

RELIABLE HDMI EXTENSION

HD-ONE SERIES

# REAL PERFORMANCE, REAL DISTANCE



**DX/LX:**  
**328 foot reach**

**DX500/LX500:**  
**500 foot reach**

Magenta's HD-One series is your answer to deploying digital video extenders with simplicity and long-term confidence. HD-One will enable your systems flawlessly, while backed by the finest engineering and support in the industry.

The HD-One DX and LX deliver reliable, uncompressed, high-definition video over a single Cat5e/6/6e/7 cable to a distance of 328 feet/100 meters. The HD-One DX500 and LX500 go a step further, offering a distance reach of 500 feet/152 meters, while also using less power, dissipating less heat and providing significantly better resistance to environmental emissions and interference.

DX Series kits extend embedded HDMI audio in addition to video, with support for Dolby® TrueHD and DTS-HD Master Audio. LX Series offer additional support for bi-directional RS-232 and two-way IR signals. For ease of use, all LX kits come with one set of IR emitter/receiver cables. LX

Receivers are also tunable to three different IR bands (36.7, 38.0 or 58.8 kHz). All HD-One products are fully HDCP-compliant and feature plug-and-play functionality.

The distance reach of HD-One DX & LX products is impossible to replicate using HDMI cables, which are difficult to terminate, costly and can degrade picture quality, even at short distances.

## HD-ONE: ROCK SOLID HDMI EXTENSION OVER A SINGLE UTP TO 500 FEET

UTP cable, meanwhile, is both inexpensive and easy to terminate in the field, making HD-One products an easy decision for extending an HDMI or DVI source to any display. Most importantly for installers, HD-One products just work, period.



SWITCHING ► EXTENSION ► DISTRIBUTION



HD-ONE LX TRANSMITTER (L) AND RECEIVER (R) FRONT/BACK VIEW



HD-ONE LX500 TRANSMITTER (L) AND RECEIVER (R) FRONT/BACK VIEW



HD-ONE DX TRANSMITTER (L) AND RECEIVER (R) FRONT/BACK VIEW



HD-ONE DX500 TRANSMITTER (L) AND RECEIVER (R) FRONT/BACK VIEW

## KEY FEATURES

- ▶ 1920x1080, 1080P/60 Resolution
- ▶ Works Over a Single CAT5e, CAT6, CAT6e, CAT7 UTP, STP or FTP Cable
- ▶ Supports Embedded HDMI Audio, Including Dolby® TrueHD and DTS-HD Master Audio
- ▶ No Adjustments or Tuning Required
- ▶ 328'/100 Meter Reach (LX, DX)
- ▶ 500'/152 Meter Reach (LX500, DX500)
- ▶ HDMI 1.3 Compliant
- ▶ HDCP Compliant
- ▶ Bi-Directional RS-232 Interface (HD-One LX)
- ▶ Two-Way IR Support (HD-One LX)
- ▶ Includes one IR Emitter/ Receiver pair (HD-One LX)
- ▶ Integrated Mounting Flange
- ▶ Tolerances Designed for Commercial Environments

## TYPICAL INSTALLATION TYPES

- ▶ Museums
- ▶ Large Retail Environments
- ▶ High-end Security, Education and Residential
- ▶ Digital Signage
- ▶ Wayfinding Installations
- ▶ Home Theatre

## SPECIFICATIONS (LX, DX, LX-500, DX-500)

- Supported Video:** HDMI/DVI Video Modes, HDMI 1.4, HDCP Compliant including standard formats @ 60Hz: 640x480, 800x600, 1024x768, 1152x864, 1280x768, 1280x960, 1280x1024, 1360x760, 1366x768, 1600x1200, 1680x1050, 1920x1080, 1920x1200 & HDTV: 480p, 720p, 1080i, & 1080p.
- Video In:** HDMI Type A (Transmitter)
- Video Out:** HDMI Type A (Receiver)
- Audio In/Out:** Embedded with video signal
- UTP In/Out:** RJ45 Connector
- Required UTP:** CAT5e, CAT6, CAT6a, CAT6e, CAT7 UTP/STP/FTP (CAT6 or better is recommended)
- Bandwidth:** 3.4 Gbps
- RS-232 Baud Rate (LX):** To 115200bps; Full Duplex
- RS-232 Connector (LX):** DB9 Female / DB9 Female
- IR Carrier (LX):** 36.7, 38.0, or 56.8 kHz modulated emitter output; Bi-directional
- Power:** +5 VDC @ 2.6A max each unit  
Consumption: 1200 mA max
- Consumption:** 600mA(max) / 1200mA(max)
- Dimensions (DX):** 3.2" x 1.9" x 1.0"  
(82 mm x 48.6 mm x 24.8 mm)
- Dimensions (LX):** 5.1" x 3.5" x 1.2"  
(130mm x 88 mm x 30mm)
- Weight:** DX: 0.3 lb (0.14 kg) each  
LX: 0.6 lb (0.28 kg) each
- Humidity Tolerance:** Up to 95% non-condensing
- Operating Temperature:** 0 to 55 C
- Storage Temperature:** -20 to 85 C
- Warranty:** 3 years

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