

IFHE-500T/R

4K HDMI 1 FIBER OPTIC EXTENDER



Front View



Rear View

Product Summary

The IFHE-500T/R is a high-performance HDMI fiber optic extender that reliably transmits HDMI video and audio signals over long distances via fiber optic cable.

It is designed to overcome the distance limitations of standard HDMI cables, reliably delivering high-resolution video and audio without loss over extended distances, and supports high-resolution video transmission of up to 4K UHD (3840×2160) at 60Hz, maintaining sharp, clear picture quality.

It can also transmit large volumes of high-quality video data without dropouts or degradation, making it well-suited for building high-definition video systems. Using fiber optic cable, it reliably transmits HDMI signals over distances of up to 2km, remaining largely unaffected by electromagnetic interference (EMI) even in long-distance environments — delivering outstanding signal stability and reliability, and achieving optimal performance in long-distance video transmission environments that are difficult to realize with standard HDMI cables.

The IFHE-500T/R is well-suited for a wide range of environments requiring long-distance video transmission, including broadcasting stations, churches, performance venues, auditoriums, conference rooms, educational facilities, government offices, factories, and control centers, offering a reliable 4K video transmission solution at a reasonable cost.

Key Features

- Single-mode: up to 2km
- Multi-mode: up to 300m
- HDCP support
- 1LC connector type
- KC certified

Specifications

Item	Specification
Model	IFHE-500T/R (4K HDMI 1 Fiber Optic Extender)
Maximum Resolution	4K@60Hz (3840x2160 YCbCr 4:2:0) / 10.2Gbps
Connector Type(Input/Output)	HDMI Type A Female, 1LC Connector, RS-232C, DC Jack
Transmission Distance	Single-mode: 2Km / Multi-mode: 300m
Control	RS-232C: Industrial Terminal, Bi-directional
HDCP Support	HDCP ON: Up to 300m (Single-mode / Multi-mode)
Wavelength	1330nm(T) / 1270(R), 1270nm(T) / 1330nm(R)
Dimensions (W×H×D)	82.5 x 38 x 13.5 (mm)
Power	DC +5V / 2A
Operating Environment	- Temperature: -10℃ ~ 60℃ - Humidity: Up to 80% RH, Non-Condensing
KC Certification	R-R-BLX-IFHE-500T, R-R-BLS-IFHE-500R

※ Notes

Rev. [1.0.0] | [20260723]

* Specifications and design are subject to change without prior notice.