



HDMI KVM IP Extender Set



Manual
DS-55507

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1. Introduction

The HDMI KVM IP Extender Set comprises a transmitter unit (positioned locally) as well as a receiver unit (positioned at a distance). The HDMI signal can be extended using a network cable (Cat5e, CAT 6, CAT 6A, CAT 7) up to a maximum distance of 150 m (point-to-point connection). The HDMI signal can also be extended to an unlimited distance using the existing network infrastructure or using standard IP network switches (IP connection). The highest supported video resolution is Full HD (1920x1200/60 Hz, 4:4:4). The set also enables convenient access to a computer (mouse and keyboard) using the USB ports on the receiver unit. The set is perfectly suited for industrial, commercial and public sector applications.

2. Main Features

- Extends the maximum length for HDMI cables to up to 150 m via a simple network cable
- Extension of the signal (unlimited distance) via the existing local network infrastructure or commercial network switches (IP connection)
- Supports video resolutions up to: Full HD (1920x1200/60 Hz, 4:4:4)
- KVM functionality for connection to mouse and keyboard
- Supports Cat5e, CAT 6, CAT 6A, CAT 7, CAT 8 network cable
- IR transmission
- Compact design for easy and flexible installation
- Sturdy metal housing

3. Package Contents

- 1x Transmitter unit
- 1x Receiver unit
- 1x IR transmission cable (1.5 m)
- 1x IR receiver cable (1.5 m)
- 2x Power adapter (DC 5V/1A, 1.5 m)
- 1x USB-B-A cable (1.5 m)
- 1x User manual

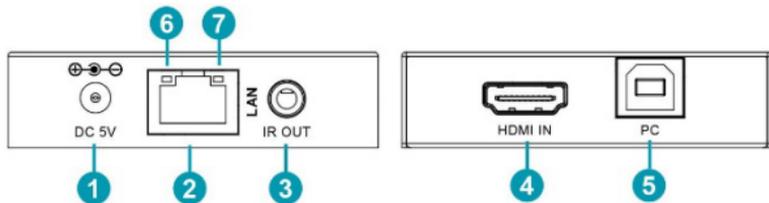
4. Specification

Technical	
HDCP Compliance	HDCP 1.4
USB Version	USB 1.1
Video Bandwidth	6.75Gbps
Video Resolution	640x480@60Hz~1920x1200@60Hz
HDMI Audio Formats	LPCM 2.0CH, 32KHz, 44.1KHz, 48KHz
IR Frequency	20Hz ~ 60KHz
Compression Technology	H.265
Request for Switcher /Router	Support 1 GMP, Support DHCP
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2
Color Depth	8/10/12-bit
ESD Protection	Human body model ±8kV (Air-gap discharge) ±4kV (Contact discharge)
Connections	
Encoder	Inputs: 1×HDMI Type A [19-pin female] Outputs: 1×LAN [RJ45 connector] Control: 1×IR OUT [3.5mm Stereo Mini-jack] 1×USB [USB-B, female]
Decoder	Inputs: 1× CAT [RJ45 connector] Outputs: 1× HDMI Type A [19-pin female] Control: 1× IR IN [3.5mm Stereo Mini-jack] 2× USB [USB-A, female]

Mechanical	
Housing	Metal Enclosure
Silkscreen Color	Black
Dimensions	67mm (W) × 91.5mm (D) × 17.5mm (H)
Weight	Encoder: 155g, Decoder: 150g
Power Supply	Input: AC100 - 240V 50/60Hz Output: DC 5V/1A
Power Consumption	Encoder: 1.4W, Decoder: 1.7W
Operating Temperature	-10°C ~ 50°C / 14°F ~ 122°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)
Resolution / Distance	1920x1200@60Hz - Feet / Meter
CAT 5e/6 cable	492ft / 150 meters
Resolution / Cable length	1920x1200@60Hz - Feet / Meter
HDMI IN / OUT	50ft / 15 meters

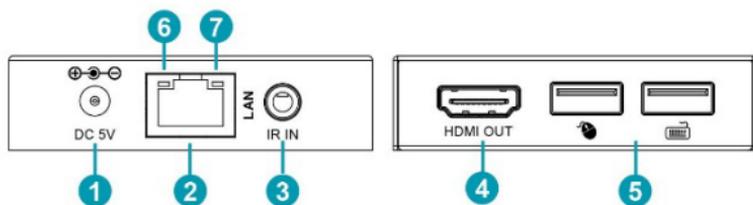
5. Operating Controls and Functions

5.1 Encoder Panel



No.	Name	Function description
1	DC 5V	5V 1A input for power supply
2	LAN	The LAN port is connected to decoder's LAN port or connected to switcher / router / hub with CAT cable
3	IR OUT	Connect to IR blaster cable. The IR blaster signal is from IR IN of decoder
4	HDMI IN	HDMI source input
5	PC	Connect to PC. The PC can be controlled for USB port of decoder. (KVM function)
6	Data signal indicator (orange)	The lamp flickers when the LAN port is transmitting signal
7	Power LED indicator (green)	The lamp is on when encoder is powered on

5.2 Decoder Panel



No.	Name	Function description
1	DC 5V	5V 1A input for power supply
2	LAN	The LAN port is connected to encoder's LAN port or connected to switcher / router / hub with CAT cable
3	IR IN	Connect to IR receiver cable. The IR signal is sent to IR OUT port of encoder
4	HDMI OUT	HDMI output for display
5	Two USB port	USB 1.1 for connecting mouse and USB keyboard
6	Data signal indicator (orange)	The lamp flickers when the LAN port is transmitting signal
7	Power LED indicator (green)	The lamp is on when decoder is powered on

6. Application Example

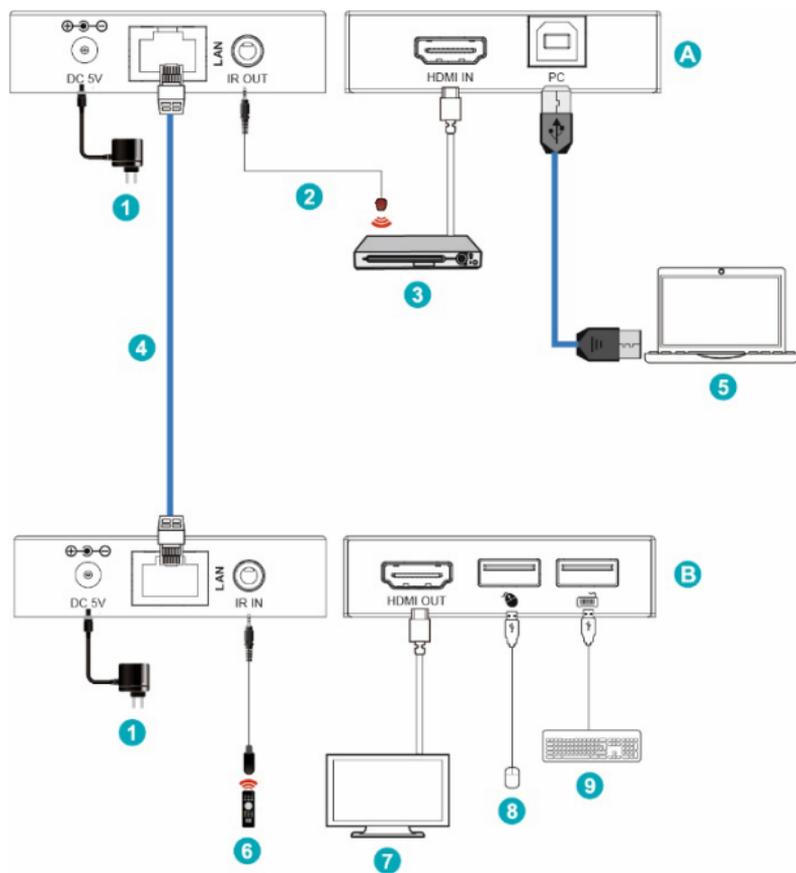


Figure 1: Encoder directly connects to Decoder

A	Encoder	5	PC
B	Decoder	6	IR Receiver
1	Power Supply	7	TV
2	IR Blaster	8	Mouse
3	DVD or Blu-ray Player	9	USB Keyboard
4	Ethernet Cat5e/6		

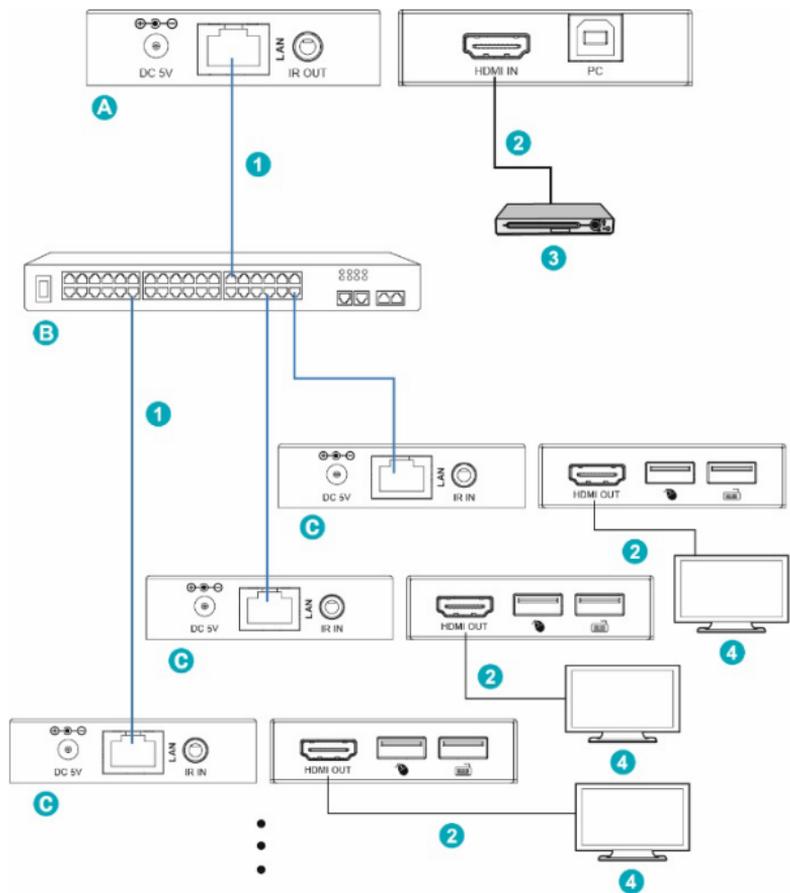


Figure 2: Encoder connects to Decoder via a switch
(One Encoder to multiple Decoders)

A	Encoder	2	HDMI cable
B	Switcher	3	DVD or Blu-ray Player
C	Decoder	4	TV
1	Ethernet Cat5e/6		

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