



Preliminary

Description

HDMI (High-Definition Multimedia Interface) recently has become increasingly 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. ACE Plus HDMI extender uses 2 cores 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
- High resolution and image quality
- HDCP fully compliant without copper wire
- No RF Interference by optical fiber
- Class 1 laser product complies with EN 60825-1
- HDMI Type A connection

Application

- Remote monitor for traffic, industrial, military control
- LCD, Projector, Plasma display connection
- Large video wall system
- Theater

Application Note



Ordering information

Part Number

HDMIE0002-XX

01 : US Plug for AC adaptor

02 : EU Plug for AC adaptor

03 : UK Plug for AC adaptor

This product does not include optical fiber

Package include

- TX module × 1
- RX module × 1
- 5V adapter × 2
- HDMI cable × 1

Optional : 2nd HDMI cable · EU/BS/AU Plug converter of 5V adapter

Specification

PARAMETER	SPECIFICATION	NOTE
Max length	200M	62.5/125 MMF
Max resolution	1920 × 1080	
HDCP compliant	YES	
CEC compliant	YES	
Operating voltage	5VDC	
Electrical Power consumption	TX: 3W RX: 3W	5V/600mA 5V/600mA
Operating Temperature	-10°C to 50°C	
Storage Temperature	-20°C to 75°C	
Dimension	145 × 95 × 26	L × W × H (mm)
Weight	430g ± 5%	

Requirements

- HDMI Source (DVD player or PC)
- HDMI Sink (LCD TV or Projector)
- 100~240VAC 50~60Hz 0.2A electricity

Adapter Specification

PARAMETER	SPECIFICATION	NOTE
Input	100~240VAC	US plug
Output	DC 5V	1.0 A
DC Jack	Inside 5V / Outside ground	



US Plug



EU Plug

HDCP compliant

HDCP (High-bandwidth Digital Content Protection) is one kind of copy protection by digital signal handshake. It is required for HDMI device. The Extender plays the role of cable to be a communicate all of HDMI functions. Such as video, audio and other handshake signal.

Installation

Installation Step

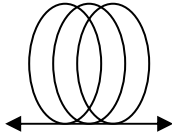
1. Put 'TX' module near to HDMI signal source, such as DVD players or computers.
2. Put 'RX' module is near to HDMI sink, such as LCD TVs or Projectors.
3. Connect two place by using multimode fiber of 4 cores.
4. Scour the all end face of fibers. (See Note 1)
5. Plug in the fibers according to the indicated number. The '1' and '2'.
6. Plug in the 5V adapter to the electricity and TX/RX modules.
7. Link TX module to HDMI source by a HDMI cable. (See Note 2)
8. Link RX module to HDMI sink by a HDMI cable. (See Note 2)

Note 1 : Clean end face of fiber before plugging in. The dust will cause damage to the fiber.

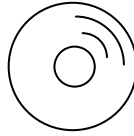
Note 2 : The length of HDMI cable should be NOT longer than 2 meters.

Note 3 : These three figures in front of the modules represent linking status. These 3 LEDs blaze green if all setup is complete and correct. The left one stands for the connection of fiber. The middle one stands for the connection of HDMI source. The right one stands for the connection of HDMI source.

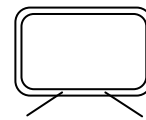
Optical fiber



HDMI source cable



HDMI sink cable



Safety Regulation

