

## TECHNICAL SPECIFICATION

VIDEO	
Format	DVI-D
HDTV Resolutions	480p, 720p, 1080i, 1080p/60Hz/48bit
TV Resolution	480i
Input Interface (TX)	DVI-I, 2 USB Type A Female & 1 USB Type B
Output Interface (RX)	DVI-I, 2 USB Type A Female
Input Cable Length	Up to 40 ft.
Output Cable Length	Up to 40 ft.
AUDIO	
Format	Stereo
Input Interface	3.5 mm Jack Socket (Female)
Output Interface	3.5 mm Jack Socket (Female)
SYSTEM	
Interface	RJ-45
Cable Requirements	CAT 5/5e/6
Maximum Length	500 ft.
OTHER	
Power	External 100-240 VAC
Dimensions	17.125"W X 3.75"D X 2"H each
Weight TX & RX	1.2 lbs. each
Approvals	UL, CE, ROHS Compliant
Operating Temp.	41 to 122 °F (5 to 50 °C )
Storage Temp.	32 to 149 °F (0 to 65 °C )
Humidity	Up to 85%

## WHAT'S IN THE BOX

PART NO.	Q-TY	DESCRIPTION
KLX-500-1U-TX	1	Industrial DVI, KVM Signal Transmitter
KLX-500-1U-RX	1	Industrial DVI, KVM Signal Receiver
CCPWRO6	2	6' Power Plug Cable
EN-QKVM-EAR-P	1	Rack mount brackets
Quick Start Guide	1	

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**Smart-AVI**  
SMART AUDIO VIDEO INNOVATION

# KLX-500-1U

## Industrial DVI-D/VGA/KVM Signal Extender via LAN



**EXTEND HD DVI-D,  
KEYBOARD-MOUSE,  
AND AUDIO OVER LAN  
ON ONE INDUSTRIAL RACK**

**Quick Start Guide**

## OVERVIEW

The KLX-500-1U is an industrial-strength DVI-D with VGA input support and KVM signal extender capable of transmitting 1080p HD video to displays up to 500 feet away via CAT5e/6 cables over LAN.

The KLX-500-1U also offers full USB keyboard, video, and mouse operation extension for local and remote real-time system management; great for supervising and managing projects from the convenience of your personal workstation. KLX-500-1U is plug-and-play ready for easy set-ups, and chainable with other KLX extenders to connect with workstations over 500 feet away. A simple yet powerful system enhancing tool for any working environment. Don't let distance limit your systems: go further with the KLX-500-1U.

## FEATURES

- Extends KVM operation by 500 feet via LAN (Cat5e/6 cables)
- Chainable for thousands of feet of extension
- Supports DVI monitors
- Integrated VGA-to-DVI source converter
- Supports full USB Keyboard-Mouse emulation
- Audio input and output
- Supports dual Keyboard, Video, Mouse control operation with KVM devices
- Supports 1080p up to 1920x1080 resolution at 60 Hz
- Plug-and-Play ready; industrial enclosure

## HARDWARE INSTALLATION

1. Power off all devices prior to connecting them.
2. Connect the KLX-500-1U-TX transmitter to the computer with a USB Type A to Type B cable.
3. Connect the computers DVI output to the KLX-500-1U-TX DVI input. See Note below if VGA output is required.
4. Optionally connect the computers audio and microphone jacks to the KLX-500-1U-TX.
5. If you want local access you may optionally connect a DVI monitor to the DVI output on the KLX-500-1U-TX and a USB keyboard and mouse to the KLX-500-1U-TX USB ports marked for keyboard and mouse.
6. Connect a CAT 5/5e/6 cable to the KLX-500-1U-TX.
7. Connect a CAT 5/5e/6 cable to the KLX-500-1U-RX.
8. Connect a DVI monitor to the DVI output on the KLX-500-1U-RX.
9. Connect a USB keyboard and mouse to the KLX-500-1U-RX USB ports marked for keyboard and mouse.
10. Optionally connect speakers and a microphone to the KLX-500-1U-RX.
11. Power on all devices.
12. Press and release the SW button on the KLX500-RX to learn EDID from the connected monitor. The Link LED will go out and come back on flashing once the EDID is learned.

**\* NOTE: You can connect a computers VGA output port using a VGA to DVI-I Adapter on the TX DVI input port. The RX DVI output port is compatible with VGA. The TX DVI output port is not compatible with VGA.**

