

# DIREKTRONIK

25-0557

## 50M HDMI+USB KVM Extender

**OPERATION MANUAL**



## Operating Instructions

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Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

## **SAFETY PRECAUTIONS**

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.

Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

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### **1. INTRODUCTION**

This Model allows HDMI signals to be transmitted over a Single CAT5e/6 cable . It can extend 1080p@60Hz over single Cat5e/6. The transmit distance up to 100m over single Cat5e/6 cable, and 50m over single Cat5e/6 cable under USB mode. It supports PCM2.0 and USB2.0 pass through.

### **2. APPLICATIONS**

- Household entertainment sharing and control
- Lecture room display and control
- Meeting room presentation and control
- Classroom display and control

### **3. PACKAGE CONTENTS**

- ① Main Unit: HDMI Extender( Transmitter& Receiver)
- ② 1x Power Adapter DC 12V
- ③ 1x USB 2.0 AM to BM Cable
- ④ 1x User's Manual

### **4. SYSTEM REQUIREMENTS**

Input HDMI source equipment such as DVD/Blu-ray player PC and HDMI equipped output display (TV or monitor).

### 5. Features

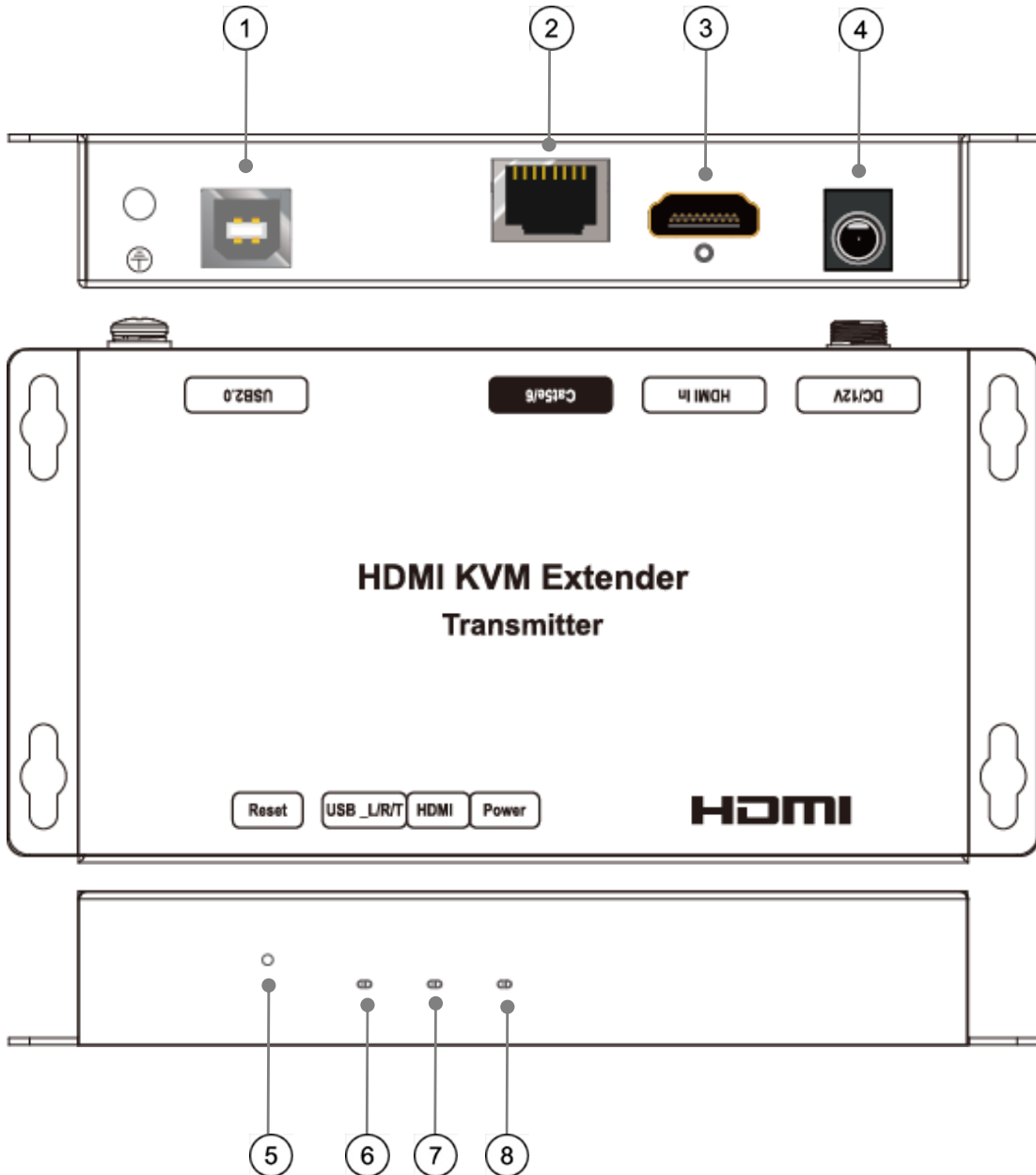
- Each set includes one transmitter and one receiver
- Transmit distance up to 100m over single Cat5e/6 cable under Non-USB mode
- Transmit distance up to 50m over single Cat5e/6 cable under USB Mode
- USB 2.0 pass through
- Support Full HD 1080P@60Hz, and bandwidth 1.65Gbps.
- Support Dual POC(RX powered by TX or TX powered by RX)
- HDCP1.4 compliant
- Support PCM2.0, audio sampling rate: 44KHz, 48KHz.
- Power Supply DC12V

### 6. Specifications

Operating Temperature Range	-10 to +45°C (14 to +113°F)
Storage Temperature Range	-15 to +70°C (5 to +158°F)
Operating Humidity Range	5 to 90%RH (No Condensation)
Support Video Format	DTV/HDTV: 480P/576P/720P/1080P VESA:640x480, 800x600, 1024x768, 1280x1024, 1680x1050, 1280x720, 1360x768
Connector on Transmitter	1x HDMI Input , 1x USB B Type 1xRJ45 Output
Connector on Receiver	1xRJ45 Input 1x HDMI Output, 4x USB A Type
Transmission Distance	100m (Max) over single Cat5e/6 /24AWG/Solid under Non-USB Mode 50m(Max) over Single Cat5e/6 /24AWG/Solid under USB Mode
USB Transmit speed	480M bit/s (Max)
Power consumption	4.8W( Max)
Dimension (L×W×H)	L84.2xW75.2xH27.5mm
Net Weight	Transmitter:257.5g ; Receiver:257.5g

## 7. OPERATION CONTROLS AND FUNCTIONS

### 7.1 Transmitter Front and Rear Panels

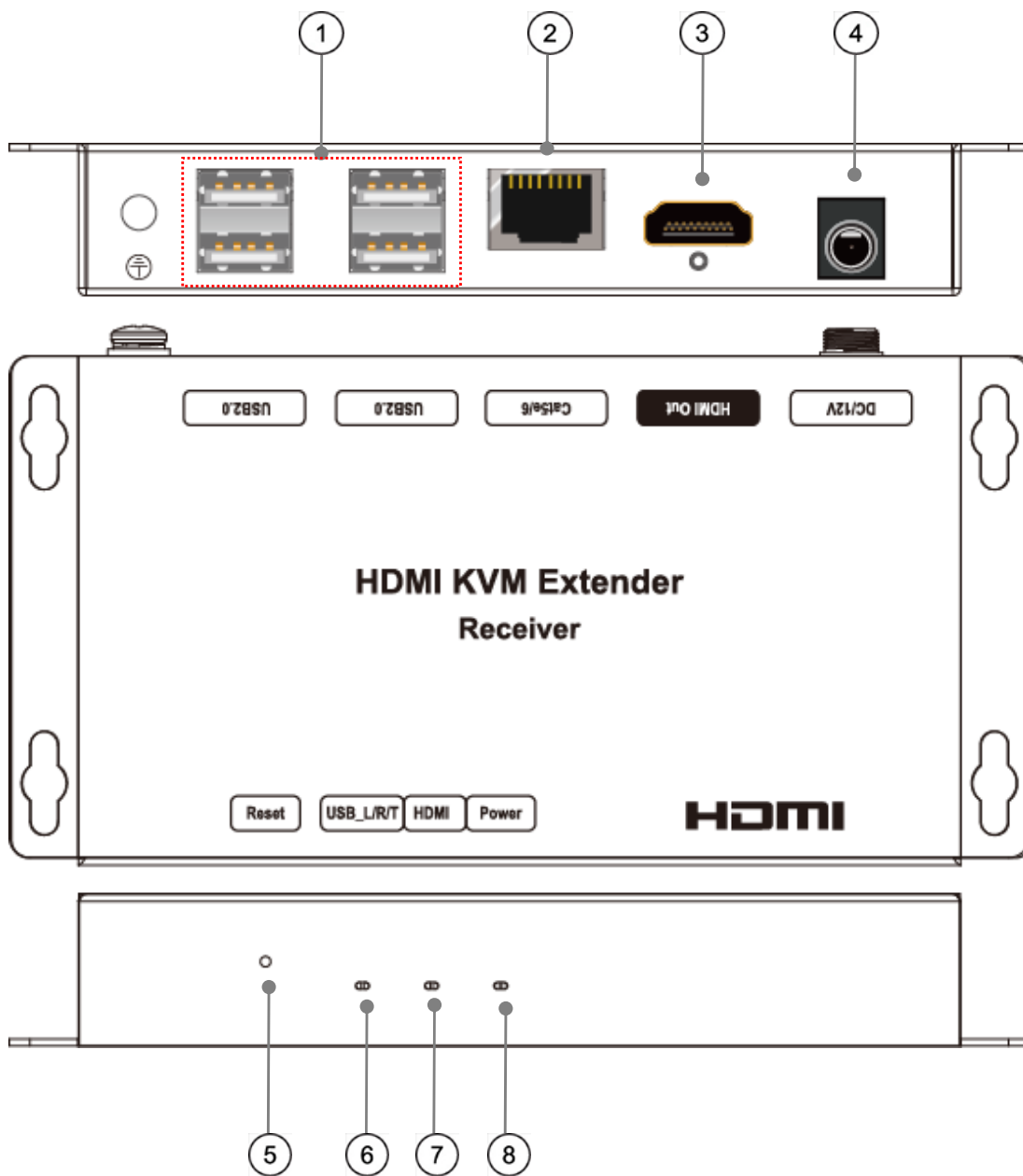


- ① USB Type B port
- ② Cat5e/6 output port
- ③ HDMI input port
- ④ Power input port
- ⑤ Reset key
- ⑥ Indicator of USB input
- ⑦ Indicator of HDMI input
- ⑧ Indicator of power



Reset: If you want to reset the HDMI Input, press the Reset button 3s. If the TV black, which means it is effective.

## 7.2 Receiver Front and Rear Panels



① USB Tpye A port

③ HDMI output port

⑤ Reset key

⑦ Indicator of HDMI output

② Cat5e/6 input port

④ Power input port

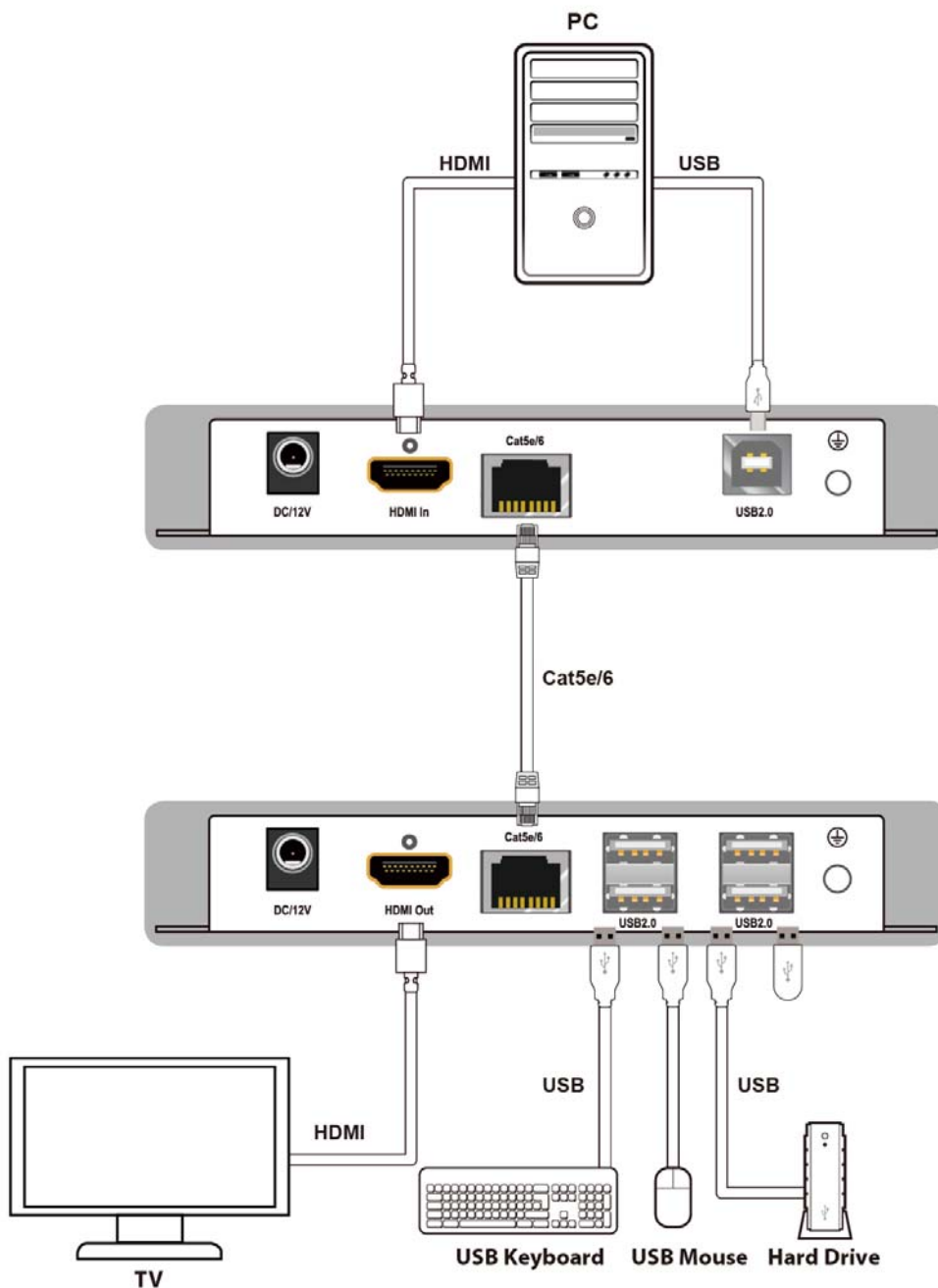
⑥ Indicator of USB output

⑧ Indicator of power

## 8. CONNECTION DIAGRAM

### Application 1: KVM

1. Connect one HDMI Cable between the HDMI output port of source device and the HDMI input port of Transmitter unit
2. Connect one UTP Cat5e or better cable between the RJ45 port of Transmitter unit and RJ45 port of Receiver unit.
3. Connect one HDMI Cable between the HDMI input port of display and the HDMI output port of Receiver unit.
4. Connect the PC to the transmitter by USB AM-USB BM cable.
5. Connect keyboard, mouse to the receiver.
6. Connect 12V DC power supply at Transmitter / Receiver.

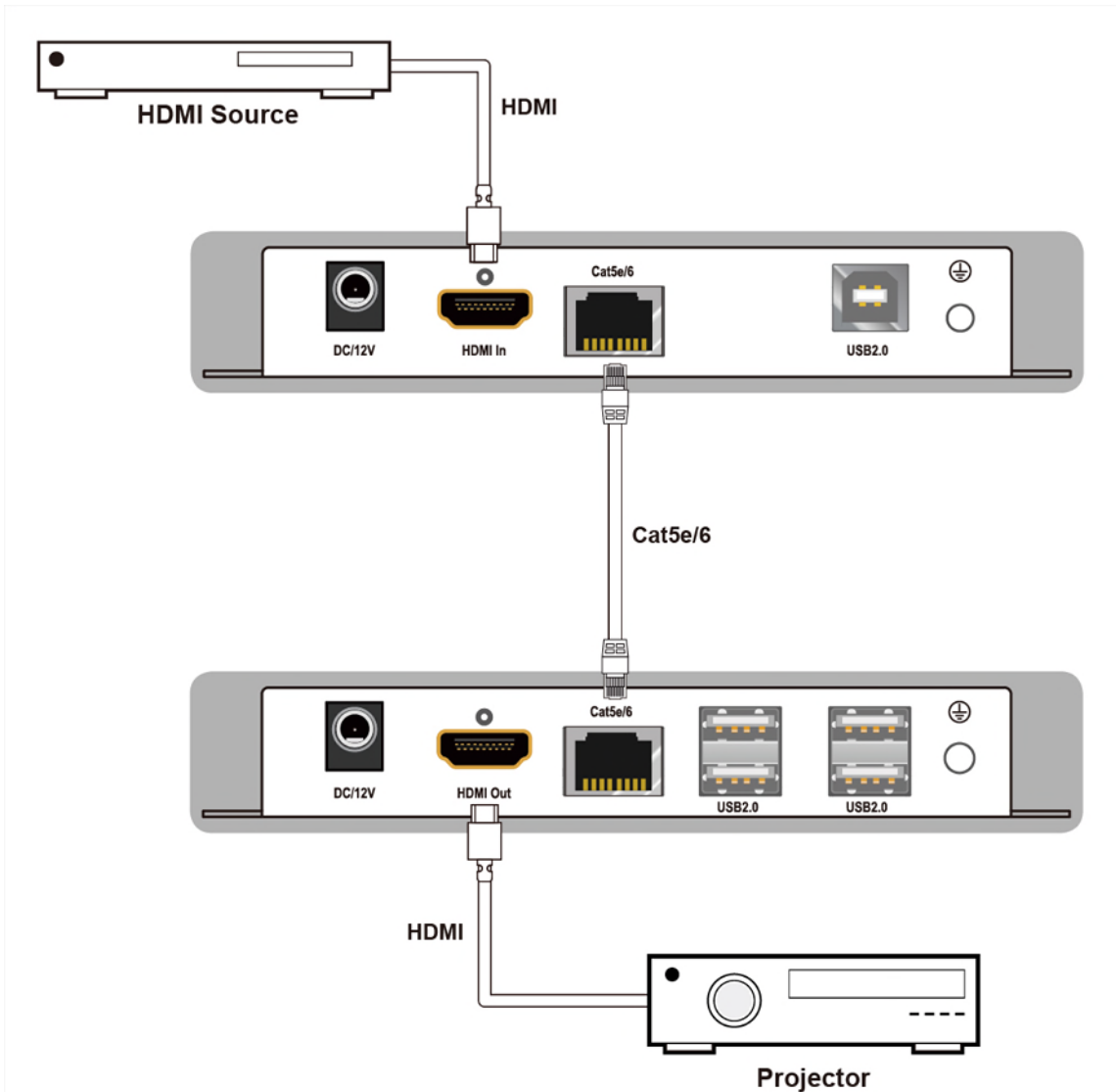




## Application 2:

### Point to point configuration:

1. Connect one HDMI Cable between the HDMI output port of source device and the HDMI input port of Transmitter unit
2. Connect one Cat5e/6 or better cable between the Transmitter and Receiver
3. Connect one HDMI cable between the HDMI Input of the display device and the HDMI Output port of the Receiver unit
4. Connect 12V DC power supply at Transmitter / Receiver.



## 9.MAINTENANCE

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or benzene to clean this unit.

## 10.PRODUCT SERVICE

### (1) Damage requiring service:

The unit should be serviced by qualified service personnel if:

- (a) The DC power supply cord or AC adaptor has been damaged;
- (b) Objects or liquids have gotten into the unit;
- (c) The unit has been exposed to rain;
- (d) The unit does not operate normally or exhibits a marked change in performance;  
The unit has been dropped or the cabinet damaged.

**(2) Servicing Personnel:** Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.

**(3) Replacement parts:** When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other Hazards.

**(4) Safety check:** After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

## 11.WARRANTY

If your product does not work properly because of a defect in materials or workmanship, our Company (referred to as "the warrantor" ) will, for the length of the period indicated as below, **(Parts(2)Year, Labor(90) Days)** which starts with the date of original purchase ("Limited Warranty period"), at its option either(a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor. During the "Labor" Limited Warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers product purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.