LENKENG®

4K@60Hz HDMI EXTENDER 120m

Model Code: LKV582KVM

This 4K@60Hz HDMI KVM extender kit comprises a transmitter and a receiver, utilizing ipcolor STREAM technology to achieve high-definition, low-latency transmission. Extending the 4K@60Hz HDMI signal up to 120m is possible through category 6 and above network cables. The system supports one-to-one connection, one-to-many connection via a gigabit switch, or switch cascading. Additionally, it features HDMI loop out, KVM functionality, and RS-232 passthrough, making it suitable for diverse applications such as meetings, home entertainment, educational presentations, and various other fields.

Features

- Implementing ipcolor STREAM technology enables achieving high-definition and low-latency transmission
- Capable of supporting resolutions up to 3840 x 2160@60Hz, with backward compatibility
- Compatible with Cat5/5e/6 or higher-grade network cables, offering a transmission distance of 120 meters for Cat6 cables
- Enables one-to-one or one-to-many connections through the gigabit switch
- Provides support for RS-232 passthrough
- The transmitter includes HDMI loop-out functionality
- Support KVM control signal passback.
- Firmware upgrades can be performed through the Micro USB interface
- Equipped with lightning protection, surge protection, and ESD protection
- Transmitter includes a 3.5mm audio input for sound embedding, and the receiver has an independent 3.5mm audio output.
- 24/7 Continuous Operation

Specifications

Video Specifications

	Transmitter	Receiver
Input interface	1x HDMI	1x RJ45
Output interface	1x HDMI, 1x RJ45	1x HDMI
HDMI Length	≤ 5m	≤ 5m
Max Transfer Rate	18Gbps	
Compatibility	HDMI 2.0	HDMI 1.4/HDCP 2.2	
Resolutions	3840x2160@24/30/50/60Hz, 1080p@50/60Hz, 720p@50/60Hz, 1920x1200@60Hz, 2560x1440@60Hz, 2560x1600@60Hz	
Connection types	One-to-one connection, One-to-many connection, Switch cascading	
Transmission distance	Cat6/6A/7≤120m	
Transmission latency	80~140ms	

Audio Signal

	Transmitter	Receiver
Input interface	1x HDMI	1x 3 . 5mm L/R	1x RJ45
Output interface	1x RJ45	1x HDMI	1x 3.5mm L/R
HDMI output	LPCM 2.0	
3. 5mm L/R output	PCM	

Command Signal Specifications

RS-232 (GND/RXD/TXD)	Default baud rate: 115200	Supported: 2400, 4800, 9600, 19200, 38400, 57600, 115200

Power Specifications

	Transmitter	Receiver
Power Supply	DC 5V/1A	DC 5V/1A
Power Consumption	TX ≤ 5.5W	RX ≤ 4.5W

Operating Enviroment

Working temperature	-20°C~60°C
Storage temperature	-30°C~70°C
Humidity	0~90%RH (no condensation)

Physical Properties

	Transmitter	Receiver
Housing	Iron	
Weight	TX: 315g	RX: 307g
Color	Black	
Dimensions	106.0(L)*103.0(W)*20.6(H)mm	
Protection	ESD protection, 1a Contact discharge level 2 (±4KV), 1b Air discharge level 3 (±8KV), Implementation of the standard: IEC61000-4-2 Lightning protection, Surge protection	