HDMI VIDEO EXTENDER

User Manual
DS-55400

Table of Contents

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. 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.

It also provides POE function that you only need to provide a piece of 48V/1A DC power adapter at the end of the Sender to supply the power both the end of the Sender and Receiver.

1.1 FEATURES

- Support HDCP
- Support POE
- Support uncompressed HDMI signal.
- Enables HDMI 10.2Gbps over a single 100m Cat5e/6 cable.
- Support 340MHz/3.4Gbps per channel (10.2Gbps all channel) bandwidth.
- Support 1080p@60Hz@48bit pixels
- Support 3D pass-through.
- Support CEC pass-through.
- Support uncompressed audio such as LPCM.
- Support compressed audio such as DTS Digital, Dolby Digital（including DTS-HD and Dolby True HD）.
- 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

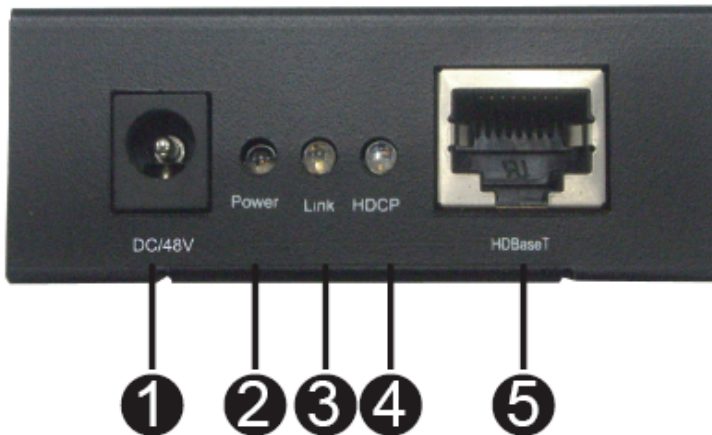| Signal Inputs/Output	
Input Video Signal	1.2 volts p-p
Output Video	HDMI
Video format supported	
DTV/HDTV	480i/576i/480p/576p/720p/1080i/1080P
Transmission distance	
Cat5e/6 cable	100m for1080p/60Hz
Operating Frequency	
Video Amplifier Bandwidth	3.4Gpbs/340MHz
Vertical Frequency Range	50/60Hz
Resolutions(HDTV)	
Interlaced(50&60Hz)	480i,576i,1080i
Progressive(50&60Hz)	480p,576p,720p,1080p
Mechanical	
Size (L-W-H)	100×65×25.5MM
Weight (Net)	170G（each unit）
Warranty	
Limited Warranty	1 Year Parts and Labor
Power Requirement	
Power Supply	48V DC@1A
Power consumption (Max)	16.8W
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) One piece of 48V DC 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) DC/48V
(2) Power Indicator
   The LED will turn on once the DC/48V provided.
(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 connected.

(5) HDBaseT

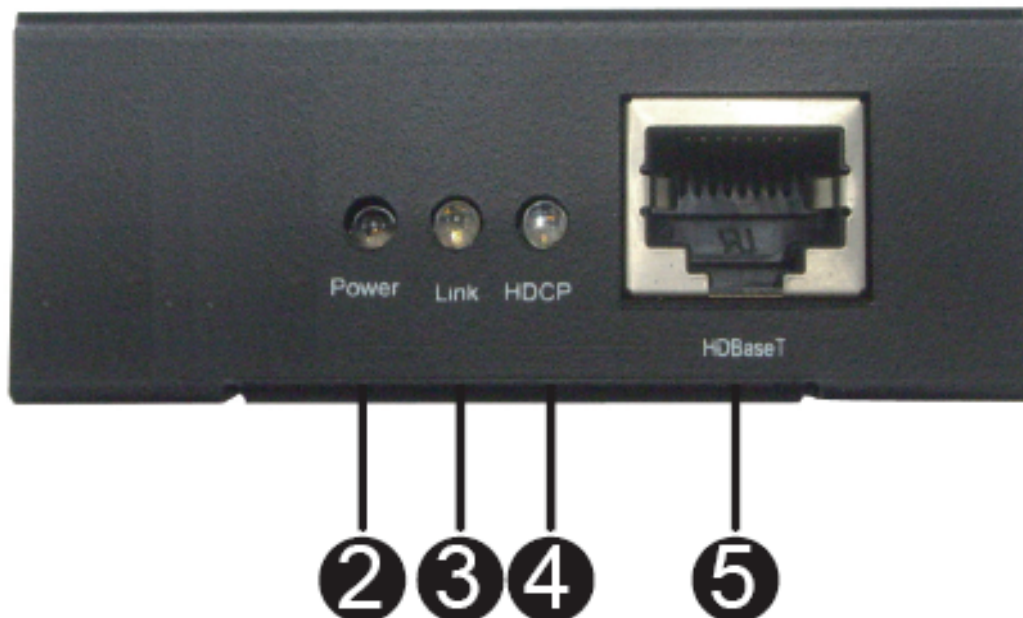Connect the Sender to the Receiver using a Cat5e/6 cable.

(6) IE

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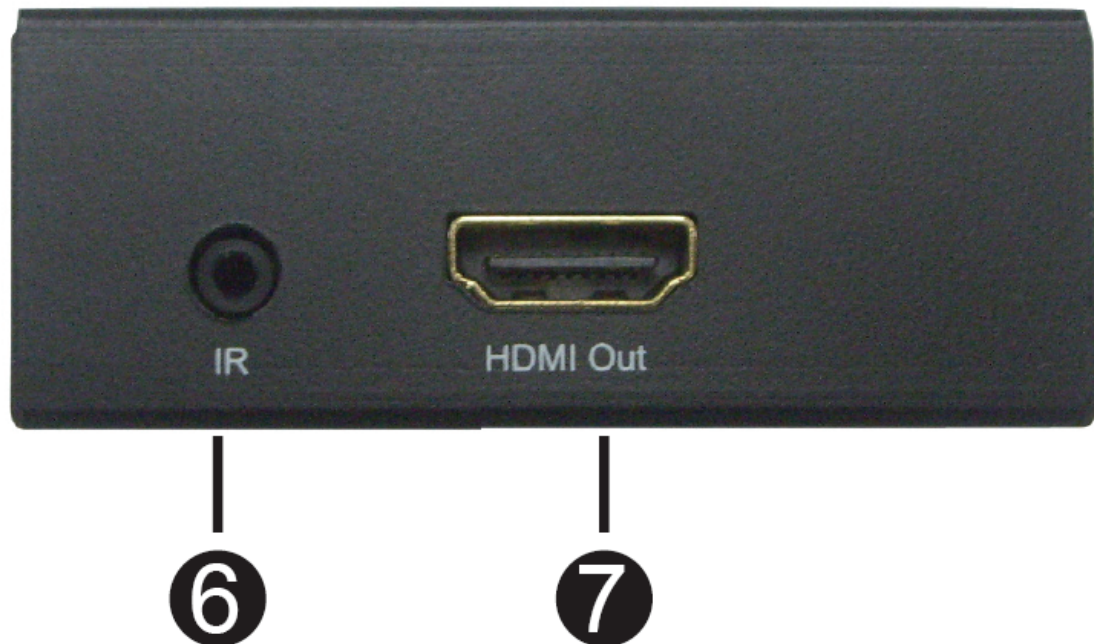
(7) HDMI In

Connect HDMI Source to this Port.

Receiver

Front

Power   Link   HDCP

HDBaseT

❷ ❸❹ ❺

Back

(2) Power Indicator
   The LED will turn on once the 48V Power adapter provided at the end of the Sender.
(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 connected.
(5) HDBaseT
   Connect the Sender to the Receiver using a Cat5e/6 cable.
(6) IR
   Connect Extender infrared receiver cable from this port to receiver the IR command of the source
(7) HDMI Out
   Connect HDMI Sink to this Port

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) Use a Cat5e/6 cable up to 100m to connect the Sender and Receiver.
4) Plug one piece of 48V/1A power supply into the Sender
5) 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