

# User Manual

## EK-100TR

HDCP1.4 328ft/100 meters distance over IP/ Cat5e



Version number: V1.01.01

## Contents

<b>1. Introduction.....</b>	<b>3</b>
<b>2. Features.....</b>	<b>3</b>
<b>3. Packing.....</b>	<b>4</b>
<b>4. Specification.....</b>	<b>4</b>
<b>5. Panels.....</b>	<b>5</b>
<b>6. Connection Diagram.....</b>	<b>6</b>
<b>7. After Sales.....</b>	<b>7</b>
<b>8. Version Information.....</b>	<b>7</b>

## 1. Introduction

This extender can extend the HDMI signal to 328fts/100meters over one single CAT5e/CAT6/CAT7 cable. It's compatible with all the HDTV formats, supports HDMI1.22, HDCP1.4 and one way IR transmission, the max resolution can up to 1080P@60Hz. With KVM function, it provided users to remote control the equipment. With indicators on the front panel, users will be much easier to know the equipment working status. Last but not least, this extender also can connect to the network switch, then it can realize one to many or many to many.

This equipment has popularly used in meeting room, military, bank, government, medical and so on fields.

## 2. Features

- Support all HD formats, the maximum resolution up to 1080P60Hz
- Over one single Cat5e/6 cable up to 100m transmission
- Support HDMI1.2, compatible with HDCP1
- Supports one way IR
- Supports KVM function to realize remote control
- Recommend Cat5e/ 6/ 7 cable, wiring standard is IEEE-568B
- Supports to connect with network switch to realize flexible inputs and outputs configuration

## 3. Packing

HDMI USB KVM Extender Transmitter	1	Pcs
HDMI USB KVM Extender Receiver	1	Pcs
12V/1.5A DC power adapter	1	Pcs

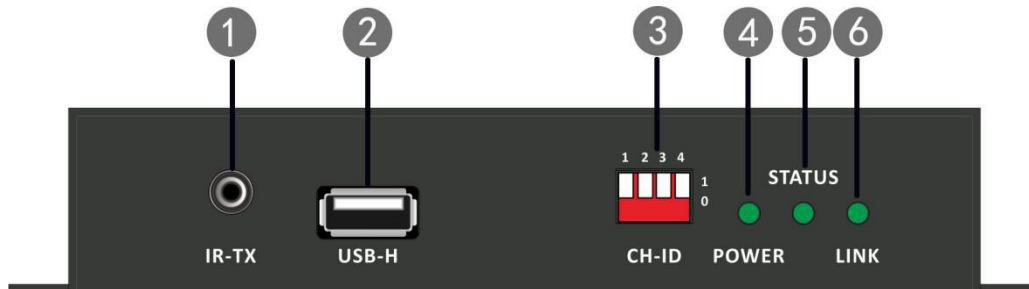
## 4. Specifications

Model	EK-100T	EK-100R
Input Ports	1 × HDMI, 1 × DC 12V, 1 × USB, 1 × IR	1 × HDBT, 1 × DC 12V, 2 × USB
Output Ports	1 × HDBT	1 × HDMI, 1 × IR
Protocol	Support HDMI1.2, compatible with HDCP1.4	
Resolution	Supports 1080P60Hz and below	
Control	IR remote control	
Transmission	100 meters or 328ft	
Power supply	AC:110V-240V 50/60Hz DC:12V 1.5A	
Consumption	2W	
Weight	0.8KG (one Tx and one Rx)	
Dimension	135 × 92 × 27 (mm)	

Working Temperature	0℃-55℃
Storage temperature	- 10℃-70℃

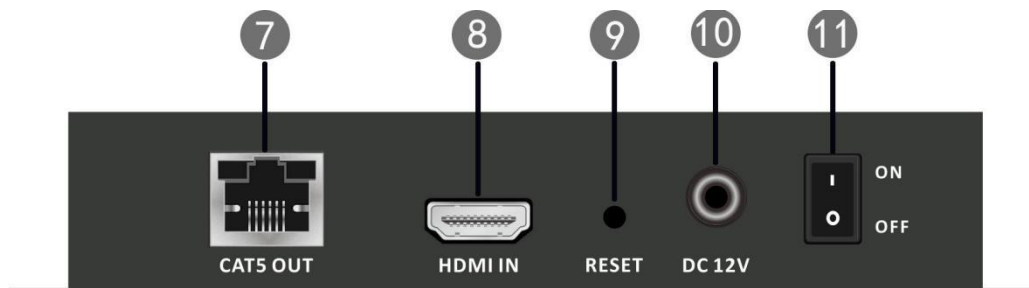
## 5. Panels

### 5.1 Transmitter: Front Panel



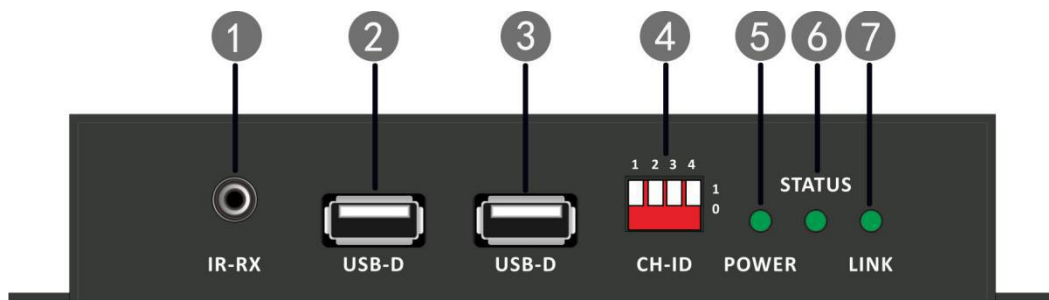
1. IR-TX: IR transmitter interface
2. USB-H: USB connect port
3. CH-ID: Channel DIP switch, to set up the network pairing ID number, the signal can be transmitted only while the IDs are the same. Many to many by the network switch
4. POWER: Power indicator
5. STATUS: System indicator
6. LINK: Connection status indicator

### 5.2 Transmitter: Rear Panel



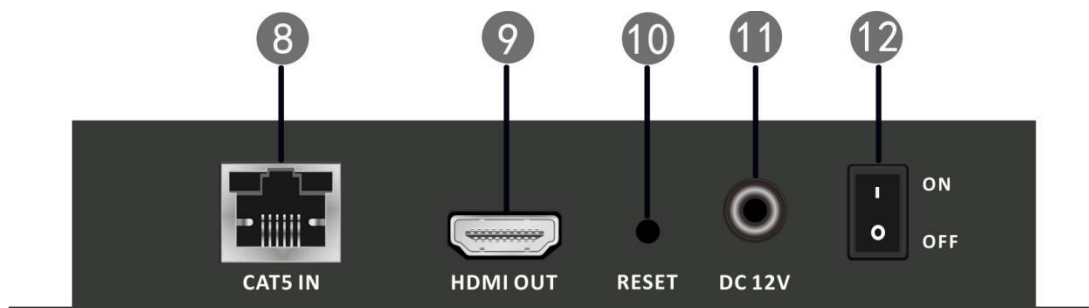
7. CAT5 OUT: It can be HDBT for AV transmission or IP interface to change IP address and upgrade
8. HDMI IN: HDMI input
9. RESET: Rest button, to hold off for 5 seconds to reset default mode
10. DC 12V: Power supply DC 12V
11. OFF/ON: Power switch

### 5.3 Receiver Front Panel



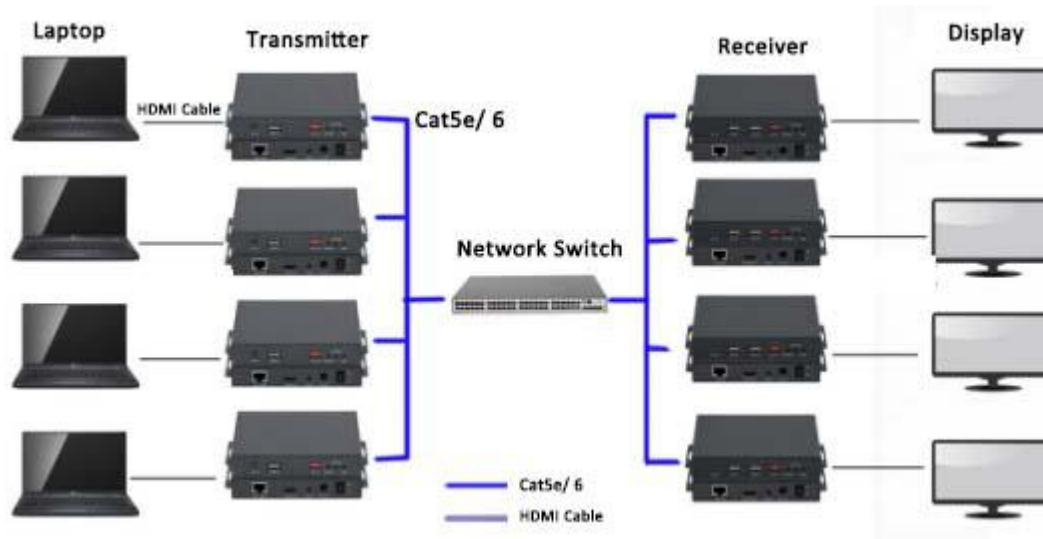
1. IR-RX: IR receiver interface
2. USB-D: USB port to connect USB mouse or keyboard
3. USB-D: USB port to connect USB mouse or keyboard
4. CH-ID: Channel DIP switch, to set up the network pairing ID number, the signal can be transmitted only while the IDs are the same. Many to many by the network switch
5. POWER: Power indicator
6. STATUS: System indicator
7. LINK: Connection status indicator

#### 5.4 Receiver Rear Panel



8. CAT5 OUT: It can be HDBT for AV transmission or IP interface to change IP address and upgrade
9. HDMI IN: HDMI output
10. RESET: Rest button, to hold off for 5 seconds to reset default mode
11. DC 12V: Power supply DC 12V
12. OFF/ON: Power switch

#### 6. Connection Diagram



**Note:** CH-ID is an adjustable DIP switch. Users have to keep the same ID for Tx and Rx, then it can transmit the audio and video signals. There are 16 different ID in total, it means it can connect with 16 different signals(also depends on the network switch). With this convenient DIP switch, users can realize flexible one to many or many to many configurations.

## 7. After-Sales

### 7.1 Warranty Information

The Company warrants that the process and materials of the product are not defective under normal use and service for 3 (3) years following the date of purchase from the Company or its authorized distributors.

If the product does not work within the guaranteed warranty period, the company will choose and pay for the repair of the defective product or component, the delivery of the equivalent product or component to the user for replacement of the defective item, or refund the payment which users have made.

The replaced product will become the property of the Company.

The replacement product could be new or repaired.

Whichever is longer, any replacement or repaired of the product or component is for a period of ninety (90) days or the remaining period of the initial warranty. The Company shall not be responsible for any software, firmware, information, or memory data contained in, stored in, or integrated with the product repaired by the customer's return, whether or not during the warranty period.

### 7.2 Warranty limitations and exceptions

Except above limited warranty, if the product is damaged by over usage, incorrectly use, ignore, accident, unusual physical pressure or voltage, unauthorized modification, alteration or services rendered by someone other than the Company or its authorized agent, the company will not have to bear additional obligations. Except using the product properly in the proper application or normal usage

## 8. Version Information

Description of version (Document number: HDMI KVM Extender over IP)		
Date	Version number	Description
Dec 2016	V1.01.01	First version