4 Installation

Troubleshooting

The display shows only black screen.

- Ensure that all plugs and jacks used by external power supplies (both Opticis and others) are firmly connected. Ensure that the LED ON.
- Ensure that the HDMI ports are firmly plugged in to the source and display.
- Ensure that the transmitter and receiver modules plugged correctly to the source and display, respectively.
- Check if the PC and display are powered on and properly booted.
- Reset the system by de-plugging and re-plugging the transmitter HDMI port or receiver HDMI port, or by de-plugging and re-plugging the power plugs of transmitter and receiver modules.
- Re-boot up the system while connecting the optical HDMI extension module.

Screen is distorted or displays noises.

- Check if the graphic resolution is properly set. Go to the display properties and tap the settings. Ensure that the resolution sets less than WUXGA (1920x1200) at 60Hz refresh ratio.
- Reset the system
- Power down, disconnect and reconnect the optical system cable or DC power adaptors, and power up

Maintenance

No special maintenance is required for the optical system cables and power supplies. Ensure that the cables and power modules are stored or used in a benign environment free from liquid or dirt contamination.

There are no user serviceable parts. Refer all service and repair issues to Opticis or its authorized distributor.

Technical Support and Service

For commercial or general product support, contact your reseller. For technical service, contact Opticis by email techsupp@opticis.com or visit its website at www.opticis.com.

Product Specifications

One (1) fiber HDMI Extender, HDFX-200-TR

- **Compliance with HDMI standard:** supports HDMI 1.3a up to 36-bit in color depth, using fiber-optic communication link and fully function in HDCP.
- **Extension limit:**
300 meters (985feet) for WUXGA (1920x1200) or 1080p at 60Hz refresh rate.
- **Fiber-optic Connection:** The transmitter and receiver of HDFX-200-TR have LC fiber-optic connectors and should be used with multi-mode fiber or multi mode fiber (50 μ m)/

- **Mechanical specifications of Tx and Rx boxes**
 - **Dimensions:** 34mm / 52mm / 14.4mm (W/D/H)
- **Environmental Specifications**
 - Operating temperature: 0°C to 50°C
 - Storage temperature: -30°C to 70°C
 - Humidity: 10% to 85%

- **Certifications: CE / FCC**

AC/DC Power Adapter

- **Power Input:** AC 100-240V, 50/60Hz.
- **Power Output:** +5 V, 1A SMPS DC-power Adapter
- **Cord DC Jack:** Core is + 5 V and outer is GND.
- **Certification: FCC, CE**

1-7 Product Specifications

Warranty Information

1 (One) Year Warranty

Opticis warrants this optical HDMI module to be free from defects in workmanship and materials, under normal use and service, for a period of one (1) year from the date of purchase from Opticis or its authorized resellers.

If a product does not work as warranted during the applicable warranty period, Opticis shall, at its option and expense, repair the defective product or part, deliver to customer an equivalent product or part to replace the defective item, or refund to customer the purchase price paid for the defective product.

All products that are replaced will become the property of Opticis.

Replacement products may be new or reconditioned.

Any replaced or repaired product or part has a ninety (90) day warranty or the remainder of the initial warranty period, whichever is longer.

Opticis shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to Opticis for repair under warranty or not.

Warranty Limitation and Exclusion

Opticis shall have no further obligation under the foregoing limited warranty if the product has been damaged due to abuse, misuse, neglect, accident, unusual physical or electrical stress, unauthorized modifications, tampering, alterations, or service other than by Opticis or its authorized agents, causes other than from ordinary use or failure to properly use the product in the application for which said product is intended.

Dispose of Old Electrical & Electronic Equipment

(Applicable in the European Union and other European countries with separate systems)



This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

1-8 Warranty Information

Opticis Locations

Headquarters

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For order support, please contact your Distributor or Reseller.

For technical support, check with the Opticis web site www.opticis.com or
contact techsupp@opticis.com