Pro.2

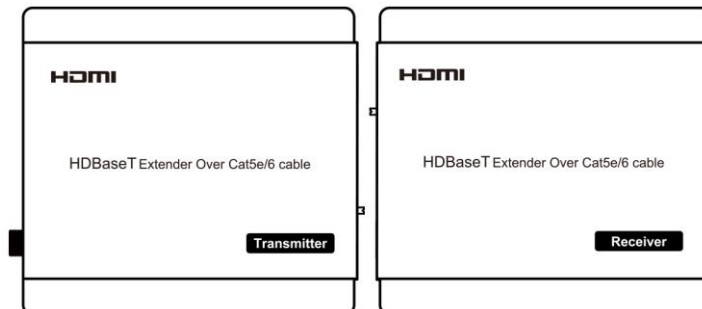## 70M HDBaseT Extender Over Single Cat5e/6 cable

1080P up to 70M

4k @30Hz up to 40m

Model: HDBT70ECO

//// **OPERATION MANUAL**

Dear customer

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.

Features

- One pair as a full functional module, no need for setting.
- Use single UTP/STP LAN cable (CAT-5E/6) to substitute HDMI cable to achieve long distance transmission.
- UTP/STP cable termination follows the standard of IEEE-568B.
- Transmission distance reaches up to 70 meters under the video format of 1080P and 4K up to 40 meters.
- POC (RX powered by TX)
- HDCP2.2/1.4 compliant.
- Full HD support: 1080p@60Hz@48b/pixels, 3D and 4Kx2K
- With LED indicators to show the power status.
- With ESD protection inside.
- Mounting ears supplied.
- Transfer Bidirectional Infrared control signal together with HDMI signal.
- Phoenix RS232 Port for firmware update or RS232 control signal transmission.

Package Contents

① Main unit .

② Operating instructions.

③ 12VDC power supply.(only for TX, RX can be powered from TX)

④ 2xIR TX unit. (IR emitter cable, 1 pcs for TX, 1 pcs for RX)

⑤ 2xIR RX unit. (IR receiver cable, 1 pcs for TX, 1pcs or for RX)

⑥ 2 Phoenix plugs for RS232 cable termination

NOTE: PART NUMBER (Abbreviation as P/N)

Connections and Operations

1) Connect the HDMI input source (such as HD-DVD, PS3, STB etc.) to TX.
2) Connect a CAT-5E/6E cable from UTP output of TX to UTP input of RX.
3) Connect the HDMI sink(such as HD-LCD、HD-DLP) to RX.
4) Connect the IR TX UNIT into IR-Out port of the Transmitter; Connect the IR RX UNIT into IR-In port of the Receiver.
5) Connect the IR RX UNIT into IR-In port of the Transmitter; Connect the IR TX UNIT into IR-Out port of the Receiver.
6) Phoenix RS232 Port can be set for firmware update or RS232 control signal transmission (Default set for RS232).

Attention: Please insert and extract cables gently.

Typical Application
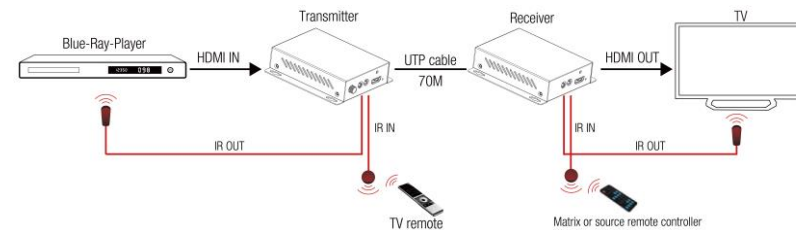
Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner of benzine to clean this unit.

2. RX (Receiver)
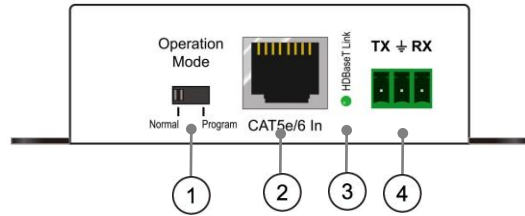
① The switch is for bypassing RS232 signal or for firmware updating.
② Cat5e/6 In.
③ HDBaseT Link indicator.
④ RS232 Input.

Right Panel

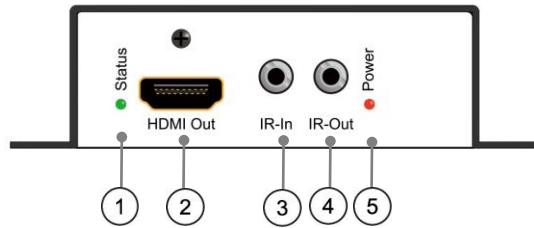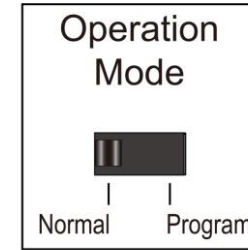① Indicator of HDMI Output.
② HDMI output port.
③ Connect IR RX cable to IR-In port.
④ Connect IR TX cable to IR-Out port.
⑤ Indicator of power Input.

Setting instruction

1. The switch is for bypassing RS232 signal or for firmware updating.

2. According to the silk prints nearby ("Program" for firmware update, "Normal" for RS232 transmission), change the switcher positions to set RS232 port's function.

Update instruction

① The user should receive a Firmware burn package, containing all software needed for burning and updating the Firmware on the EEPROM.

② Connect an RS232 cable from RS232 port of unit to PC.

③ Power the unit.

④ Extract the zipped file from the burn package to a directory (e.g. C:\dir_name).

⑤ Browse to the directory (e.g. C:\dir_name\) and double click the batch file Update Source. bat (for TX) or Update Sink. bat (for RX).

⑥ A short description of the link created between the PC and the board appears on the screen, followed by the burn progress percentage report.

⑦ A second stage of verifying the content of the EEPROM follows, also with a progress percentage report.

For RS232 control signal transmission, just connect two RS232 cables to both RS232 ports of TX and RX, they work like an RS232 extension cable.

Specifications

Operating Temperature Range	-5 to +35°C (-41 to +95 °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	12V2A
Poc	Power from TX to RX over Cat5/6 cable
Power Consumption	2.5Watts (TX) 5Watts (RX)
Dimensions	105mmH×71mmW×25mmD
Mass (Main unit)	0.7Kg / 1.54lb (Pairs)

NOTE: Specifications are subject to change without notice. Mass and dimensions are approximate.
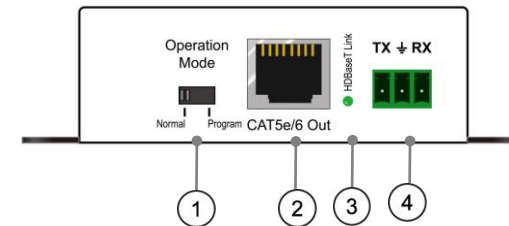
Panel Descriptions

1. TX (Transmitter)

Left Panel
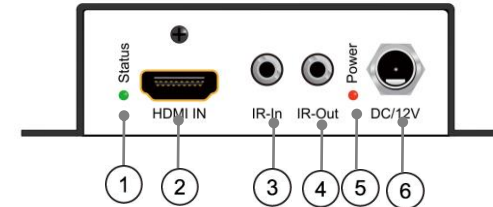
① Indicator of HDMI Input.
② HDMI input port.
③ Connect IR RX cable to IR-In port.
④ Connect IR TX cable to IR-Out port.
⑤ Indicator of power Input.
⑥ DC power input.

Right Panel

① The switch is for bypassing RS232 signal or for firmware updating.
② Cat5e/6 Out.
③ HDBaseT Link indicator.
④ RS232 Output.