

Mini YPbPr-Audio/SPDIF Extender over UTP/CAT5 Cable



Fully HD Compatible YPbPr/Audio-SPDIF CAT5 Cable Extender

Features & Applications

The EasyTool™ mini HD YPbPr-Audio/SPDIF Extender transmits YPbPr-Audio/SPDIF up to 100/1000 feet away from a HD component video source using CAT5/5e/6 cable. The YPbPr-Audio/SPDIF extender consists of a local unit that connects to a HD component video source and also supplies component video and stereo/SPDIF audio to a local monitor and speaker, and a remote unit that connects to a monitor and speaker. The mini HD YPbPr-Audio/SPDIF extender uses +9V to +12VDC external adaptor power, mini extender has engineering mounting holes in metal case.

- Sharpest and clearest component video quality over CAT5 of any manufacturer.
- Hi performance Audio quality over CAT5 of any manufacturer
- Supports local and remote YPbPr component video monitors and speakers.
- Real Time Transmission Video & Audio signals by single CAT5 cable
- No TCP/IP protocol and networking setting and maintenance
- No Ant firewall needed, no IP and networking occupation
- Plug and Play, compatible with all format HD component video signals.
- Available with contract and RGB brightness adjustment.
- Use in-house CAT5/5e/6 phone wiring to locate a monitor remotely.
- Power-red LED. Metal case (Transmitter/Sender, Receiver/Remoter)

Local Unit – Transmitter/Sender

- Supports up to 1080p high definition component video.
- Female RCA connectors for component video source connection.

1

- Stereo/SPDIF audio support - 3.5mm stereo plug to 2 RCA male connector cable.

Local Access

- Crisp and clear 480i 480p 576i 576P 720i 720p 1080i 1080p component video formats.
- Female RCA and 3.5mm stereo connectors for local YPbPr component video monitor and speaker.

Power

- +9V to +12V DC/500mA via AC/DC adaptor
 - 3.5mm male stereo audio cable
 - Power consumption: 2W

Cables

- CAT5, CAT5e or CAT6 UTP straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors (not included).

Dimensions:

- WxDxH (mm): 95x97x28 (Mini Sender)
- Weight: 550g (Mini Sender)
- Mounting holes in metal case (Mini Sender)

Local Unit Environmental

- Operating temperature: 32°F to 100°F (0°C to 38°C).
- Storage temperature: -20°F to 140°F (-30°C to 60°C).
- Operating and Storage Relative Humidity: 17 – 90% non-condensing RH.

Regulatory Approvals

- CE / FCC RoHS

Remote Unit- Receiver/Remoter

- Supports resolutions 480i 480p 576i 576P 720i 720p 1080i 1080p component video formats. Refer to the resolution charts below for resolutions at different lengths.
- Female RCA connector for component video monitor connection.
- One 3.5mm connector for audio output connection.

2

Video Quality and Adjustment

- Mini YPbPr Audio Remoter: component video quality brightness, contract adjustment for different lengths of CAT5/5e/6 cable is done manually.

Power

- Mini YPbPr Audio Remoter, +9V to +12V via AC/DC adapter (Included).
- Power consumption: 2W (Mini Receiver)

Dimensions:

- WxDxH (mm): 95x97x28 (Mini Remoter)
- Weight: 550g
- Mounting holes in metal case (Mini Remoter)

Local & Remote Unit Environmental

- Operating temperature: 32°F to 100°F (0°C to 38°C).
- Storage temperature: -20°F to 140°F (-30°C to 60°C).
- Operating and Storage Relative Humidity: 17 – 90% non-condensing RH.

Regulatory Approvals

- CE /FCC RoHS

Audio Specification

- Stereo/Audio can be heard both locally and remotely.
- Frequency response: 20 Hz to 20 kHz, +/-1 dB.
- Signal-to-Noise Ratio (SNR): 76 dB.
- Total Harmonic Distortion and Noise (THD+N): 0.017%.
- Input impedance: 10k Ohms.
- Line level 640ohm output; supports multimedia speakers.
- Maximum I/O levels: 3.1Vp-p (line level).

Note: CAT6 cable has a higher skew than CAT5/5e cable, which causes colors to smear. Since these extenders do not have internal skew compensation, they work at shorter distances with CAT6 cable. We recommend our client use CAT5/5E UTP pure copper cable for this kind of AV extension application.

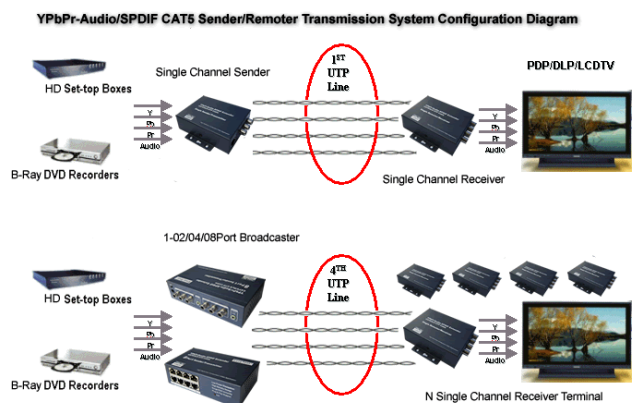
3

Electronics Specification

- Component Video Input /Output :RCA Female (75ohm load)
- Video Input Signal: 0.5Vp-p - 1Vp-p Single End
- Video Output Signal: 0.5Vp-p -1Vp-P Single End (75ohm load)
- Video Transmission Distance: 100-1000ft (CAT5/5E/6 cable)
- Audio Input: 3.5mm Stereo Female Socket
- Audio Output: 3.5mm Stereo Female Socket
- Audio Input: 1Vp-p – 2Vp-p Single End
- Audio Output: 1Vp-p – 2Vp-P Single End (300/640 ohm load)
- Audio CMRR: -80dB @1kHz
- Video CMRR: -55dB @1MHz
- Audio Transmission Distance: 100-1200ft (CAT5/5E/6 cable)
- External Power Supply: +9V to +12V DC

YPbPr-Audio/SPDIF CAT5 Extender System Configuration Diagram

Mini YPbPr-Audio-SPDIF Extender 100-1000ft Distance over UTP/CAT5 Cable Engineering Installation System Configuration Diagram



4