HDBaseT™ Ultra Slim Extender Kit

HDR, 4K@60Hz 4:4:4, up to 40M

OPERATION MANUAL

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.

SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.

Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

CONTENTS

1. INTRODUCTION

This Model allows HDMI signals to be transmitted over a Single CAT5e/6 cable. This solution has the added features of RS232 and 2-way IR control functionality over the same CAT5e/6 cable. It can extend 4K@60Hz HDR 10 over a HDBaseT link and upto 40M ! The slimmest HDBaseT design, making it perfect to mount behind ultra thin TVs.

2. APPLICATIONS

- Household entertainment sharing and control
- Lecture room display and control
- Showroom display and control
- Meeting room presentation and control
- Classroom display and control

3. PACKAGE CONTENTS

① Main unit
② Operating instructions
③ 24V1A DC power supply
④ 1xIR TX unit
⑤ 1xIR RX unit
⑥ 2 Phoenix plugs for RS232 cable termination

4. SYSTEM REQUIREMENTS

Input HDMI source equipment such as DVD/Blu-ray player and HDMI equipped output display (TV or monitor).

5. Features

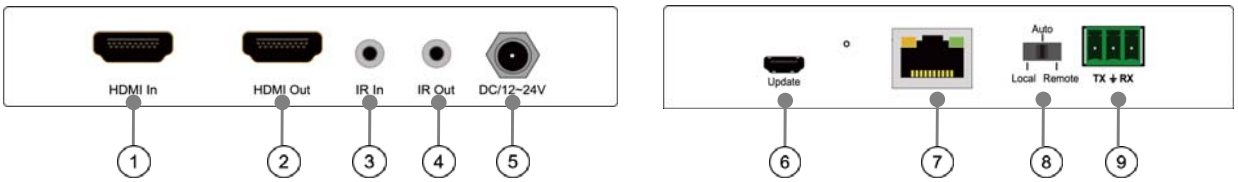
- Bandwidth up to 18Gbps, resolution up to 4k @60hz YUV 4:4:4
- Transmit up to 70m under 1080p, 40m under 4k
- Support HDR10, 3D
- With 1x looping HDMI out at Transmitter and 2 x HDMI out at Receiver
- Bi-directional wide band IR and RS233 Pass through
- Dual POC (Receiver powered by transmitter or transmitter powered by Receiver)
- HDCP2.2/ HDCP1.4 Compliant

6. Specifications

Operating Temperature Range	-10 to +55°C (14 to +131 °F)
Operating Humidity Range	5 to 90 % RH (no condensation)
Input Video Signal	0.5-1.0 volts p-p
Input DDC Signal	5 volts p-p (TTL)
Video Format Supported	DTV/HDTV; 4K/1080P/1080i/720P/576P/480P/576i/480i
Output Video	HDMI 2.0+HDCP1.4/2.2
Output Audio	Support DTS-HD, Dolby-HD
Maximum Transmission Distance	70 meters for 1080P, 40 meters for 4K
Power Supply	24V1A
Poc	Power from TX to RX over Cat5/6 cable
Power Consumption	2.5Watts 5Watts
Dimensions	139.4mmH×66.8mmW×20mmD
Mass (Main unit)	0.7Kg / 1.54lb (Pairs)

7. OPERATION CONTROLS AND FUNCTIONS

7.1 Transmitter Front and Rear



① HDMI In: Connect to HDMI source equipment such as DVD or Blu-ray player

② HDMI Out: Connect to a HDMI equipped TV/Monitor for display of the HDMI input source signal

③ IR In: Connect to the supplied IR blaster cable for IR signal transmission. Place the IR blaster in direct line-of-sight of the equipment to be controlled.

④ IR Out: Connect to the supplied IR blaster cable for IR signal transmission. Place the IR blaster in direct line of sight of the equipment to be controlled

⑤ DC/12-24V: Plug the 12V DC power supply into the unit and connect the adaptor to an AC outlet

⑥ Update: USB port to update the firmware

⑦ CAT5e/6 Out: Connect to the receiver unit with a single CAT5e/6 cable for transmission of all data signals

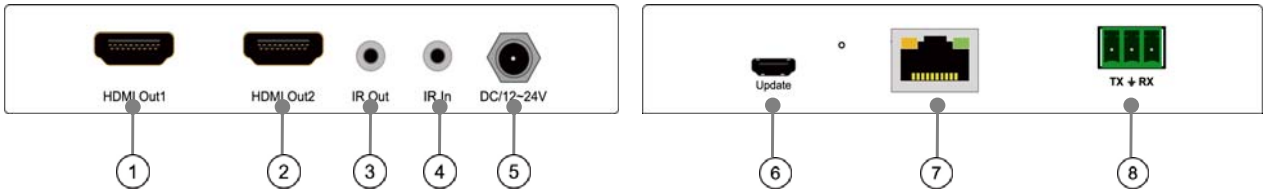
⑧ EDID: Auto: default 4K@60Hz

Local: copy EDID from display of transmitter

Remote: copy EDID from display of receiver

⑨ RS232 in: Connect to a PC or laptop with phoenix terminal for the transmission of RS232 commands

7.2 Receiver Front and Rear Panels



① HDMI Out1: Connect to a HDMI equipped TV/Monitor for display of the HDMI input source signal

② HDMI out2:Connect to a HDMI equipped TV/Monitor for display of the HDMI input source signal

③ IR Out: Connect to the supplied IR blaster cable for IR signal transmission. Place the IR blaster in direct line of sight of the equipment to be controlled

④ IR In: Connect to the supplied IR blaster cable for IR signal transmission. Place the IR blaster in direct line-of-sight of the equipment to be controlled.

⑤ DC/12-24V: Plug the 12V DC power supply into the unit and connect the adaptor to an AC outlet

⑥ Update: USB port to update the firmware

⑦ CAT5e/6 In : Connect to the transmitter unit with a single CAT5e/6 cable for transmission of all data signals

⑧ RS232 Out: Connect to the device that is to be controlled via phoenix terminal by RS-232 commands

8. CONNECTION DIAGRAM