



EXP-HDBASET-100

HDMI Extender HDBaseT



GENERAL SAFETY INSTRUCTIONS

When using electronic products, please review the following safety precautions before installing or using the products.

- i. Read these instructions.
- ii. Keep these instructions.
- iii. Follow all instructions.
- iv. Heed all warnings.
- v. Be sure all cables and equipment are connected to the unit as described in the manual.
- vi. Do not use this product near water.
- vii. Do not place the product on top of any easily combustible materials such as carpet or fabric.
- viii. Do not stacking the product on top of a hot component such as a power amplifier.
- ix. Do not use liquid or aerosol cleaners to clean the product. Clean only with a dry cloth and always unplug the power to the device before cleaning.
- x. Do not block any ventilation openings. Blocking the airflow could cause damage. Arrange components so that air ca flow freely. Ensure that there is adequate ventilation if the product is placed in a stand or cabinet. Install or place the product in a properly ventilated area, away from direct sunlight or any source of heat such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- xi. Power cord must be accessible to allow for the removal of the power from the product.
- xii. Only use attachments/accessories specified by the manufacturer.
- xiii. To reduce the risk of electric shock and/or damage to this product, never handle or touch this unit or power cord if your hands are wet or damp.
- xiv. To avoid electric shock, never stick anything in the slots on the case or remove the cover.



Be careful with electricity:

- **Power outlet:** To prevent electric shock, be sure the electrical plug used on the product power cord matches the electrical outlet used to supply power to the HPC product. Use only the power adaptor and power connection cables designed for this unit.
- **Power Adaptor:** Be sure the power adaptor is 48V/0.5A, please matching the rating of the power voltage.
- **Lightning:** For protection from lightning or when the product is left unattended for a long period, disconnect it from the power source.
- **ESD:** Handle the product with proper ESD care. Failure to do so can result in failure.

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Table of Content

GENERAL SAFETY INSTRUCTIONS.....	2
INTRODUCTION.....	4
PACKAGE CONTENTS	4
SYSTEM REQUIREMENTS	4
CONNECTION DIAGRAM	5
DEVICE FUNCTION	6
Transmitter Panel	6
Receiver Panel	7
IR Pin Assignment	8
SPECIFICATION.....	8
Specification	8
Cable Specifications	9
Support Resolution	9
WARRANTY	10

INTRODUCTION

EXP-HDBASET-100 with us allows one HDMI, Bi-direction IR to be connected up to 60meters via single CAT.6 cable for Computer, Laptop, BD Player, Game Console and others HDMI source devices. Supporting 4Kx2K/30Hz UHD resolution with 8bit deep color and lossless compressed audio that make EXP-HDBASET-101 a smart choice for home entertainment, company conference, commercial advertising and other applications.

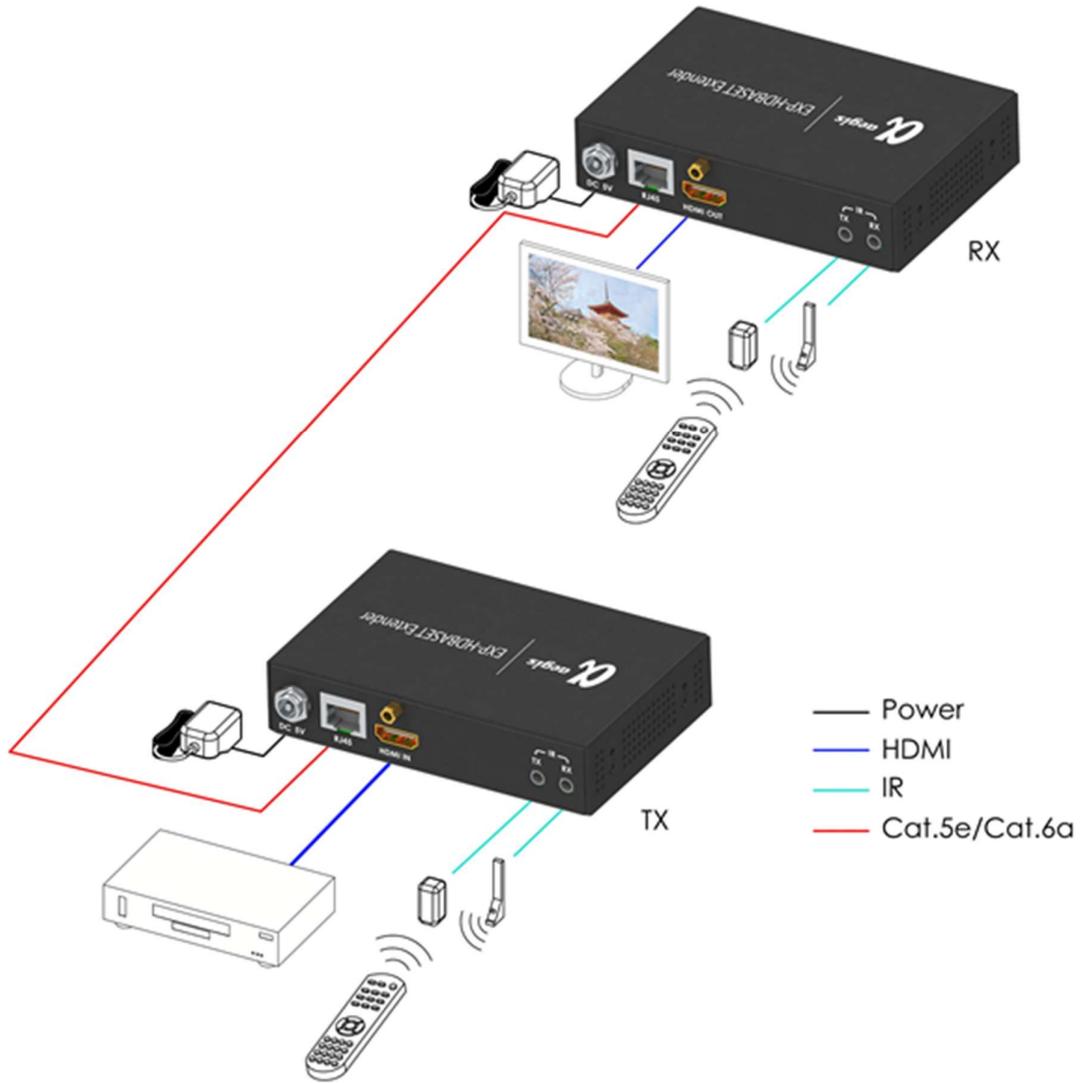
PACKAGE CONTENTS

- EXP-HDBASET-100 TX X 1 PCS
- EXP-HDBASET-100 RX X 1 PCS
- 5VDC / 2.0 Amp Locking Power adapter X 2 PCS
- IR Blaster Cable X 1 PCS
- IR Receiver Cable X 1 PCS
- User Manual X 1 PCS

SYSTEM REQUIREMENTS

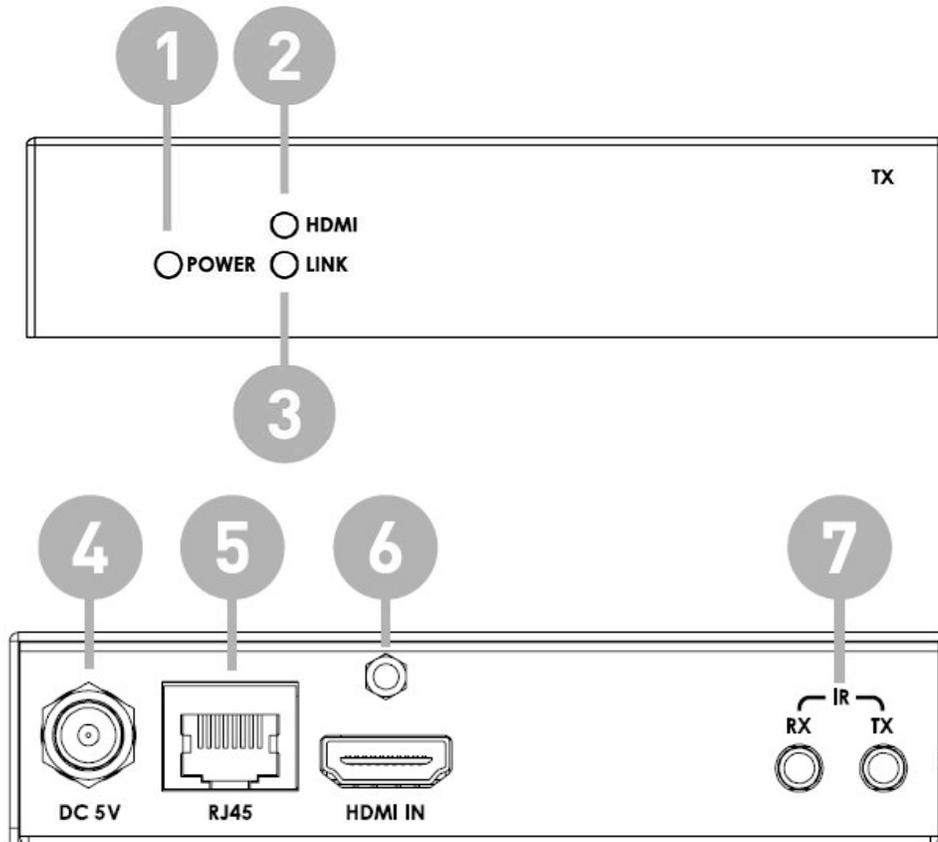
- HDMI Source device includes SetTop Box, BD Player, Computer, Laptop, Game Console, Media Player and Camcorder.
- HDMI Sink device includes LED/LCD Monitor, LED/LCD TVs, Projector and AV Receiver.
- HDMI 2.0 Premium Certified Cable-Highly recommended
- Standard 24AWG Cat.5e, Cat.6 or Cat.7 Cable-Highly recommended

CONNECTION DIAGRAM



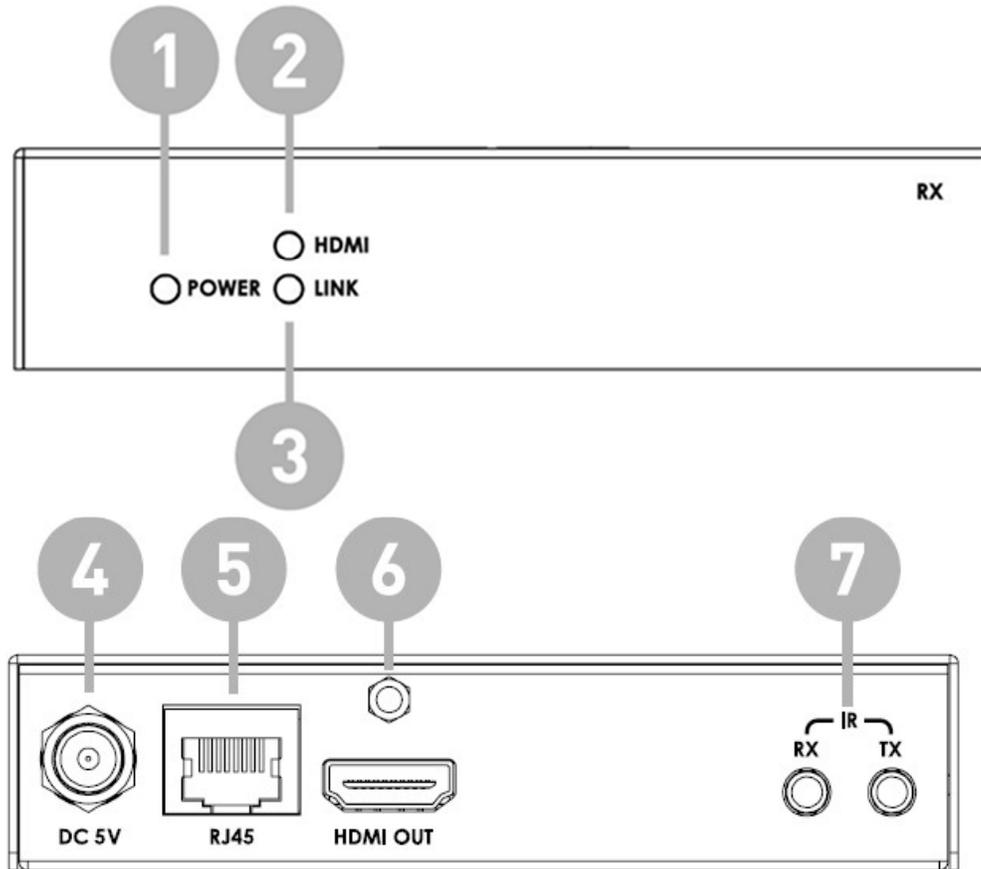
DEVICE FUNCTION

Transmitter Panel



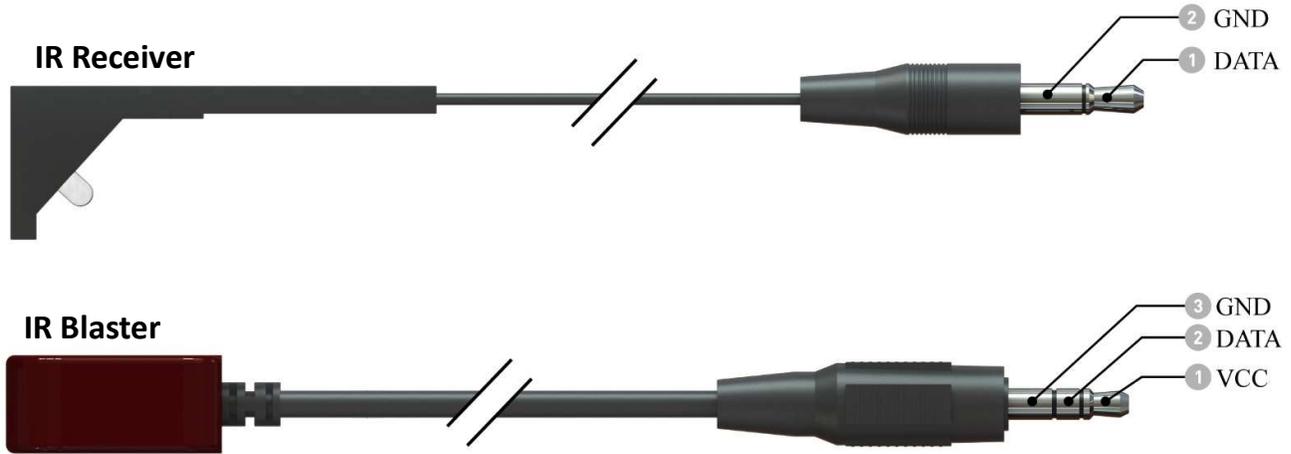
1. **POWER LED** : This LED will illuminate when power adapter plug in EXP-HDBASET-100 TX.
2. **HDMI LED** : This LED will illuminate when TX connect compatible RX and HDMI signal start to transmission.
3. **LINK LED** : This LED will illuminate when TX connect compatible RX and RJ45 signal start to transmission.
4. **DC IN** : 5VDC / 2.0 Amp Locking Power Jack
5. **RJ45**: Connect to EXP-HDBASET-100 Receiver with single Cat.6 cable for HDMI, IR Blaster, IR Receiver signal transmission.
6. **HDMI IN** : Connect to HDMI source devices, such as SetTop Box, BD Player, Computer, Laptop, Game Console, Media Player and Camcorder.
7. **IR RX** : Receiving IR signal to remote control HDMI sink devices via IR Receiver Cable.
IR TX : Transmitting IR signal to remote control HDMI source devices via IR Blaster Cable.

Receiver Panel



1. **POWER LED:** This LED will illuminate when power adapter plug in EXP-HDBASET-100 TX.
2. **HDMI LED :** This LED will illuminate when TX connect compatible RX and HDMI signal start to transmission.
3. **LINK LED :** This LED will illuminate when TX connect compatible RX and RJ45 signal start to transmission.
4. **DC IN :** 5VDC / 2.0 Amp Locking Power Jack
5. **RJ45 :** Connect to EXP-HDBASET-100 Transmitter with single Cat.6 cable for HDMI, IR Blaster, IR Receiver signal transmission.
6. **HDMI OUT :** Connect to HDMI sink devices, such as LED/LCD Monitor, LED/LCD TVs, Projector and AV Receiver.
7. **IR RX :** Receiving IR signal to remote control HDMI source devices via IR Receiver Cable.
IR TX : Transmitting IR signal to remote control HDMI sink devices via IR Blaster Cable.

IR Pin Assignment



SPECIFICATION

Specification

Model No	EXP-HDBASET-100 TX	EXP-HDBASET-100 RX
HDMI Bandwidth	340MHz	
HDMI Resolution	720P/1080P(60m),4K30 4:4:4(40m),4k60 4:2:0(40m)	
Audio Format	LPCM、DTS Digital, Dolby Digital	
HDCP	1.4/2.2	
Input Port	HDMI x 1	RJ45 x 1
Output Port	RJ45 x 1	HDMI x 1
Control Port	IR Blaster x 1 - 3.5mm IR Receiver x 1 - 3.5mm	
IR Frequency	20-60Khz	
Power Supply	5VDC / 2.0 Amp	
Power Consumption	10W - Max.	
Chassis Material	Metal	
Chassis Color	Black	
Operating Temperature	0°C - 40°C / 32°F - 104°F	
Storage Temperature	-20°C - 85°C / -4°F - 185°F	
Humidity	0 - 95% RH (Non-Condensing)	
Dimension	112 mm X 76 mm X 25 mm	
Weight	600 g	

Cable Specifications

Cable Length	1080p/60Hz 8 bit	4K/30Hz 8 bit 4:4:4	4K/60Hz 8 bit 4:2:0
HDMI Cable	2m	2m	2m
Cat.5e/6/6e/7	60m	40m	40m

Support Resolution

Supported Resolutions (Hz)
<u>800x600@ 60 72 75</u>
<u>1024x768@60 70 75</u>
<u>1280x720p@50 59 60</u>
<u>1280x960@60 85</u>
<u>1280x1024@60 75 85</u>
<u>1360x768@60</u>
<u>1440x900@ 60 75</u>
<u>1600x900@60</u>
<u>1600x1200@60</u>
<u>1920x1080p@24 25 29 30</u>
<u>1920x1080p@60</u>
<u>2560x1440@60</u>
<u>2560x1600@60</u>
<u>2048x1080p@30</u>
<u>2048x1080p@60</u>
<u>3840x2160p@24 25 30(4:4:4 70m Cat.6)</u>
<u>3840x2160p@50 60 (4:2:0 70m Cat.6)</u>
<u>4096x2160p@24 25 30(4:2:0 70m Cat.6)</u>
<u>4096x2160p@50 60 (4:2:0 70m Cat.6)</u>

WARRANTY

Limited 3 Year Warranty

aegis Multimedia INC. (“Manufacturer”) warrants that this product is free of defects in both materials and workmanship for a period of 3 years as defined herein for parts and labor from date of purchase. This Limited Warranty covers products purchased in the year 2019 and after. During the warranty period, and upon proof of purchase, the product will be repaired or replaced (with same or similar model) at our option without charge for parts or labor for the specified product lifetime warranty period.

This warranty shall not apply if any of the following:

- A. The product has been damaged by negligence, accident, lightning, water, or mishandling.
- B. The product has not been operated in accordance with procedures specified in operating instructions.
- C. The product has been repaired and or altered by other than the manufacturer or authorized service center.
- D. The product's original serial number has been modified or removed.
- E. External equipment other than supplied by the manufacturer, in the determination of a manufacturer, shall have affected the performance, safety or reliability of the product.
- F. Part(s) are no longer available for the product.

If the product needs repair or replacement during the specified warranty period, the product should be shipped back to Manufacturer at Purchaser's expense. Repaired or replaced product shall be returned to Purchaser by standard shipping methods at Manufacturer's discretion. Express shipping will be at the expense of the Purchaser.

No other warranty, express or implied other than Manufacturers shall apply.

The manufacturer does not assume any responsibility for consequential damages, expenses or loss of revenue or property, inconvenience or interruption in operation experienced by the customer due to a malfunction of the purchased equipment. No warranty service performed on any product shall extend the applicable warranty period. This warranty does not cover damage to the equipment during shipping and Manufacturer assumes no responsibility for such damage. This product warranty extends to the original purchaser only and will be null and void upon any assignment or transfer.