

Description

HDMI (High-Definition Multimedia Interface) has recently become very popular in the application of video and audio transmission system. In view of the extreme of electrical performances, however, the traditional copper wire cable imposes limits on signal transmission distance and signal quality. In reality, optical fiber is of low dispersion, which in turn has the strength of longer signal transmission distance and better signal transmission quality in comparison to the traditional copper wire cable. "Do-In Instruments" Optical HDMI Transceiver uses 2-cores multimode fiber without any copper wire inside, where radio frequency interference phenomenon is literally ruled out, which shows the advantage of high performance and good signal quality as well as low cost.

Features

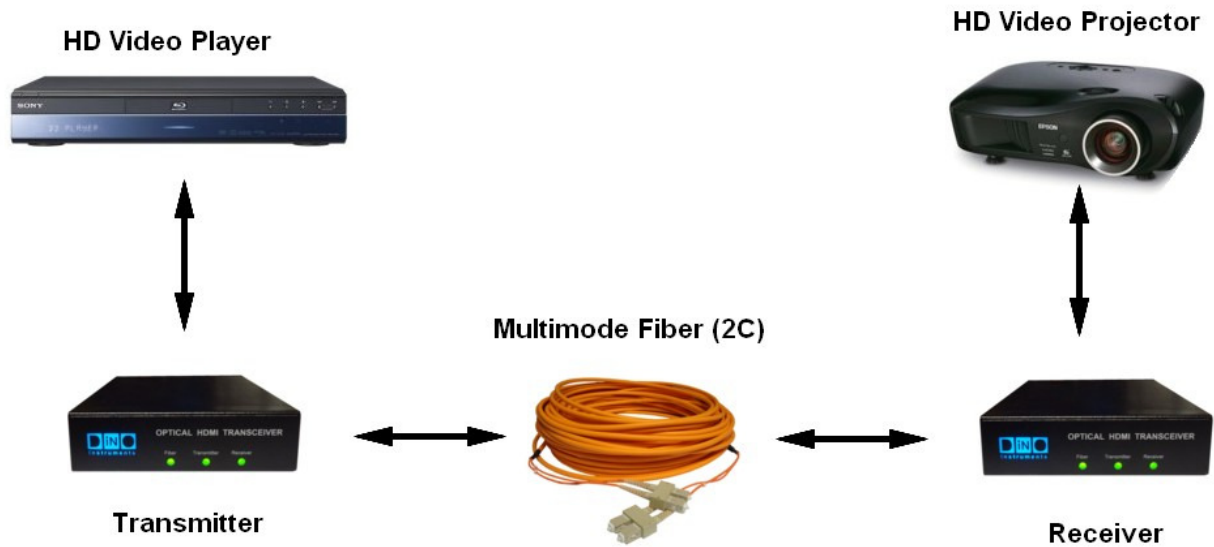
- Long distance video and audio transmission, maximum distance up to 200M.
- High resolution and image quality, supports Deep Color & x.v.Color .
- HDCP fully compliant, no extra copper wire needed for DDC.
- HDMI 1.3b, supports 480i/P, 576i/P, 720P, 1080i/P, 1600x1200 and max. resolution up to 1920x1200.
- No interference by environmental noise or radio frequency.
- No software driver needed, plug and play.
- Class 1 laser product complies with EN 60825-1
- HDMI Type A connection

Application

- Commercial or home theater.
- Remote monitor for traffic, industrial, military control.
- Video projector, LCD or Plasma TV connection.
- Large video wall system.



Typical Application



Package include

- TX module x 1
- RX module x 1
- 5V adapter x 2
- HDMI cable x 1
- Optional: optical fiber

Specification

Max transmission length:	200M
Max resolution:	1920x1200
HDCP compliant:	YES
CEC compliant:	YES
Operating voltage:	DC5V
Power consumption:	TX: 3W RX: 3W
Operating temperature:	-10 to 50 degree C
Storage temperature:	-20 to 75 degree C
Dimension:	145mm(L) x 95mm(W) x 26mm(H)
Weight:	430g +/-5%



Optical HDMI Transceiver via 2-cores multimode fiber SC duplex connector Extends HDMI link up to 200 meters

Requirements

- HDMI signal source device (Blu-ray Disc Player, HD-DVD or DVD player, PC or others with HDMI output)
- HDMI signal receiving device (Video projector, LCD or Plasma TV or other HD video display)
- AC100~240V, 50~60Hz, 0.2A

HDCP Compliant

HDCP (High-bandwidth Digital Content Protection) is a kind of copy protection by digital signal handshake. It is required for HDMI devices. The "Optical HDMI Transceiver" plays the role of a cable to communicate with HDMI receiving device with all HDMI functions such as all TMDS, DDC, CEC and HPD signal.

Installation

Installation steps:

1. Put "Transmitter" module near to HDMI signal source device, such as Blu-ray Disc Player.
2. Put "Receiver" module near to HDMI signal receiving device, such as video projector.
3. Connect HDMI cable from Transmitter to HDMI signal source device and from Receiver to HDMI signal receiving device.
4. Plug in the 2-cores optical fiber from Transmitter to Receiver. Please pay attention to the indication number if SC connector is used.
5. Plug in the 5V adapters to AC power and put DC plugs to transceiver modules.
 - Note 1: Clean fiber end's surface before plugging in. The dust will damage laser diode and laser detector.
 - Note 2: The length of HDMI cable should be as short as possible. It is highly recommended NOT longer than 2 meters.
 - Note 3: When DC 5V is applied to the modules, the brand name "Do-In Instruments" logo will be lighted on with blue color. Other three LEDs in front panel represent linking status. These three LEDs blaze green if all setups are completed and correct.

Remarks:

When you plug the fiber into the module, please make sure the fiber plug is securely plugged into the fiber jack. You have to push the fiber plug little bit harder, and you should hear a "click" sound if the fiber plug is fully plugged in.