SD-WP31D-UK
4K HDBaseT Wall-plate (86x86)

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VER 1.0

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, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect andextend the life of your equipment.

Table of Contents

1. Introduction

The 4K HDBaseT Wall-plate supports one HDMI input, one DP input and one VGA with audio input within a standard medium 86mm×86mm wall box. The HDBaseT port over a single Cat6/6a cable extends distance up to 229.6ft / 70m with 1080p60Hz and up to 131.2ft / 40m with 4K30 YCbCr 4:4:4 .The resolution up to 4K2K@30Hz YCbCr 4:4:4 for HDMI / DP ports and up to 1920x1200@60Hz for VGA port. The product supports manual and automatic switch mode and supports 24V POC function. Built-in two-way RS-232.

2. Features

☆ HDMI 1.4, HDCP 1.4 and DP 1.2 compliant
☆ Support resolution up to 4K2K@30Hz YCbCr 4:4:4 for HDMI / DP ports
☆ Support resolution up to 1920x1200@60Hz for VGA port
☆ Support transmission distance up to 229.6ft / 70m with 1080p60Hz and up to 131.2ft / 40m with 4K30Hz YCbCr 4:4:4 over a single Cat6/6a cable.
☆ Support manual and automatic switch
☆ Support two-way RS-232
☆ Medium 86mm×86mm wall box
☆ Support 24V POC function

3. Package Contents

① 1× 4K HDBaseT Wall-plate Transmitter
② 1× Phoenix Connector (3pin-3.81mm)
③ 1 × 24V/1A Multi-country Power Supply（with 2pin-3.81mm Phoenix Connector)
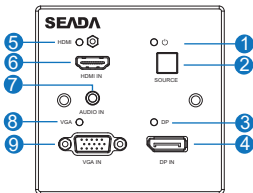④ 2 × Machine Screws (M3.5*12)
⑤ 1× User Manual

4. Specifications

Technical	
HDMI Compliance	HDMI 1.4
HDCP Compliance	HDCP 1.4
HDMI / DP Video Bandwidth	10.2Gbps
HDMI / DP Video Resolution	Up to 4K2K@30Hz YCbCr 4:4:4
VGA Video Resolution	Up to 1920x1200@60Hz
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2
Color Depth	8-bit (4K2K@30Hz)
HDMI/DP Audio formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX,DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
VGA Audio formats	LPCM2.0 /48KHz
ESD Protection	Human body model: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

Connections	
Transmitter	Inputs: 1x HDMI Type A [19-pin female] 1x VGA [15-pin female] 1x DP [Full size female] 1×AUDIO IN [3.5mm Stereo Mini-jack] Outputs:1x HDBaseT Out [RJ45] Control: 1x RS-232 [Phoenix jack]

Mechanical	
Housing	Aluminium Enclosure — Front Panel Metal Enclosure — Rear Panel
Color	White — Front Panel Black — Rear Panel
Dimensions	86mm[W] x 86mm[D] x 41mm[H]
Weight	205g

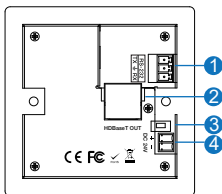|	
Power Supply	DC 24V/1A or POC
Power Consumption	5W (Max)
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

5. Operation Controls and Functions

5.1 Front panel

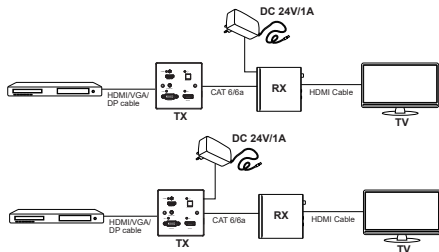| Number	Name	Function Description
1	Power LED	Signal status indicator. The LED will illuminate in green when the HDMI port or the VGA port or the DP port has active signal input.
2	SOURCE button	Use this manual switch to choose input signal source.
3	DP LED	The LED will illuminate in green when the DP port is selected and has active signal input simultaneously.
4	DP IN	DP input port. Connect to DP input signal source with an DP cable.

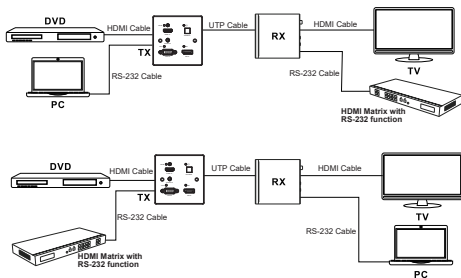| Number	Name	Function Description
5	HDMI LED	The LED will illuminate in green when the HDMI port is selected and has active signal input.
6	HDMI IN	HDMI input port. Connect to HDMI input signal source with an HDMI cable.
7	AUDIO IN	The VGA audio input port.
8	VGA LED	The LED will illuminate in green when the VGA port is selected and has active signal input simultaneously.
9	VGA IN	VGA input port. Connect to VGA input source with an VGA cable.

5.2 Rear panel

Number	Name	Function Description
1	RS-232	Use the phoenix jack for connect with PC or control system to transmit RS-232 commands.
2	HDBaseT OUT	HDBaseT output port. Connect to HDBaseT receiver with a UTP cable.
3	POC switch	Use the switch to turn on/off POC function.
4	DV 24V	DV 24V power input port.

※ Description 1
POC (Power over Cable) Application Example

※ Description 3
Bidirectional RS-232 control Application Example

6. Application Example

DVD or Blu-ray Player

Notebook

HDMI

AUDIO IN

VGA

DP

Transmitter

HDMI IN

HDBaseT Out

CE FC

Notebook

Apple

Power Supply

DC 24V

HDBaseT In

HDMI Out

IR In

IR Out

TX RX

Receiver

TV or Monitor

HDMI Matrix with RS-232 function