

# DVDO



DVDO-RS-3

HDBaseT Room Solution

**User Manual**

Version: V1.0.0

## **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.

## **Surge protection device recommended**

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

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## 1. Introduction

The HDBaseT extender enables transmission of video resolutions up to 4K2K @60Hz(YUV 4:4:4), along with HD audio, dedicated USB pathways, 2-Way IR, RS-232, POC signals up to 131ft/40m for 4K2K@60Hz(4:4:4) or up to 230ft/70m for 1080p60Hz through a single Cat6/6a cable. USB KVM function enables the USB transmission from the receiver to the transmitter. Using the latest HDBaseT 2.0 technology, DVDO-RS-3 can make your home or office set-up more efficient and easy to use.

## 2. Features

- HDMI 2.0b, HDCP 2.2 and HDCP 1.4 compliant
- Video resolutions up to 4K2K@60Hz(4:4:4), 4K2K@30Hz, 1080p@120Hz
- HDBaseT™ 2.0 over a single CAT6/6a cable up to 131ft/40m distance for 4K2K@60Hz(4:4:4) or up to 230ft/70m distance for 1080p60Hz
- 5-Play™ convergence: HD video & audio, IR/RS-232/POC
- Audio up to 7.1 channels of High Definition audio pass through (LPCM, Dolby TrueHD, and DTS-HD Master Audio)
- USB, CEC, RS-232 and two-way IR
- 24V POC (optional)

### 3. Package Contents

- ① 1× HDBaseT extender Receiver
- ② 1× User Manual
- ③ 1× Wideband IR Blaster cable
- ④ 1× Wideband IR Receiver cable
- ⑤ 2× Mounting ears
- ⑥ 1× 3-pin male Phoenix terminal
- ⑦ 1× 24V/1A Locking Power adaptor

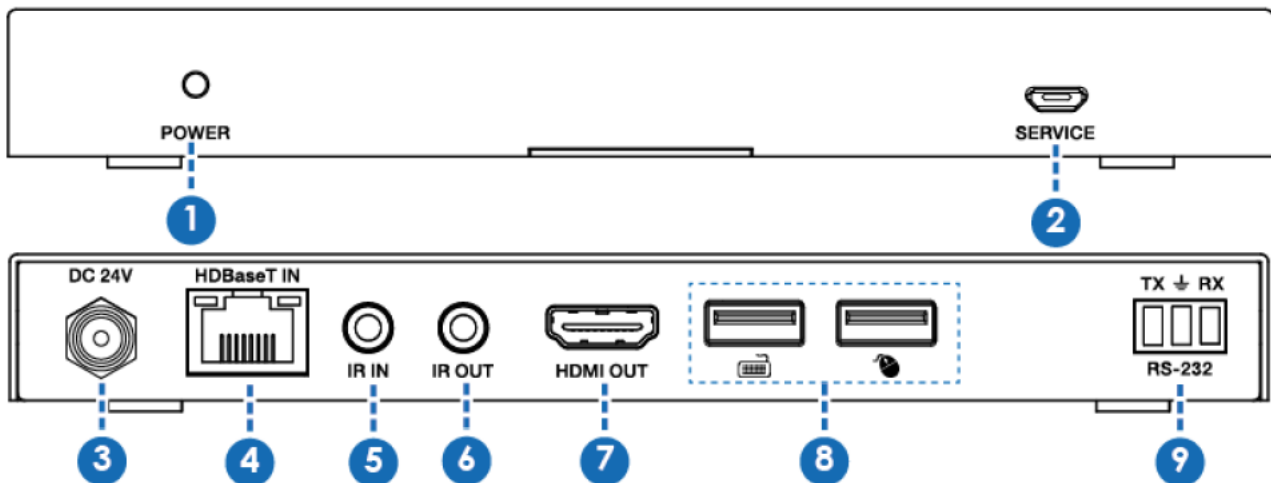
### 4. Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 1.4 and HDCP 2.2
Video Bandwidth	18Gbps
Video Resolution	up to 4K2K@50/60Hz(YUV4:4:4),4K2K@30Hz, 1080P@120Hz, and 1080P 3D@60Hz
Color Space	RGB/YCbCr 4:4:4, YCbCr 4:2:2
Color Depth	10-bit, 12-bit
HDMI Audio Formats	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
ESD Protection	Human body model—±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connections	
Receiver	Inputs: 1x IR INPUT [3.5mm Stereo Mini-jack] 1x RS-232 [Phoenix jack] 1x HDBaseT IN [RJ45] 2xUSB [USB Type A] 1x SERVICE [Micro USB] Outputs: 1x HDMI Type A [19-pin female] 1x IR OUTPUT [Phoenix jack]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	172mm [W] x 97.5mm [D] x 20mm [H]
Weight	420g
Power Supply	Input: AC100 - 240V 50/60Hz, Output: DC 24V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	7.5W
Operating	32 - 104° F / 0 - 40° C

Temperature	
Storage Temperature	-4 - 140° F / -20 - 60° C
Relative Humidity	20 - 90% RH (no condensation)

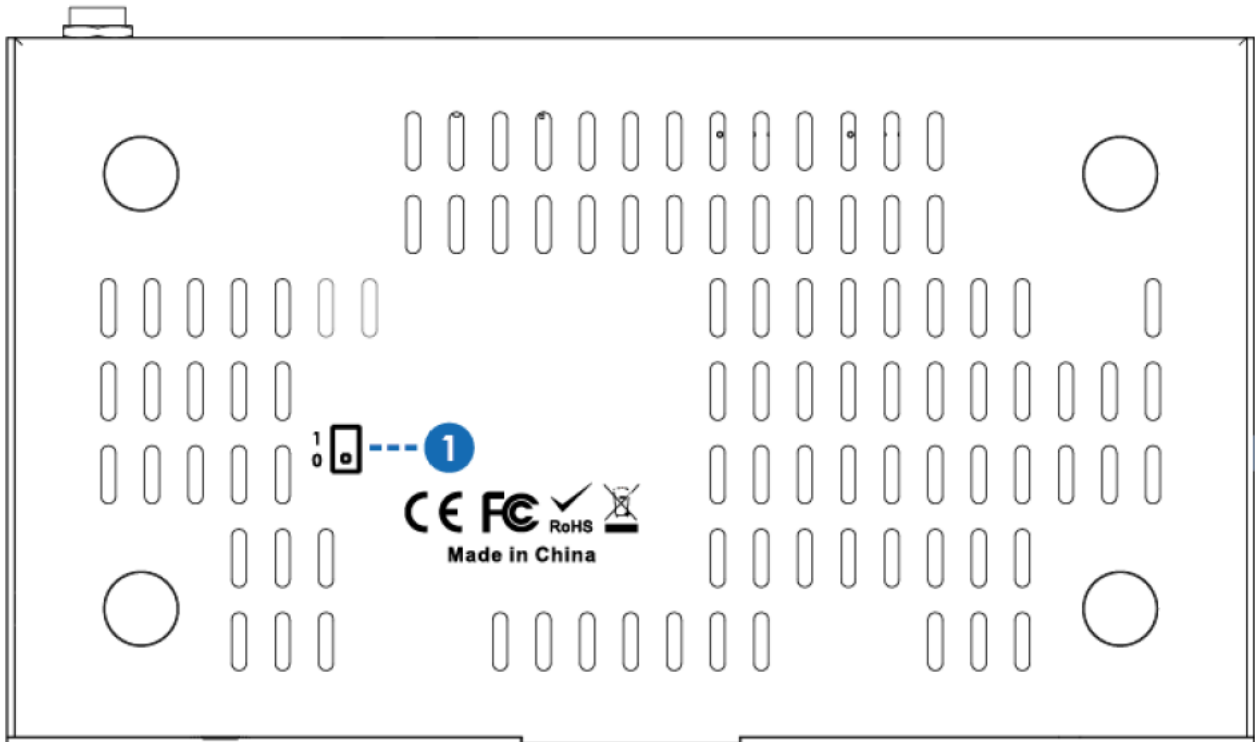
## 5. Operation Controls and Functions

### 5.1 Front panel and Rear panel



Number	Name	Function description
1	POWER LED	This indicator LED will illuminate when the unit is power on.
2	SERVICE	For firmware update.
3	DC 24V	Plug the 24V/1A adaptor to AC wall outlet for power supply.
4	HDBaseT IN	HDBaseT input port. Connect HDBaseT Transmitter with a UTP cable.
5	IR IN	Connect to IR Receiver cable.
6	IR OUT	Connect to IR Blaster cable.
7	HDMI OUT	Connect to a HDMI display device such as TV or projector.
8	USB port	Connect to USB device such as USB mouse or keyboard.
9	RS-232	Use the phoenix jack for connect PC or control system to transmit RS-232 commands.

## 5.2 Bottom Panel



Number	Name	Function description
1	Dial switch	When the switch is dialed to number “1” , the SERVICE port will update internal MCU firmware. The switch is dialed to number “0” , the SERVICE port will update HDBaseT firmware.

## 6. Application Example

