VH100T & VH100R HDBaseT Extender for 100m



Overview

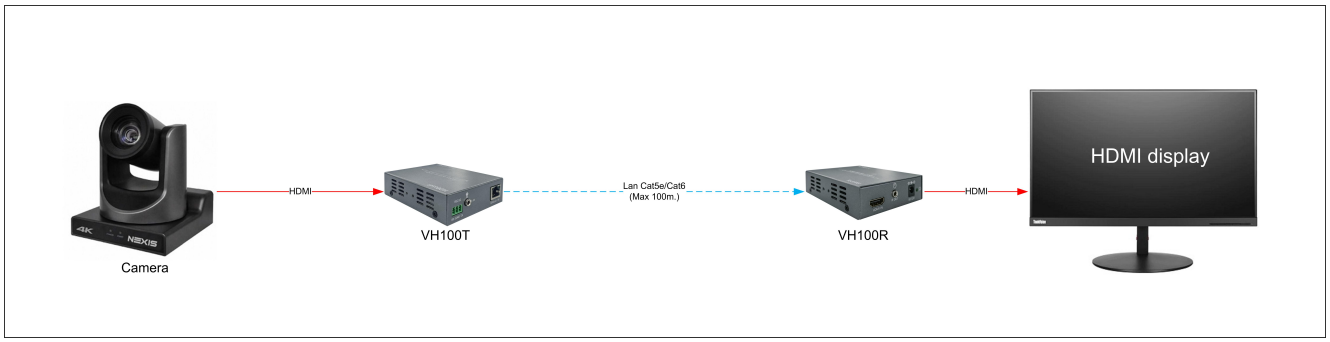
The VH100T & VH100R HDMI Extender over cat5e/cat6 is to extend the HDMI signal over long distances to a compatible display. It is designed to convert HDMI signal to standard HDBaseT signal and transmit by Cat5e/6 cable. It also transmit Bi-directional Infrared signal together with the HDMI signal, capable of controlling the source in the device side out to 100 meters, or from source to device, RS232 pass through makes it more convenient to be controlled.

VH100T·····Transmitter
VH100R·····Receiver

Features

- Allow HDMI signal/IR transmit up to 100 meter over Cat5e/6 cable
- HDMI signal from 1080P to 4Kx2K, 3D video format support, HDCP compliance
- IR signal/RS232 pass through together with HDMI over Cat5e/6 cable bi-directionally for remote control
- Ultra Light&thin case design for easy installing

System Diagram



Specification

HDMI video interface	
Protocol support	HDMI1.4, HDCP1.3，EDID1.4
Pixel bandwidth	330MHz
Interface bandwidth	10.2Gbps
Maximum resolutions	1900x1200@60Hz，3840X2160@30Hz HDTV: 1920x1080P@60Hz BD: 4Kx2K@30Hz
Signal type	HDMI 1.4 / T.M.D.S.
IN/OUT interface	HDMI type A, female; HDBaseT
Signal amplitude	T.M.D.S. +/- 0.4Vpp
Min/Max Voltage	T.M.D.S. 2.9V/3.3V
Input impedance	100Ω
HDMI Input distance	<15m

Dimensions	135mmX75mmX15mm
Control interface	
Serial	RS232 （3PIN 3.5mm ）
Baud	110-115200bps
IR control	IR （3.5MM）
IR frequency	38K
ETHERNET	RJ45
Transmission Distance	Up to 100m by CAT5e/6
Power supply	18V DC
Maximum dissipation	18W