4K/UHD KVM Extenders (4K@60, 4:4:4) with POE

KVM-SET-17
USER MANUAL v.2

Overview

KVM-SET-17 can extend HDMI 2.0 UHD computer signals up to 100 meters with USB 2.0 over a single CAT6 cable.

Package Contents

- 1 x KVM-1-UHD-Tx-POE (Transmitter)
- 1 x KVM-1-UHD-Rx-POE (Receiver)
- 1 x Power adapter DC48V with lock +2 x mounting plates

Features

- Supports 4K@60Hz(4:4:4)
- Supports 1080P@120Hz
- Supports HDCP 1.4/2.2/2.3
- HDMI loop through
- Extends HDMI 2.0 signals up to 100 meters
- Supports POE
- Supports USB 2.0
- Supports 3D and CEC pass-through
- Supports bi-directional RS-232
- Supports all frequency IR control
- Supports LPCM, Dolby True HD and Dobly Digital audio

Specifications

Function	KVM-1-UHD-Tx-POE	KVM-1-UHD-Rx-POE
HDMI In Connectors	1 x HDMI Type A Female	
HDMI Out Connectors	1 x HDMI Type A Female	1 x HDMI Type A Female
RJ45 Connectors	1 x RJ45 for HDBaseT	
USB	USB B x1, USB A x 2	USB-A-Type Female x 2
SPDIF Input		Toslink Jack x 1
SPDIF Output	Toslink Jack x 1	
RS-232 Connectors	DB9 female	
IR In/Out	3.5ψ Stereo Jack x 1	
Audio In/Out	3.5ψ Stereo Jack x 1	
DIP SW	3 Pin x 1	
LED	4 in 1 LED x 1	
DC Jack	48V	
Max Resolution	4K60Hz	
Max Distance	100 meters	
Weight	415g	405g
Dimensions (LxWxH)	152 x 115 x 20 mm	

FRONT VIEW (Transmitter)

1. USB 2.0 (USB Device)
2. USB 2.0 (USB Host)
3. SPDIF Out
4. Rs232
5. IR out (IR blaster)
6. IR In (IR receiver)
7. DIP Switch   Pin 1 –   OFF: DEFAULT
                                   ON: FW upgrade mode
                  Pin 2 -   Reserved
                  Pin 3 -   OFF: HDBT Mode
                                   ON: Long Reach Mode
8. POWER / VIDEO / LINK / MODE LED

FRONT VIEW (Receiver)

1. USB 2.0 (USB Device)
2. SPDIF Out
3. Rs232
4. IR out (IR blaster)
5. IR In (IR receiver)
6. DIP Switch   Pin 1 –   OFF: DEFAULT
                                   ON: FW upgrade mode
                  Pin 2 -   Reserved
                  Pin 3 -   OFF: HDBT Mode
                                   ON: Long Reach Mode
7. POWER / VIDEO / LINK / MODE LED

REAR VIEW (Transmitter)

1. Power 48V DC
2. LINK Out (RJ-45 Connector)
3. HDMI In / Out
4. Audio In

REAR VIEW (Receiver)

1. LINK In (RJ-45 Connector)
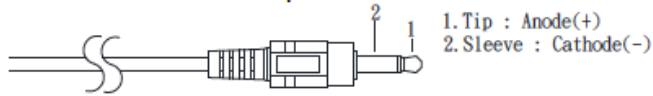2. HDMI Out
3. Audio Out
4. Audio In

Installation

1. Turn off source and display
2. Connect the HDMI cable between the source and the transmitter
3. Connect the HDMI cable between the display and the receiver
4. Connect the LAN (RJ45) cable between the transmitter and receiver
5. Connect mouse and keyboard
6. Connect the CAT cable between transmitter and receiver
7. Connect the power to both transmitter and receiver
8. Power on the source and display

Cable Length Specification

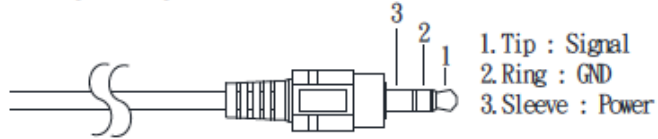| Cable Type	Mega-characters per second, per channel (Mcsc)	HDBaseT Link Rate	Max Video resolution	Range - Typical
CAT6a(U/FTP)	450 <Mcsc <=594	16Gbps	4K/60Hz/4:4:4 video formats	100 meters (straight) 70 meters (with patches)
	<=450	12Gbps	4K/60Hz/4:2:0 HDR 12bit video	100 meters (with patches)
CAT5e/CAT6 (UTP)	450 <Mcsc <=594	16Gbps	4K/60Hz/4:4:4 video formats	40 meters (straight) 30 meters (with patches)
	<=450	12Gbps	4K/60Hz/4:2:0 HDR 12bit video	70 meters (with patches)

IR Blaster Cable:
Connect the IR blaster cable to <IR OUT> port

1. Tip : Anode(+)
2. Sleeve : Cathode(-)

IR Receiver Cable:
Connect the IR blaster cable to <IR OUT> port

1. Tip : Signal
2. Ring : GND
3. Sleeve : Power