Extend an HDMI Display and IR Signal up to 300 Feet (91 Meters)
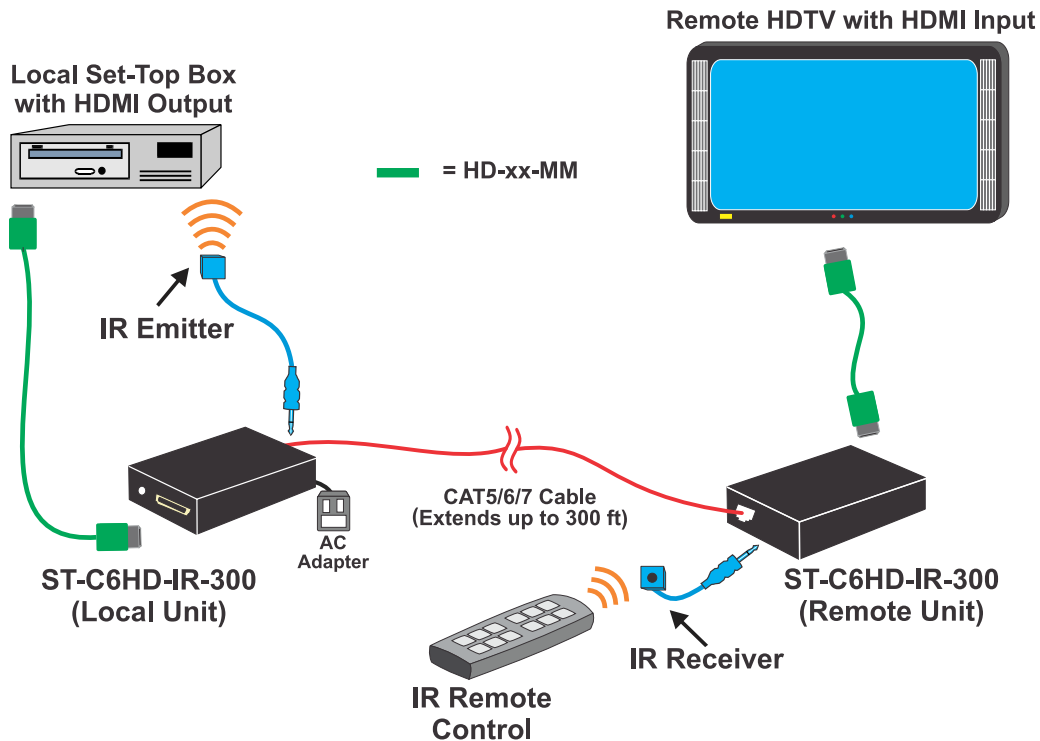
- Transmits HDMI signal over one CAT5e/6/7 cable
- Full IR control of HDMI source from remote HDTV using existing source remote control.
- Supports HDTV resolutions to 1080p and computer resolutions to 1920x1200 (WUXGA).
  - Refer to the resolution chart in the specifications section for resolutions using different CATx cable types and lengths.
- Available with optional stereo audio
- HDMI features supported:
  - 12-bit Deep Color
  - x.v.Color
  - Dolby TrueHD, DTS-HD Master Audio, Dolby Digital, and DTS
  - Bandwidth up to 225 MHz (6.75 Gbps)
  - Support for CEC (consumer electronic control) compatible devices.
  - Lip Sync
- HDCP compliant.
- Supports the DDC2B protocol.
- Only one power supply is necessary to power both the local and remote units.

DIGITAL SIGNAGE

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

XTENDEX® ST-C6HD-IR (Local and Remote Unit)

- **Optional Support for Stereo Audio**
- **Extend to 300 ft (91 m) via One CAT5e/6/7 Cable**
- **Only One Power Supply Required**

The XTENDEX® HDMI Extender transmits digital video, audio and IR signals up to 300 feet using one CAT5e/6/7 cable. Each video extender consists of a local unit that connects to an HDMI source and IR emitter, and a remote unit that connects to an HDMI display and IR receiver.

Remote HDTV with HDMI Input

Local Set-Top Box with HDMI Output

= HD-xx-MM

IR Emitter

ST-C6HD-IR-300 (Local Unit)

AC Adapter

CAT5/6/7 Cable (Extends up to 300 ft)

ST-C6HD-IR-300 (Remote Unit)

IR Receiver

IR Remote Control

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Extend an HDMI Display and IR Signal up to 300 Feet (91 Meters)

Specifications

Local Unit

- Compatible with a computer or HDTV video source with HDMI output.
- One female HDMI connector.
- IR extension support: one female 3.5mm port for IR emitter.
- Optional stereo audio support: 3.5mm jack.
- One female RJ45 port for sending/receiving high definition video/audio signals, IR signal, CEC signal, and DDC signal.

Remote Unit

- One female HDMI connector for display.
- IR extension support: one female 3.5mm port for IR receiver.
  - IR frequency range: 33 to 40 kHz.
  - Center Carrier Frequency: 36 kHz.
- Optional stereo audio support: 3.5mm jack
- One female RJ45 port for sending/receiving high definition video/audio signals, IR signal, CEC signal, and DDC signal.
- Supports HDTV resolutions to 1080p and computer resolutions to 1920x1200 (WUXGA).
- Supports embedded digital audio through HDMI compatible TVs or audio receivers.
- Auto equalization for different lengths of CAT5e/6/7 cable.

Optional Stereo Audio

- Stereo audio can be heard both locally and remotely.
- Frequency response: 20 Hz to 20 kHz, ±1 dB.
- Signal-to-Noise Ratio (SNR): 76 dBA.
- Total Harmonic Distortion and Noise (THD+N): 0.017%.
- Stereo crosstalk: -70 dB.
- Input impedance: 10k Ohms.
- Line level output; supports multimedia speakers.
- Maximum I/O levels: 3.1Vp-p (line level).
- CD quality audio output.

Power

- Powered from a single power supply attached to either the local or remote unit.
- Local or remote unit: 100 to 240 VAC at 50 or 60 Hz via AC adapter. (Country-specific AC adapter included.)

HDMI Extender Models	
Supported Features	**NTI Part #**
HDMI + IR	ST-C6HD-IR-300
HDMI + Stereo Audio + IR	ST-C6HD-AIR-300

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Cables

- Use HD-xx-MM cable to connect an HDMI source or display.
- Use DVI-HD-xx-MM cable to connect a DVI source or display.
- Use SA-xx-MM cable with units with stereo audio option to connect a stereo audio source or speakers.
- Use CAT5e/6/7 straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors (not included).
- IR transmitter/receiver included.

Environmental

- Operating temperature: 32 to 122°F (0 to 50°C).
- Storage temperature: -20 to 140°F (-30 to 60°C).
- Operating/storage relative humidity: 5 to 90% non-condensing RH.

Dimensions

- WxDxH: 2.5x3.1x1.2 in (64x79x31 mm)

Regulatory Approvals

- CE, RoHS

Warranty

- Two years

Distances and Resolutions for CAT5e, CAT6 and CAT7 Cables		
Cable	**Distance**	**Maximum Standard Resolution**
CAT5e Solid	100 ft (30 m)	1080p / 24Hz
		1080i / 60Hz / 12-bit
		720p / 60Hz / 12-bit
CAT5e Stranded UTP	100 ft (30 m)	1080p / 24Hz
		1080i / 60Hz / 12-bit
		720p / 60Hz / 12-bit
CAT6 Solid UTP	50 ft (15 m)	1080p / 60Hz / 12-bit
		1920x1200 / 60Hz / 8-bit
	75 ft (22 m)	1080p / 60Hz / 10-bit
		1080i / 60Hz /12-bit
		1920x1200 / 60Hz / 8-bit
	150 ft (45 m)	1080p / 60Hz / 8-bit
		1080i / 60Hz / 12-bit
	200 ft (60 m)	1080p / 24Hz
		1080i / 60Hz / 12-bit
		720p / 60Hz / 12-bit
	250 ft (76 m)	1080p / 24Hz
		1080i / 60Hz /8-bit
		480p / 60Hz / 12-bit
	300 ft (91 m)	480p / 60Hz / 12-bit
		800x600 / 75Hz /8-bit
CAT7 Solid STP	200 ft (60 m)	1080p / 60Hz / 8-bit
		1080i / 60Hz / 12-bit
	279 ft (85m)	1080p / 24Hz
		1080i / 60Hz / 8-bit
		480p / 60Hz / 12-bit