

CLR-HDMI-LLT & CLR-HDMI-LLR

HDbiT HDMI IP Network Extender with HDMI local-out



Overview

CLR-HDMI-LLT and CLR-HDMI-LLR, as a set, is a perfect solution to transmit high quality, 1080P HDMI video from HDMI sources like DVD Player, Blu-ray Player Set-top box, console systems or other video equipments, over current TCP/IP LAN. Up to 253 receivers can get the HDMI signal from one source using the cat6 UTP infrastructure. It can achieve 120m of transmission distance.

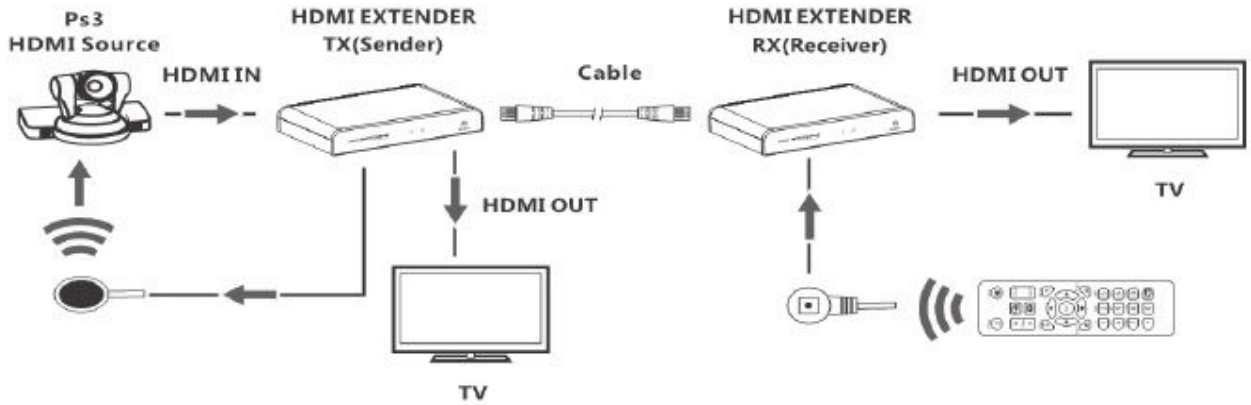
This easy to use solution avoids the image mosaic and color distortion in the video. It also supports IR transmission function. As an additional function, the CLR-HDMI-LLT/R can be utilized as HDMI splitter in its nature. Because the HDMI signal from one source is being splited to all receivers in the network. As another function, the transmitter additionally has a local HDMI output port which can be used to connect a local monitor directly to the transmitter.

Area of usage

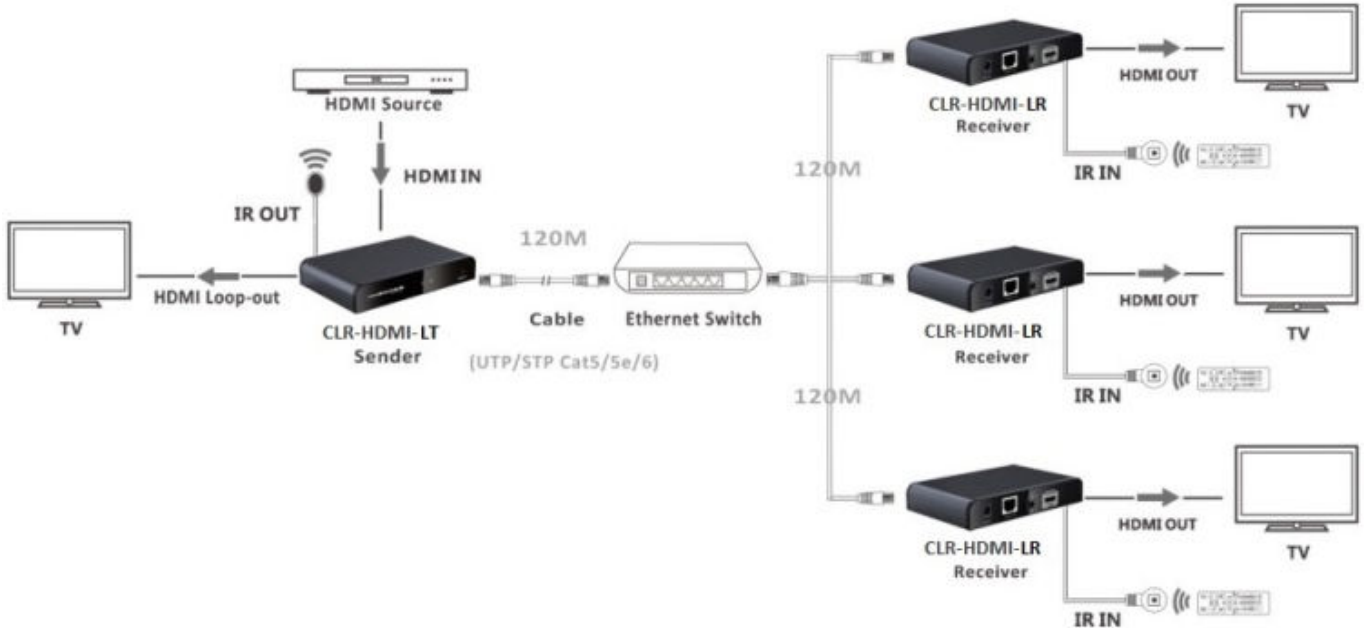
- Long distance transmission of high quality HDMI video and audio throughout TCP/IP network.
- HDMI monitors in the shopping centers, hospitals, schools, etc.
- Video conference systems
- Medical monitoring system
- CCTV, multimedia projects
- The industrial automation and control systems
- Big screen LED curtain wall display projects
- LCD and plasma flat panel multimedia advertising
- Security monitoring system
- Multimedia network education system
- Long-distance network server monitoring
- Military visual systems

Application Diagram

- Point to Point connection up to 120m



- Point to Multipoint connection realizes extender and splitter functions by using network switch



Features

- Supports full standard HDMI specifications including full HD 1080p, deep color, lip sync and CEC.
- HDCP compatible
- HDMI local display output on transmitter, for monitoring (HDMI loop-out)
- 120m HDMI signal over Cat6 cable
- Supports all high resolution multichannel audio formats including Dolby Digital Plus, 7.1 LPCM, Dolby TrueHD and DTS Master Audio.
- Extends HDMI and IR signals by converting them to standard IP network signals
- Long distance HDMI signal transmission wherever you want in your network.
- HDMI splitting and distribution function. 1pcs transmitter + N pcs receivers. Extend and split by LAN
- IR infrared pass-through to control the source device at a long distance location.
- Auto adjustment to achieve the best display by matching cable length.
- Plug & Play
- Elegant design, dust proof, anti-fingerprints, easy heat dissipation

LEDs & Ports

Transmitter (TX)



Receiver (RX)



Specifications

HDMI Functions

HDCP version	- HDCP1.2
Input HDMI Resolution	- 480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz
Output HDMI Resolution	- 480p@60Hz, 576p@50Hz, 720p@50/60Hz, 1080p@50/60Hz
Supported video color formats	- 24bit/Deep color 30bit/Deep color 36bit
Supported audio formats	- DTS-HD/Dolby-true HD/LPCM7.1/DTS/Dolby-AC3/DSD
Maksimum transmission Rate	- 10.2Gbps
Audio signal transmission format	- L/R Stereo Audio
IR signal	- Supports 20~60KHz IR devices
TMDS signal	- 0.5-1.5Vp-p (TDMS)
DDC signal	- 5Vp-p (TTL)
Input Cable Length	- ≤5m (AWG26 HDMI1.3 standard cable)
Output Cable Length	- ≤5m (AWG26 HDMI1.3 standard cable)

Transmission Medium

Interface medium	- Cat 6 UTP cable TIA/EIA568 B
Connector Type	- RJ45
Transmission distance	- Up to 120m with cat 6 UTP cable in point-to-point mode

Environmental specs

Power supply	- DC 5V/1A
Power consumption	- TX: 3.5W , RX: 3W
Electrostatic protection	- 1a socketed discharge level 3, 1b air discharge level 3, Standard IEC61000-4-2
Working Temperature	- 0~55°C
Dimension	- 13 x 8.4 x 2.32cm
Weight	- 0.126Kg
Material	- Alumina based material + ABS + Crystal panel

Ordering Information

CLR-HDMI-LLT	HDbiT HDMI - Ethernet Extender over LAN with IR Transmitter and HDMI local-out
CLR-HDMI-LLR	HDbiT HDMI - Ethernet Extender over LAN with IR Receiver