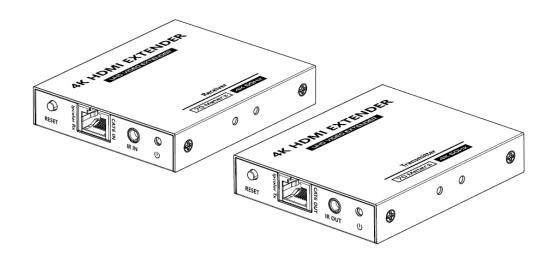
Manufactured in China for:
DELTA-OPTI Monika Matysiak,
60-713 Poznan, 10 Graniczna St., Poland
www.shopdelta.eu

# User Manual HDMI+USB-EX-70-4KV2





#### **Important Safety Instructions:**

- To prevent electric shock, please ensure that all devices are properly grounded.
- Do not place this device near or over a radiator or heat register, or where it is exposed to direct sunlight.
- Place the device in a well-ventilated area, do not block any ventilation openings.
- 4. Do not expose this device to rain or place it near water. Any liquid that goes into the device may cause a failure, fire, or electric shock.
- 5. Do not place the device on an uneven or unstable surface. The device may fall resulting in a malfunction.
- Never insert anything metallic into the open parts of this device. This may cause a danger of electric shock.
- 7. The device should be repaired only by a qualified technician.
- 8. If a third-party power supply is used, please ensure that the power supply specifications meet the product requirements.

## I. Introduction

This is an HDMI point-to-point extender kit, it can realize zero-latency transmission. The 4K@60Hz HDMI signal can be extended by 70m through CAT6/6A/7 network cable. It supports HDMI loop out, KVM function, 3.5mm stereo audio output, etc. This kit is a reliable, ultra-high-definition video transmission solution, which is widely used in security monitoring, home theater, broadcasting, training and other fields.

#### II. Features

- 1. Zero-latency transmission.
- 2. Extend 4K@60Hz HDMI signal up to 70m/230ft over Cat6/6A/7 cable.
- 3. Compatible with a wider range of screen resolutions such as 3440x1440, 2560x1440,

2560x1080, 2048x1080, 1920x1440

- 4. Support KVM function.
- 5. Support HDR10.
- 6. The transmitter supports HDMI loop out.
- 7. The receiver supports 3.5mm stereo audio output.
- 8. Support EDID pass-through and auto down-scaling.
- 9. Lightning protection, surge protection, ESD protection.

### **III.** Package Contents

Transmitter x1

Receiver x1

DC5V/1A x2

USB cable x1

User manual x1

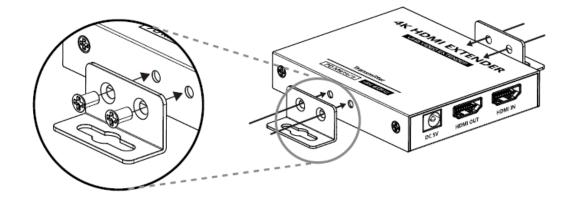
Mounting ear x4

Screw x10

### **IV.** Installation Requirements

Item	Description	Requirement
Signal source device	PC, DVD, NVR, etc. with HDMI port	HDMI cable ≤ 5m
Cable	CAT6/6A/7, following standard IEEE-568B	CAT6/6A/7 ≤ 70m
Display device	TV, projector, LED screen, etc. with HDMI port	HDMI cable ≤ 5m

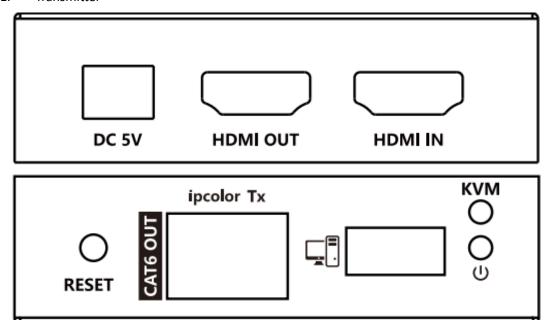
## V. Wall Mounting



Choose the wall mounting position and attach the mounting ears to the unit according to the diagram.

## VI. Panel Description

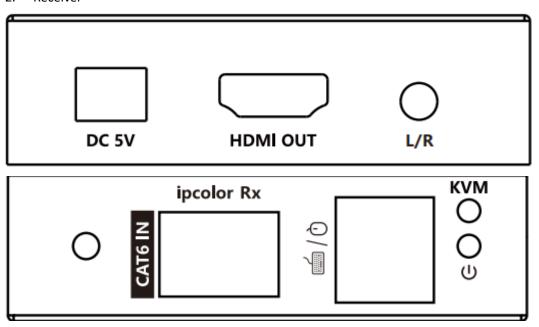
## 1. Transmitter



1	Power Input	Connect with DC5V power adapter
2	HDMI Out	Connect with HDMI display device
3	HDMI In	Connect with HDMI source device
4	Reset Button	Press to restart the device
5	RJ45 Output	Connect with CAT6/6A/7 network cable
6	USB-A Port	Connect to the computer with USB cable
7	KVM Indicator	1) Light off: the computer and the USB port have

		not established a connection	
		2) Steady on: the computer and the USB port are	
		Connected	
		3)	Light flashing: the KVM data is transmitting
8	Power Indicator	1)	Light flashing: the power is on, but no HDMI signal is
			transmitted
		2)	Steady on: the HDMI signal is transmitting

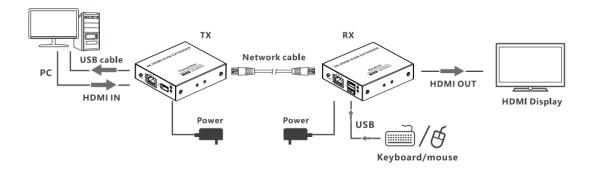
## 2. Receiver



1	Power Input	Connect with DC 5V/1A power adapter	
2	HDMI Out	Connect with HDMI display device	
3	L/R stereo audio output	Connect with speaker	
4	Reset Button	Press to restart the device	
5	RJ45 Input	Connect with CAT6/6A/7 network cable	
6	USB-A Port	Connect with the mouse and keyboard	
7	KVM Indicator	1) Light off: the computer and the USB port have	
		not established a connection	
		2) Steady on: the computer and the USB port are	
		connected	
		3) Light flashing: the KVM data is transmitting	
8	Power indicator	1) Light flashing: the power is on, but no HDMI signal is	
		transmitted	
		2) Steady on: the HDMI signal is transmitting	

#### VII. Installation Procedures

#### 1. Connection Diagrams



#### 2.Connection Instructions

- Connect the source device to the HDMI IN port of the transmitter with an HDMI cable, and connect the HDMI OUT port of the receiver to the display device with another HDMI cable.
- 2) Use a Cat6/6A/7 cable to connect the RJ45 port of the transmitter and receiver.
- 3) If using the KVM function, connect the keyboard/mouse to the USB port of the receiver and connect the computer to the USB port of the transmitter via the USB cable.
- 4) If using HDMI loop out, connect the display device to the HDMI OUT port of the transmitter.
- 5) If you need to output audio additionally, connect the speaker to the L/R port with a 3.5mm stereo audio cable.
- 6) Plug the power supply into the devices to get started.

#### FAQ

Q: The devices are connected correctly, but why is there no image displayed?

A:

- 1) Please make sure the HDMI cable meets the transmission requirements. (e.g. 4k HDMI cable)
- 2) Please check and make sure the network cable is connected firmly.
- 3) Restart the transmitter or receiver by pressing the reset button.

Q: Why does the display occasionally have a black screen?

A:

- 1) Check if the length of the cable is within the specified range.
- 2) Restart the transmitter or receiver by pressing the reset button.

Q: Why is the display color abnormal or no sound?

A:

- 1) Check if the HDMI cables and the network cable are connected well.
- 2) Restart the transmitter or receiver by pressing the reset button.

## **VIII. Technical Parameters**

Item	Transmitter	Receiver	
Video			
Input interface	1x HDMI	1x RJ45	
Output interface	1x HDMI 1x RJ45	1x HDMI	
HDMI length	≤ 5m	≤ 5m	
Maximum transfer rate	18Gbps		
EDID pass-through	Supported, auto down-scaling		
Compatibility	HDMI 2.0 HDCP 2.2		
Resolutions	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz, 3840x2160@24/25/30/50/60Hz, 4096x2160@24/25Hz, 3440x1440, 2560x1440, 2560x1080, 2048x1080, 1920x1440, 1920x1200, 1280x960, 1280x800, 1280x768, 1680x1050, 1360x768, 1366x768, 1600x900, 1024x768, 800x600		
Transmission distance	CAT6/6A/7 ≤ 70m		
Audio			
Input interface	1x HDMI	N/A	
Output interface	1x HDMI	1x HDMI 1x 3.5mm L/R	

Audio formats	LPCM/DTS-HD/DTS-Audio/Dolby Digital 5.1CH/Dolby Atmos				
Command Signal					
USB version	USB1.1, compatible with USB1.0				
Power					
Power Supply	DC 5V/1A DC 5V/1A				
Power Consumption	< 4W < 4W				
Operating Environment	t				
Working temperature	-20°C~60°C				
Storage temperature	-30°C~70°C				
Humidity	0~90%RH (no condensation)				
Physical Properties					
Housing	Iron				
Weight	155g 155g				
Color	Black				
Dimensions	85.0(L)x71.5(W)x21.5(H)mm				
	ESD protection				
	1a Contact discharge level 2 (±4KV)				
Protection	1b Air discharge level 3 (±8KV)				
	Implementation of the standard: IEC61000-4-2				
	Lightning protection, Surge protection				

#### Disclaimer

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