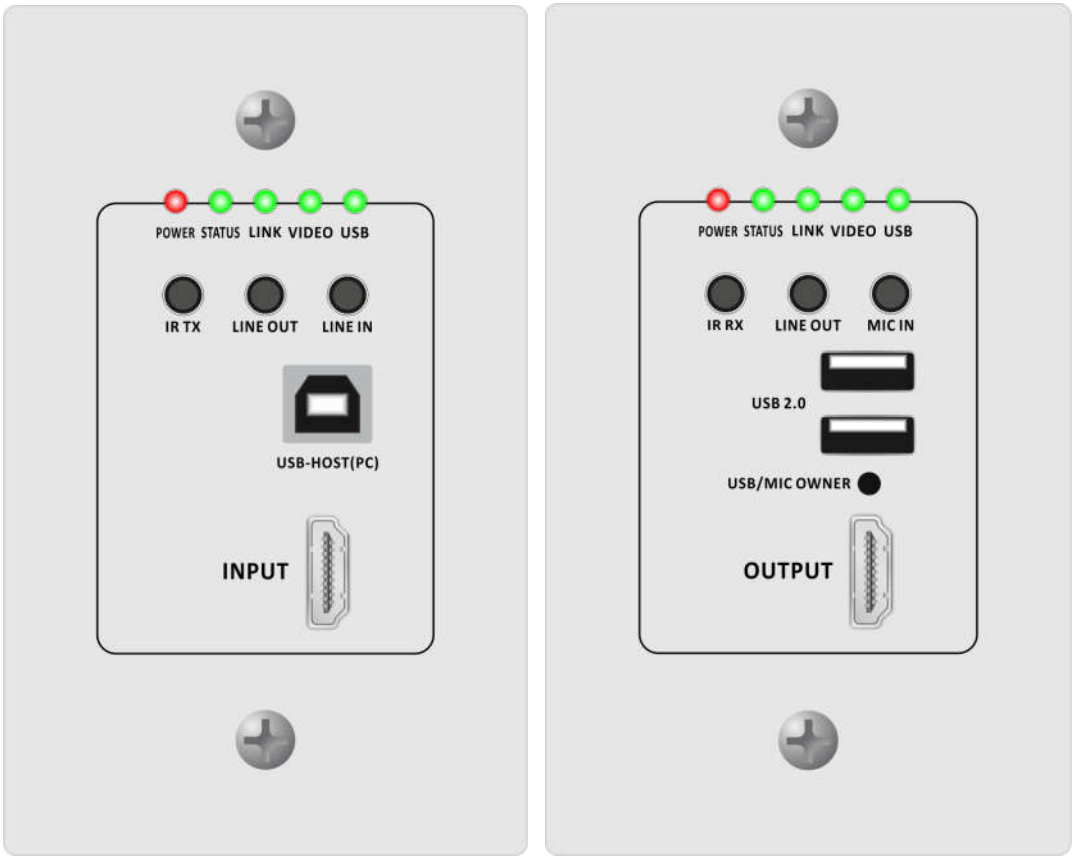
# USER MANUAL

**BKE-100W**

**4K HDMI+USB2.0 Wallplate kit with POC and audio**




Version: V2026.07

# Safety Reminder

To protect the device and operating personnel from electrostatic discharge, you need to check and ensure that the device is grounding well before the device is powered on. Please observe the following when you install, use, maintain this equipment.



Make sure the device ground connection.

***Important Safety Instructions***



**1.** Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.



**6.** Clean this apparatus only with dry cloth.



**2.** Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure the unit is well ventilated.



**7.** Unplug this apparatus during lightning storms or when unused for long periods of time.



**3.** To prevent risk of electric shock or fire hazard due to overheating, do not obstruct the unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.



**8.** Protect the power cord from being walked on or pinched particularly at plugs.



**4.** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



**9.** Only use attachments / accessories specified by the manufacturer.



**5.** Do not place sources of naked flames, such as lighted candles, on the unit.



**10.** Refer all servicing to qualified service personnel.

# Warnings of FCC

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and decoder.

-- Connect the equipment into an outlet on a circuit different from that to which the decoder is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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## 1. Product Introduction

It's a 4K HDMI+IR+USB2.0 Wallplate transmitter and Receiver kit. It also supports the HDMI or USB2.0 transmission only, so it can be used as USB2.0 over CAT extender. The HDMI resolution can up to 4k@30hz and the distance can up to 100m over single Cat6, also supports the the POC(power over cable), so that users can only power on either side with the power adapter. It's popularly used in the small meeting room, classroom or other long distance transmission applications.

## 2. Features

- Transmitter supports HDMI input+USB2.0, USB-B host and IR TX, LINE audio
- Receiver supports HDMI output+USB2.0, USB-A Ports and IR RX, LINE audio
- Supports HDCP1.4
- Transmission distance: 400ft/100m via Cat5e/Cat6 for both 1080P or 4K30
- Supports one-way IR transmission
- Supports the LINE audio in and out
- Supports POC(power over Cable)
- Supports multiple panel size(US 1-gang, UK 1-gang)
- LED working indicator

## 3. Specification

| **Product name** | **BKE-100W** |
|---|---|
| Transmitter | 1*HDMI, 1* 3.5mm audio, 1*USB2.0, 1*LAN(RJ45) out |
| Receiver | 1*HDMI output , 1* 3.5mm audio, 1*USB2.0, 1*LAN(RJ45) in |
| Video resolution | Up to 4K30 |
| Transmission distance | 330ft/100m via Cat5e/Cat6 for both 1080P or 4K30 |
| Bandwidth | 10.2Gbps |
| Power Supply | DC 12V 1.5A |
| Dimension (WxHxD) | 114*70*32.7mm |
| Product weight | 200g/0.45lb |
| Operating Temperature | -10°C to 40°C |

| | |
|---|---|
| Storage Temperature | -25°C to 55°C |

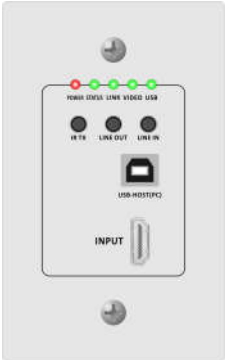
## 4. Connection Diagram

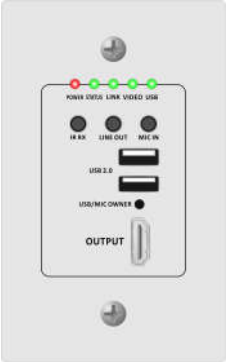



## 5. Packing

| No. | Name | Qty | Unit |
|---|---|---|---|
| 1 | HDBaseT Wallplate Transmitter/Receiver | 1 | Pcs. |
| 2 | DC 12V1.5A power adapter | 1 | Pcs |
| 3 | Rs232 connector | 1 | Pcs |

## 6. Panel description

| No. | Name | Function | |
|---|---|---|---|
| 1 | IR-TX | One-way IR Tx |  |
| 2 | INPUT | HDMI INPUT | |
| 3 | USB-HOST | USB-B for PC/host connection | |
| 4 | LINE OUT | 3.5MM audio out | |
| 5 | LINE IN | 3.5MM audio in | |

| No. | Name | Function | |
|---|---|---|---|
| 1 | IR-RX | One-way IR Rx |  |
| 2 | OUTPUT | HDMI OUTPUT | |
| 3 | USB2.0 | USB-A for USB2.0 devices | |
| 4 | LINE OUT | 3.5MM audio out | |
| 5 | LINE IN | 3.5MM audio in | |
| 6 | OWNER | For taking over USB rights | |



# 7. Common problem and notice

### 7.1 Common problem shooting

Please check below parts when the display showing no signal, audio, flicking, blue or black screen:

(1) Check the connection of the RJ-45 cable, HD cable

(2) Check the crystal connector and the RJ-45 cable is CAT5E/CAT6/CAT7

(3 ) Check the source input are correct

(4) Be aware of the status of the indicators and find out the problems

### 7.2 Notice

(1) All the RJ-45 cable, power cord should have the protection cover when assembling, better cover the cable to avoid out pressure to damage the cables

(2) Please don't hang up stuff over the cables, don't step on the cables to avoid short circuit and damage.

(3) Please pay attention to using the properly plugging in ways to avoid cable and port damage.

(4) Please avoid the liquid getting into the equipment to damage the product and short circuit.

# 8. After-Sales

### 8.1 Warranty Information

The Company warrants that the process and materials of the product are not defective under normal use and service for 2 (2) 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 (30) 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.

**8.2 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.