TECHNICAL SPECIFICATIONS

VIDEO	
Format	HDMI 1.3 and HDCP compliant
HDTV Resolutions	480p, 720p, 1080i, 1080p/60Hz/48bit
TV Resolution	480i
Input Interface (TX)	HDMI Type A 19-pin Female TMDS
Output Interface (RX)	HDMI Type A 19-pin Female TMDS
Input Cable Length (TX)	Up to 40 ft.
Output Cable Length (RX)	Up to 40 ft.

AUDIO	
Format	Dolby TrueHD, DTS-HD MA
Input Interface	HDMI (Integrated)
Output Interface	HDMI (Integrated)

IR	
Signal Type	38 KHz
Interface	3.5 mm Jack Socket (Female)

SYSTEM	
Interface	RJ-45
Cable Requirements	CAT5/5e/6
Maximum Length	500 ft.

OTHER	
Power Adapter	5VDC2A
Approvals	UL, CE, ROHS Compliant
Weight (TX + RX)	.45 lbs.
Dimensions (Each)	2.78" W x 1.125" H x 4" D
Operating Temp	32 to 131°F (0 to 55 °C)
Storage Temp	-4 to 185 °F (-20 to 85 °C)
Operating Humidity	Up to 95% (No Condensation)

WHAT'S IN THE BOX

PART NO.	QTY	DESCRIPTION
HLX-500-S	1	HDMI, IR, Point to Point CAT5 Extender. Includes: [HLX-500-TX, HLX-500-RX]
PS5VDC2A	2	Power Adapter
	1	Quick Start Guide

IR Emitter and Receiver are optionally available from Smart-AVI.

NOTICE

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Designed and Manufactured in the USA

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Smart-AVI
SMART AUDIO VIDEO INNOVATION

HLX-500

Chainable HDMI Extender via LAN

Break distance barriers to extend HDMI signals over IP using Cat5e/6 cables

Quick Start Guide

INTRODUCTION

The HLX-500 HDMI Extender gives users the freedom to extend HDMI signals via LAN, using inexpensive Cat5e/6 cables that many modern communications already rely on. This chainable extender can be used to generate thousands of feet of HDMI signal extension, breaking distance barriers. Users can set up their own extension cabling or utilize the pre-existing LAN infrastructure they have access to. Each unit extends signals up to 500 feet. With no software or driver required. Users can easily extend HDMI signals such as HDTV, Blu-Ray, video game consoles and more. The HLX-500 supports 1080p HD video up to 1920x1080 resolution at
60Hz and is Infrared Remote enabled.

The HLX-500 is a compact unit that is easily integrated into a digital display network at retail stores, restaurants, office spaces and many other venues. The transmitter and receiver units are small yet sturdy, which makes inclusion into any audio/video infrastructure quick and efficient.
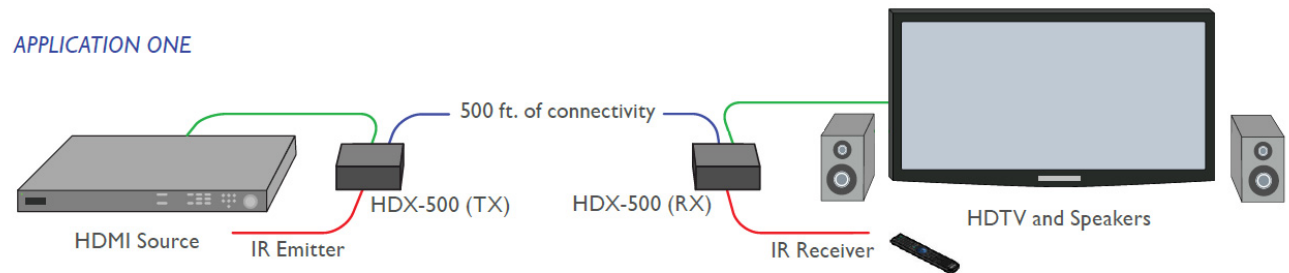
The HLX-500 compresses data to utilize Cat5e/6 cables, but users will see no degradation of signal when using one gigabit Internet connections and up. For users utilizing pre-existing LAN connections, implementing a one gigabit switch allows for full resolution extension. Users with smaller bandwidth will experience compressed signals, if they so choose.
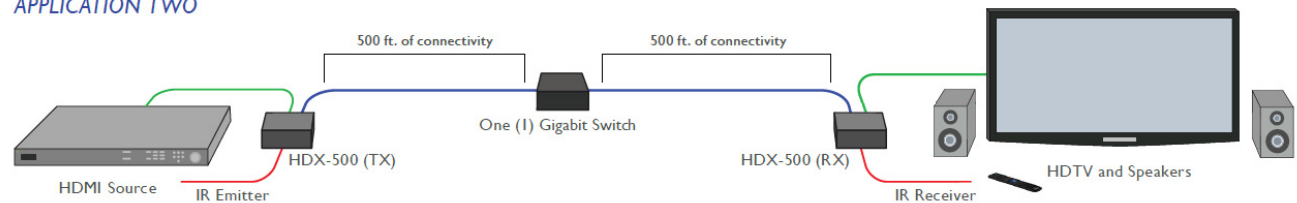
INSTALLATION DIAGRAM

APPLICATION ONE

HDMI Source — HDX-500 (TX) — 500 ft. of connectivity — HDX-500 (RX) — HDTV and Speakers
IR Emitter — IR Receiver

APPLICATION TWO

HDMI Source — HDX-500 (TX) — 500 ft. of connectivity — One (1) Gigabit Switch — 500 ft. of connectivity — HDX-500 (RX) — HDTV and Speakers
IR Emitter — IR Receiver

CONNECTING THE PRODUCT

Application 1
1. Connect an HDMI cable from the HDMI source to the HLX-500-TX.
2. Connect the HDMI display to the HLX-500-RX.
3. Connect the HLX-500-TX to the HLX-500-RX with a CAT5e/6 cable.
4. Power on the HLX-500-TX and the HLX-500-RX.

Application 2
1. Connect an HDMI cable from the HDMI source to the HLX-500-TX.
2. Connect the HDMI display to the HLX-500-RX.
3. Connect the HLX-500-TX to a 1 Gigabit switch with a CAT5e/6 cable.
4. Connect the HLX-500-RX to a 1 Gigabit switch with a CAT5e/6 cable.
5. Power on the HLX-500-TX and the HLX-500-RX.

Note:
IR Emitter and Receiver are optionally available from Smart-AVI.
If you lose Audio / Video there are reset buttons on the TX and RX for Audio / Video recovery.
Resident EDID is: PCT_EXTENDER