DIGITUS®

4K HDBaseT™ HDMI® Extender Set, 70 m

Quick Installation Guide
DS-55520

1. Introduction

The HDBaseT™ HDMI Extender Set extends Full HD AV signals over a distance of up to 70 m, 4K/30Hz signals can be extended over a distance of up to 40 m using a CAT6 (or higher) network cable. Thanks to PoC (Power over Cable), only one unit needs to be supplied with power by an external power adapter. Bi-directional IR transmission and RS232 signal transmission are also included as features.

2. Features

- Supports HDBaseT™ 1.0 via CAT6/7/8 cable up to 70 m
- Supports 4K2K/30Hz (24 bit)
- Maximum transmission distance (UHD 4K/30Hz, CAT6 or higher): 40 m
- Maximum transmission distance (Full HD, 1080p, CAT6 or higher): 70 m
- PoC (Power over Cable) – Only the unit requires an external power adapter
- Bi-directional IR signal transmission
- Bi-directional RS232 signal transmission
- HDCP 2.2 / 1.4
- Video bandwidth: 10.2 Gbps

3. Package Contents

- 1x Transmitter unit
- 1x Receiver unit
- 1x IR transmission cable (1.5 m)
- 1x IR receiver cable (1.5 m)
- 1x Power adapter (DC 24V/2A, 1.15 m)
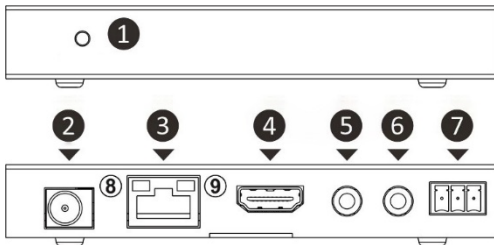- 1x Mounting material
- 1x User manual

4. Specifications

Transmitter unit connections:	• 1x HDMI input (4K/30Hz) – Connection signal source • 1x RJ45 (HDBaseT™) output – Connection CAT transmission cable • 1x IR input to receive remote control signals • 1x IR output for control of the source device • 1x RS232 (3-pin Phoenix) for RS232 command transmission • 1x Power adapter input (DC 24V/1A), screw connector – Connection for external power adapter
Receiver unit connections:	• 1x HDMI output (4K/30Hz) – Connection output device • 1x RJ45 input (HDBaseT™) – Connection CAT transmission cable • 1x IR input to receive remote control signals • 1x IR output for control of the source device • 1x RS232 (3-pin Phoenix) for RS232 command transmission • 1x Power adapter input (DC 24V/1A), screw connector – Connection for external power adapter
ESD Protection	Human Body Model: ± 8kV (air-gap discharge) ± 4kV (contact discharge)

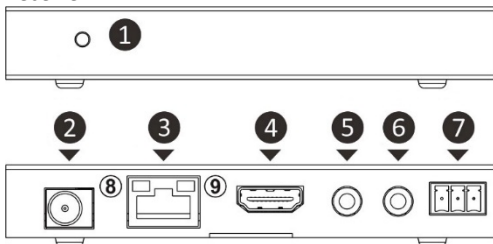| Dimensions (mm)	65(W) X 115 (D) X 17 (H)
Weight	200g
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Power Consumption	20W (Max)
Color	Black
Housing	Metal
Supports	Suitable for wall mounting

5. Operation controls and Functions

Transmitter

1	POWER	This LED illuminates when the device is connected with power supply.
2	DC 24V	Plug the 24V DC power supply into the unit.
3	HD BaseT OUT	Standard HD BaseT signal output port. Connect HD BaseT receiver with a UTP cable following the standard of direct

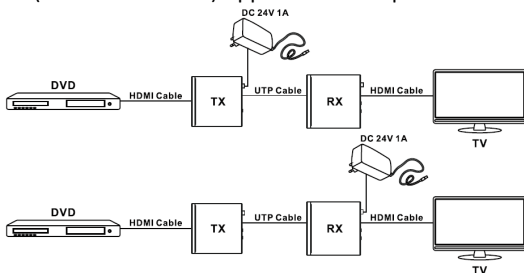|		interconnection method.
4	HDMI IN	HDMI input port. This slot is where you connect the HDMI source.
5	IR IN	Channel 2 IR Receiver. Connect with Wideband IR Rx.
6	IR OUT	Channel 1 IR Transmitter. Connect with Wideband IR Tx.
7	RS232	Phoenix jack provide Serial port control signal from receiver or to receiver.
8	Connection Signal Indicator Lamp	• Illuminate: The Transmitter and Receiver are in good connections status. • Flashing: The Transmitter and Receiver are in poor connections status. • Dark: The Transmitter and Receiver are not connected.
9	Data Signal Indicator Lamp	• Illuminate: The HDMI signal with HDCP. • Flashing: The HDMI signal without HDCP. • Dark: No HDMI signal.

Receiver

1	POWER	This LED illuminates when the device is connected with power supply
2	DC 24V	Plug the 24V DC power supply into the unit.
3	HD BaseT IN	Standard HD BaseT signal input port. Connect HD BaseT transmitter with a UTP cable following the standard of direct interconnection method.
4	HDMI OUT	HDMI output port. This slot is where you connect the HDTV or monitor with HDMI cable.
5	IR IN	Channel 1 IR Receiver. Connect with Wideband IR Rx.
6	IR OUT	Channel 2 IR Transmitter. Connect with Wideband IR Tx.
7	RS232	Phoenix jack provide Serial port control signal from receiver or to receiver.
8	Connection Signal Indicator	• Illuminate: The Transmitter and Receiver are in good connections status.

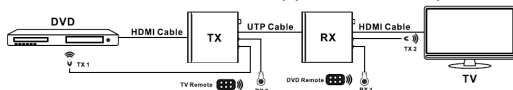|	Lamp	• Flashing: The Transmitter and Receiver are in poor connections status. • Dark: The Transmitter and Receiver are not connected.
9	Data Signal Indicator Lamp	• Illuminate: The HDMI signal with HDCP. • Flashing: The HDMI signal without HDCP. • Dark: No HDMI signal.

1. Description 1
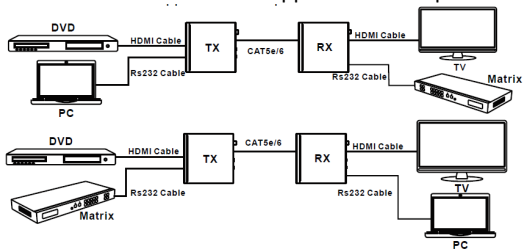
   POC (Power over Cable) Application Example

2. Description 2

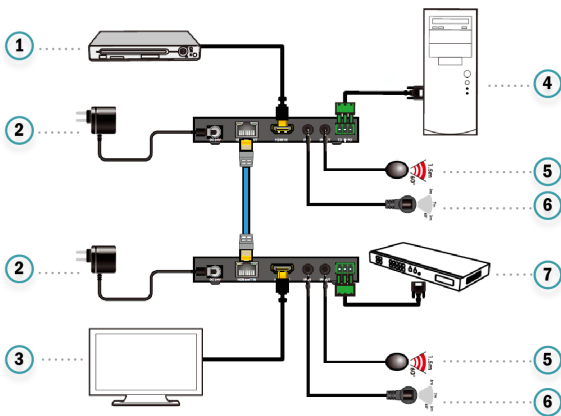   Bidirectional Infrared control Application Example

3. Description 3
Bidirectional RS232 control Application Example

6. **Application Example**

1	DVD or Blu-ray Player	5	IR RX
2	Power Supply	6	IR TX

3	TV	7	RS-232 Equipped HDMI Matrix
4	RS-232 Equipped PC or Notebook		

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