

User Manual

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Extend HD AV and Ethernet to 100m Over One Cat5e/6 Cable

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.

1.0 INTRODUCTION

The Extender is based on the HDBaseT technology. It extends your HD display with the resolutions of 1080p/60Hz up to 330 feet (100 meters) away from your HDMI or DVI-D source using one CAT5e/6 cable. It also extends Ethernet and provides an IR back channel to control AV sources using the same CAT5e/6 cable. The three Ethernet ports on both the Sender and Receiver are connected to standard network devices such as 100Base-T routers and hubs. Built-in IR extender function allows IR remote control of Source devices from remote viewing location by sending IR commands received in the vicinity of the Display back to the Source devices.

1.1 FEATURES

- | Support HDCP
- | Support uncompressed HDMI signal.
- | Enables HDMI10.2 Gbps and 100Mbps Ethernet in parallel over a single 100m Cat5e/6 cable.
- | Supports 340MHz/3.4Gbps per channel (10.2Gbps all channel) bandwidth.
- | Support 1080p@60Hz@48bit pixels
- | Support 3D pass-through.
- | Support CEC pass-through.
- | Supports uncompressed audio such as LPCM.
- | Supports compressed audio such as DTS Digital, Dolby Digital (including DTS-HD and Dolby True HD) .
- | There are 3 standard Ethernet ports with switching capabilities on each unit. There is no difference between the 3 and any type of connection topology is permitted.
- | Built-in IR extender function allows IR remote control of Source devices from remote viewing location by sending IR commands received in the vicinity of the Display back to the Source devices.
- | CAT5e/6 cable follows the standard of IEEE-568B.

2.0 SPECIFICATIONS

Signal Inputs/Output	
Input Video Signal	1.2 volts p-p
Output Video	HDMI
Video format supported	
DTV/HDTV	480i/576i/480p/576p/720p/1080i/1080P
Transmission distance	
Cat5e/6 cable	100m for1080p/60Hz
Operating Frequency	
Video Amplifier Bandwidth	3.4Gpbs/340MHz
Ethernet Data Transfer Rate	100MHz(Max)
Vertical Frequency Range	50/60Hz
Resolutions(HDTV)	
Interlaced(50&60Hz)	480i,576i,1080i
Progressive(50&60Hz)	480p,576p,720p,1080p
Mechanical	
Size (L-W-H)	102X100X25MM
Weight (Net)	291G
Warranty	
Limited Warranty	1 Year Parts and Labor
Power Requirement	
Power Supply	5V DC@2A
Power consumption (Max)	5W
Regulatory Approvals	
Converter Unit	FCC,CE,UL
Power Supply	UL,CE,FCC
Accessories	
AC Power Adapter	US standard, UK standard and so on
User Manual	English Version

3.0 PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make sure the following items are contained in the shipping carton:

- 1) Main unit NO. 1 Sender
- 2) Main unit NO. 2 Receiver
- 3) Two pieces of 5VDC Power Supply.
- 4) IR(Extender infrared receiver) X1
- 5) IE(Extender infrared emitter) X1
- 6) User's Manual

4.0 Panel Descriptions

Sender

Front



Back



① Power Indicator

The LED will turn on once the DC/5V provided.

② DC/5V

③ Link

When LED is "ON", it indicates HDBaseT link connection established between the Sender and the Receiver over the Cat5e/6 cable.

④ HDCP

When the LED is "ON", it indicates a video content with HDCP protection is being transferred.

When LED is “Blinking”, it indicates a video content without HDCP.

When LED is “OFF”, it indicates no video is connected.

⑤ IE

Connect Extender infrared emitter cable from this port to the HDMI Source to control the source from the viewing location.

⑥ HDBaseT

Connect the Sender to the Receiver using a Cat5e/6 cable.

⑦ HDMI In

Connect HDMI Source to this Port.

⑧ Ethernet Ports

Connect any of the three ports to network devices, such as network routers, hubs using Ethernet cables.

Receiver

Front



Back



① Power Indicator

The LED will turn on once the DC/5V provided.

② DC/5V

③ Link

When the LED is "ON", it indicates HDBaseT link connection established between the Sender and the Receiver over the Cat5e/6 cable.

④ HDCP

When the LED is "ON", it indicates a video content with HDCP protection is being transferred.

When the LED is "Blinking", it indicates a video content without HDCP.

When the LED is "OFF", it indicates no video is connected.

⑤ IR

Connect Extender infrared receiver cable from this port to receiver the IR command of the source

⑥ HDBaseT

Connect the Sender to the Receiver using a Cat5e/6 cable.

⑦ HDMI Out

Connect HDMI Sink to this Port.

⑧ Ethernet Ports

Connect any of the three ports to network devices, such as network routers, hubs using Ethernet cables.

5.0 Connection and Operation

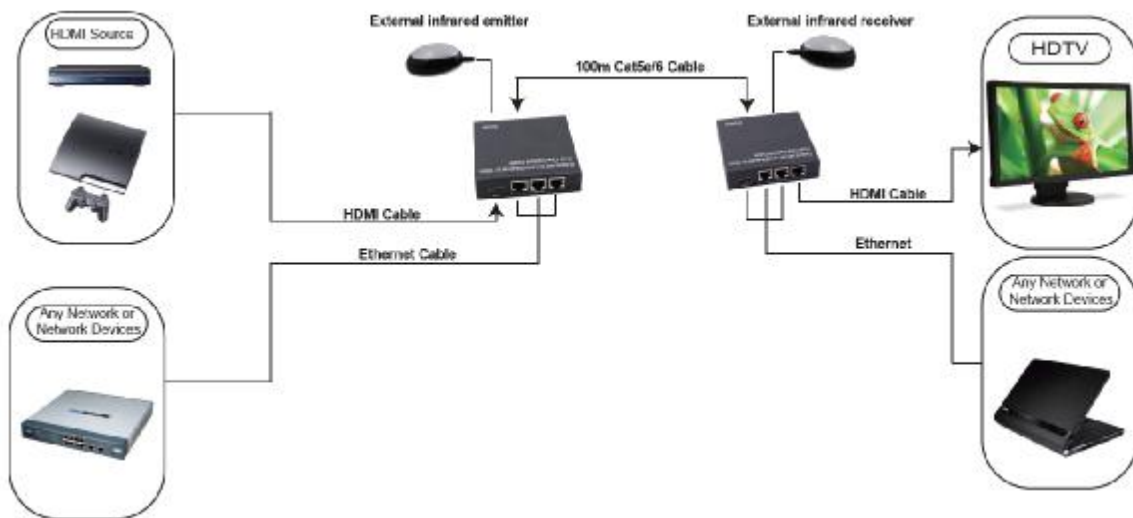
- 1) Connect the HDMI source (such as DVD, PS3, STB) to the input of Sender.
- 2) Connect the output of Receiver to HDTV display.
- 3) Connect the network device/router to any of the three Ethernet ports on the Sender unit using a Cat5e/6 cable.
- 4) Connect any of the three Ethernet ports on the Receiver to the remote

- device/router with a Cat5e/6 cable.
- 5) Use a Cat5e/6 cable up to 100m to connect the Sender and Receiver.
 - 6) Plug one power supply into the Sender and the other into the Receiver.
 - 7) Power on the HDTV display and HDMI source.

Note: It is recommended to use one continuous run Cat5e/6 cable from one end to the other. In some cases, connecting through a patch connector might not work.

Attention: Insert / Extract cable gently.

5.1 CONNECTION DIAGRAM



P/N:3014