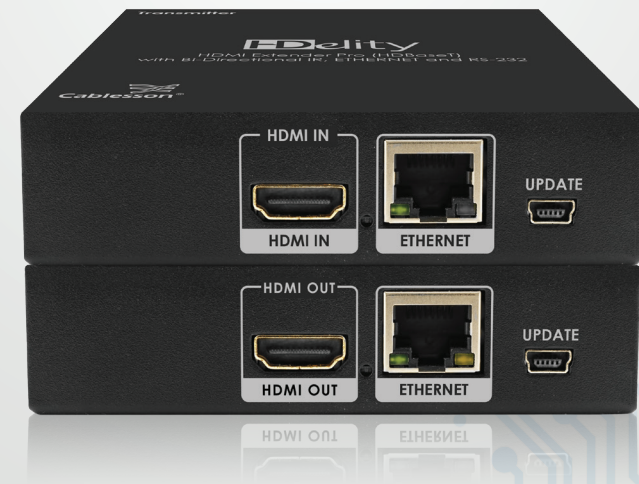


Cablesson HDeIity HDMI Extender Pro (HDBaseT) with Bi-Directional IR, ETHERNET and RS-232

User Manual





Thank you for purchasing our product, we hope you will find it to your complete satisfaction. We at Cablesson take pride in every product we design and create, and will ensure you receive the very best care for your merchandise.

The Cablesson brand's greatest claim to fame is our consistent ability to deliver premium quality products on par with the best known international brands with unmatched speed and service. Cablesson is a specialist technology distributor, supplying advanced High Definition connectivity and distribution solutions exclusively to the custom installer-integrator market and the end Consumers. All our products are produced in ISO9001 and ISO14001 facilities and maintain the highest standards for production and work environment. The Cablesson products we sell are all RoHS compliant, reducing their environmental impact.

If, for any reason, you find that this product does not meet your requirements, please do get in touch with us and we will be glad to be of assistance. Our dedicated customer support officers are available via email at support@cablesson.com, or through our website: <http://www.cablesson.com>

**“We hope you enjoy your purchase and
thank you for your custom”.**

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For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

“We believe in creating thoughtful products for you”

Introduction

The Cablesson HDeIity HDMI Extender Pro (HDBaseT) with Bi-Directional IR, ETHERNET and RS-232 is a tool for extending your HDMI signal over 328fts/100meters to a compatible display. It is designed to convert HDMI signal to standard HDBaseT signal and transmit by Ethernet cable. It also supports Transfer Bi-Directional Infrared Control Signal \ RS 232 Control Signal \ Ethernet Signal together with the HDMI Signal, so you can control the Source in the Sink side which is 328fts(100 Meters) outside, also you can control the Sink in the Source side which is 328fts (100 Meters) outside using the HDMI Extender.

“A product that will exceed your expectations”

Features

- POE (Power Over Ethernet) function supported, either TX or RX powered 12V@2.5A, while the other one doesn't need power from the DC jack. POE Power Consumption less than 10W. See scheme 1
- Use single UTP LAN cable (CAT-5E/6) to substitute HDMI cable to achieve long distances transmission.
- UTP cable termination follows the standard of IEEE-568B.
- Transmission distance:
100 meters: 1080P @60Hz36bit; 3D 1080P @30Hz36bit;
70 meters: 1080P @60Hz@48bit; 1080P @120Hz@24bit;
3D 1080p@120Hz@36bit 4K x 2K @60Hz @24bit.
- HDMI v2.0a HDCP 2.2 supported.
- Full HD support: 1080p @60Hz@48 bit/pixels, 1080p @120Hz@24 bit/pixels, 3D 1080P 60Hz and 4K x 2K @60Hz@24bit.
- Transfer Bidirectional Infrared control signal together with the HDMI signal. See scheme 2.
- Transfer Bidirectional RS232 control signal together with the HDMI signal. See scheme 3.
- Transfer Bidirectional Ethernet signal together with the HDMI signal. See scheme 4.

Package Contents

- | | | |
|----|---------------------------------------|------|
| 1. | HDMI Extender Transmitter ----- | 1PCS |
| 2. | HDMI Extender Receiver ----- | 1PCS |
| 3. | Wideband IR Tx ----- | 2PCS |
| 4. | Wideband IR Rx ----- | 2PCS |
| 5. | 12V2.5A DC Power Supply adapter ----- | 1PCS |
| 6. | Operation Manual ----- | 1PCS |
| 7. | Phoenix male jack----- | 2PCS |
| 8. | Mounting ears----- | 2PCS |

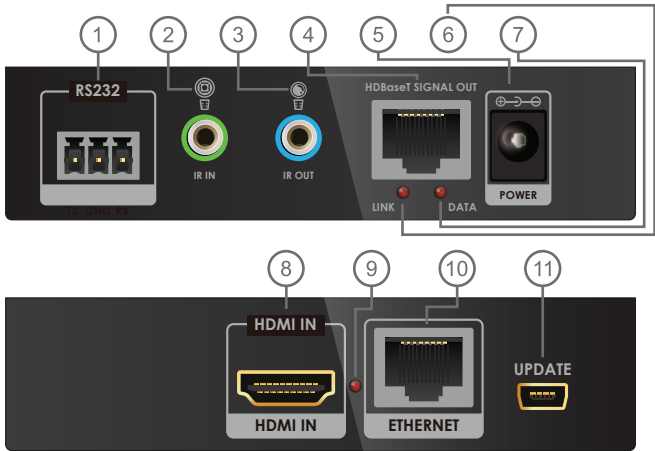
Specifications

Cableson HDeIity HDMI Extender Pro (HDBaseT) with Bi-Directional IR, ETHERNET and RS-232

Frequency Bandwidth	2.97Gbps
Transmitter Input/Output Ports	1x HDMI Female port/2xCAT6 1x IR Tx/1x IR Rx/1xPhoenix
Receiver Input/Output Ports	1xHDMI Female port/2xCAT6 1x IR Tx/1x IR Rx/1xPhoenix
Power Supply	DC 12V 2.5A
ESD Protection Human Body Model	± 8kV (air-gap discharge) ± 4kV (contact discharge)
Dimensions (mm)	100(W) X 100 (D) X 25 (H)
Weight	320g x 2
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (Non-condensing)
Power Consumption (Max)	20W

Operation controls and Functions

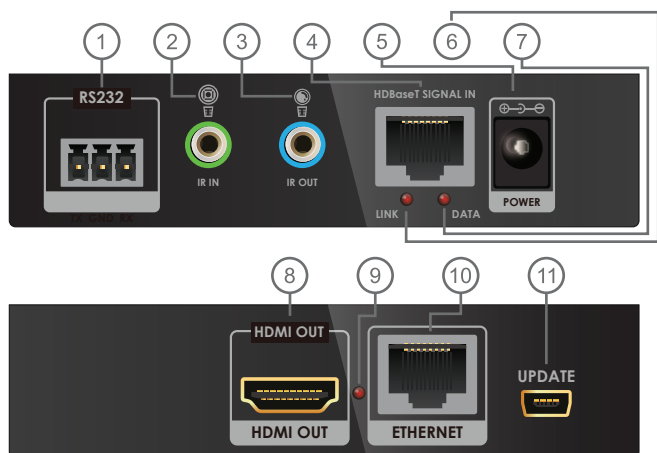
Transmitter :



1. RS232: Phoenix jack provides Serial port control signal from receiver or to receiver.
2. IR IN: Chanel 1 IR Receiver. Connect with Wideband IR Rx.
3. IR OUT: Chanel 2 IR Transmitter. Connect with Wideband IR Tx.
4. HDBaseT SIGNAL OUT: Standard HDBaseT signal output port. Connect HDBaseT receiver with a UTP cable follows the standard of IEEE-568B.

5. POWER: Plug the 12V DC power supply into the unit.
6. LINK LED: The connection status indicating lamp.
 - Illuminate: Connection established.
 - Flashing: The connection between the receiver and the transmitter is not stable.
 - Dark: Connection not established.
7. DATA LED: The data status indicating lamp.
 - Illuminate: The HDMI signal with HDCP.
 - Flashing: Indicates that the HDMI signal is not HDCP compliant.
 - Dark: No HDMI signal.
8. HDMI IN: HDMI input port. This slot is where you connect the HDMI source.
9. INPUT LED: The input status indicating lamp. This red LED illuminate when the HDMI signal plug in.
10. ETHERNET: This slot provides Ethernet signal from receiver or to receiver.
11. UPDATE: System software update.

Receiver :

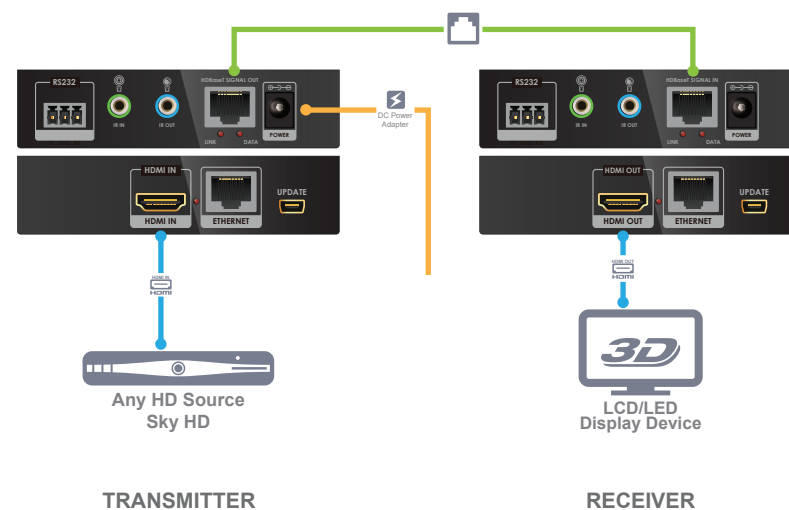


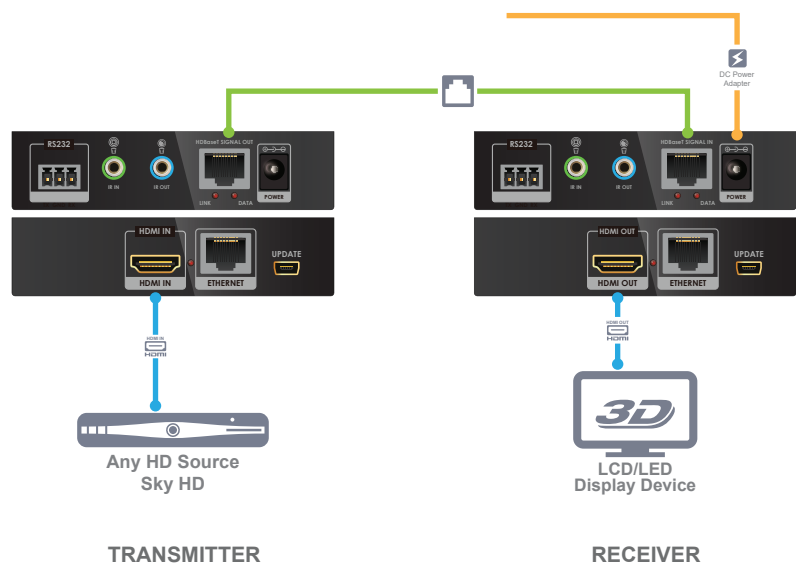
1. RS232: Phoenix jack provides Serial port control signal from transmitter or to transmitter.
2. IR IN: Chanel 2 IR Receiver. Connect with Wideband IR Rx.
3. IR OUT: Chanel 1 IR Transmitter. Connect with Wideband IR Tx.
4. HDBaseT SIGNAL IN: Standard HDBaseT signal input port. Connect HDBaseT transmitter with a UTP cable follows the standard of IEEE-568B.
5. POWER: Plug the 12V DC power supply into the unit.

6. LINK LED: The connection status indicating lamp.
 - Illuminate: Connection established.
 - Flashing: The connection between the receiver and the transmitter is not stable.
 - Dark: Connection not established.
7. DATA LED: The data status indicating lamp.
 - Illuminate: The HDMI signal with HDCP.
 - Flashing: Indicates that the HDMI signal is not HDCP compliant.
 - Dark: No HDMI signal.
8. HDMI OUT: HDMI output port. This slot is where you connect the HDTV or monitor with HDMI cable
9. OUTPUT LED: The output status indicating lamp. This red LED illuminates when the TV is plugged in with the HDMI cable.
10. ETHERNET: This slot provides Ethernet signal from transmitter or to transmitter.
11. UPDATE: System software update.

Scheme 1

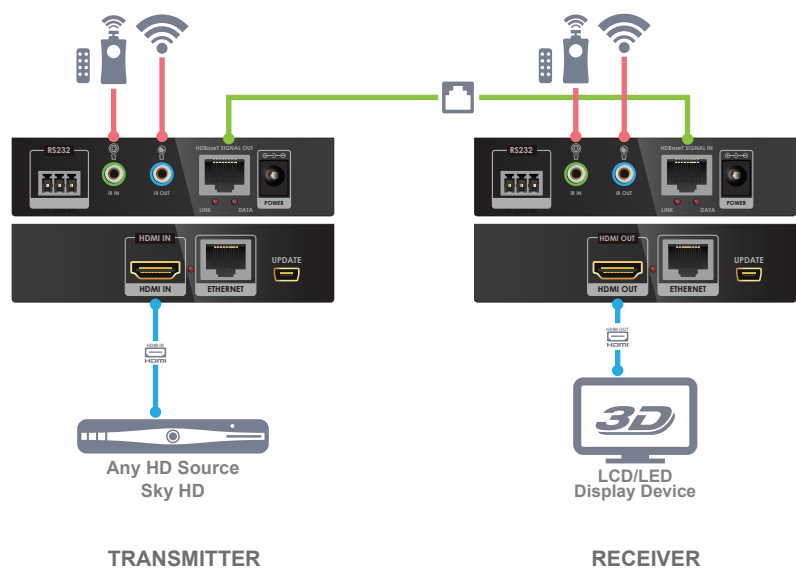
POE(Power Over Ethernet) Application Example





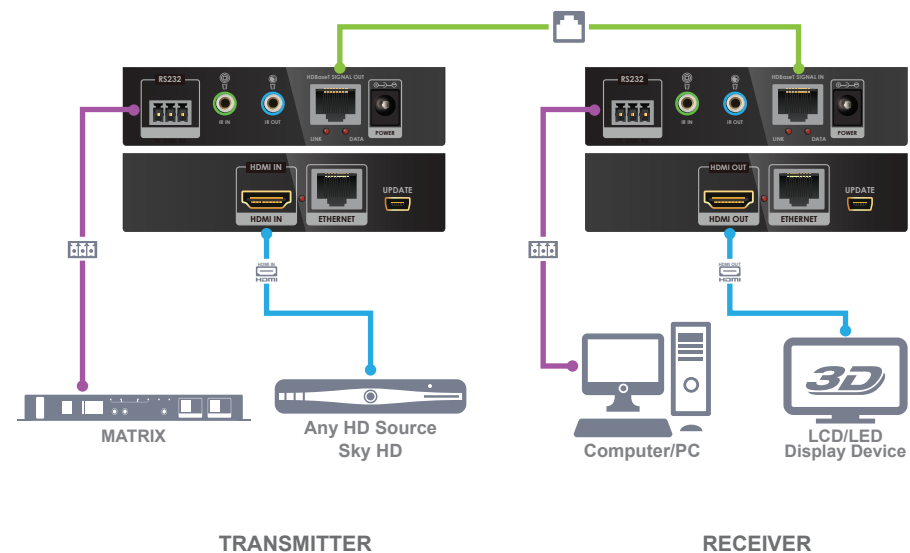
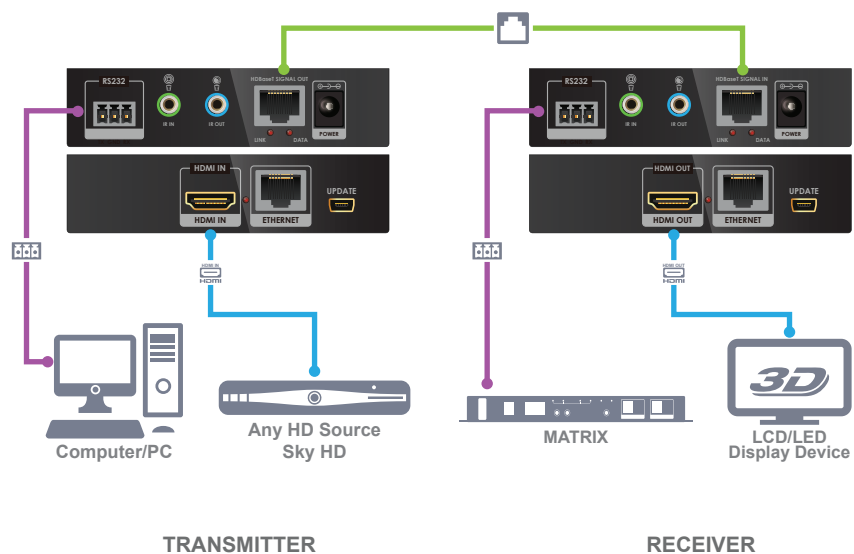
Scheme 2

Bidirectional Infrared control Application Example

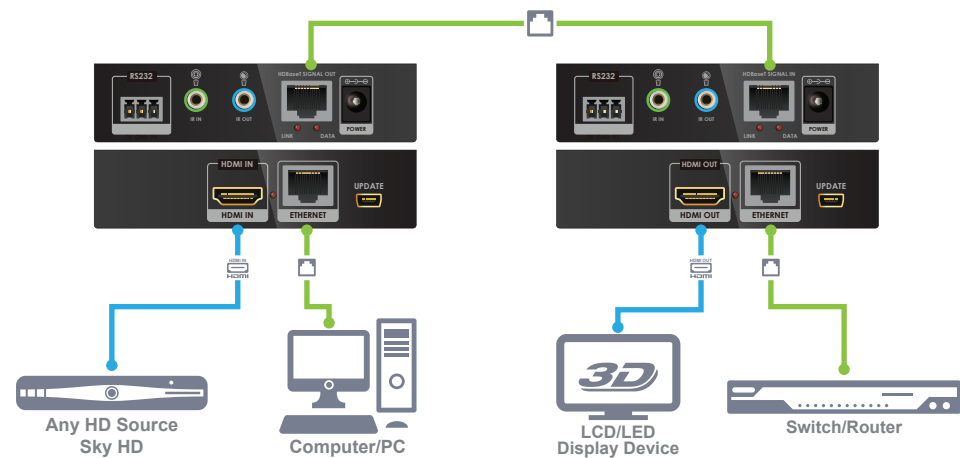


Scheme 3

Bidirectional RS232 control Application Example

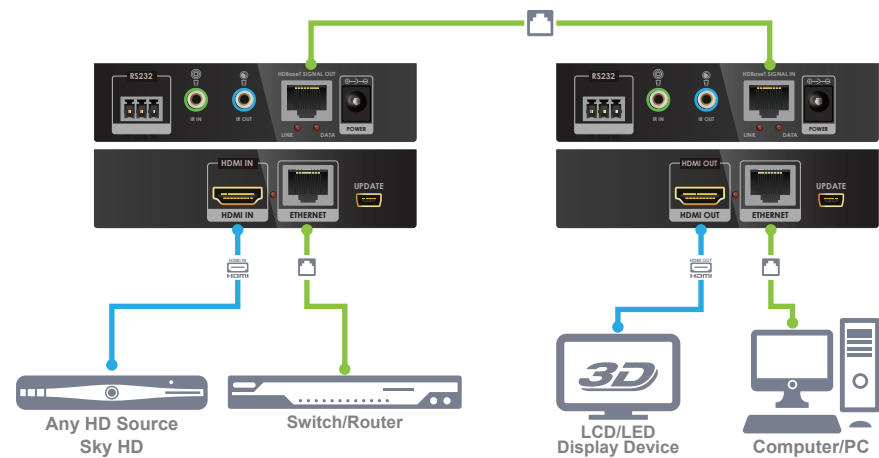


Bidirectional Ethernet signal Application Example



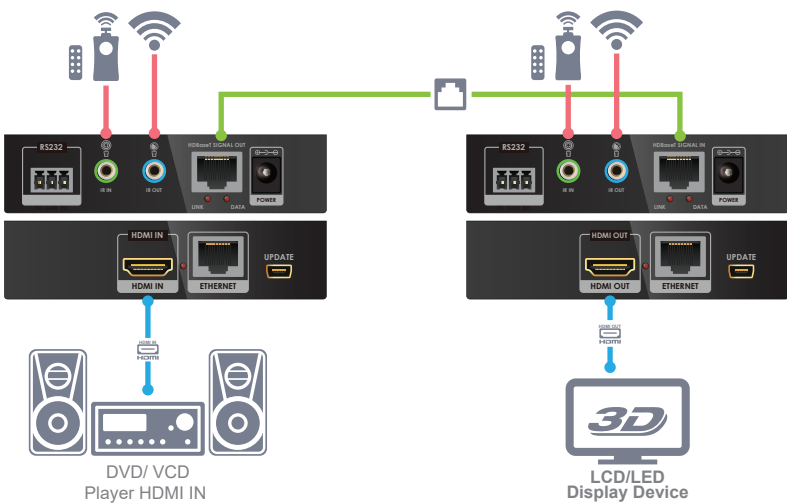
TRANSMITTER

RECEIVER



TRANSMITTER

RECEIVER



TRANSMITTER

RECEIVER

Safety Notice

The Cablesson HDMI 3D Extender Control Paths has been tested for conformity to safety regulation and requirements, and has been certified for international use. However, like all electronic equipment, the single HDMI 3D Extender should be used with care. Please read and follow the safety instruction to protect yourself from possible injury and to minimize the risk of damage to the unit

- Follow all instruction and warning marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation, air circulation, and do not use near water.
- Keep objects that might damage the device away and ensure that the placement of this unit is on a stable surface.
- Use only the power adapter, power cords, and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit, always unplug the power cable from the device before cleaning it.

Warranty

For UK customers: If your product does not work properly because of a defect in materials or workmanship, Cablesson (referred to as “the warrantor”) will, for the length of the period indicated as below, (One Year) which starts with the date of original purchase (“Limited Warranty period”), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

For customers within the EU but outside the UK, the length of the warranty period would be taken as Two Years, starting from the date of original purchase.

This Limited Warranty is extended only to the original purchaser and only covers product purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

This Limited Warranty only covers failures due to defects in materials or workmanship and does not cover normal wear as well as tear or cosmetic damage. The Limited Warranty also does not cover damages or failures which are caused by products not supplied by the warrantor or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, maladjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service Centre or other Authorised Service, or damage that is attributable to acts of God. No responsibility can be accepted for damage caused to connected devices as a result of the use of the system.

There are no express warranties except as listed under “limited warranty coverage”. The warrantor is not liable for incidental or consequential damages resulting from the use of this product, or arising out of any breach of this warranty. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the service location, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive, but are for illustration only.

Important Notice

Before utilising the product, the user should determine the suitability of the product for its intended use. Cablesson expressly disclaim the implied warranties and conditions of merchantability and fitness for a particular purpose. In no case shall Cablesson be liable under any legal theory, including but not limited to contract or strict liability, for any direct, special, incidental or consequential damages resulting from product use.