

## **FX-EX21B**

# **50m HDMI Extender over single Cat5e/6 cable,with Bi-directional wide-band IR,EDID**

### **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.

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## Feature

- Allows HDMI Audio/Video Signals and IR to be transmitted over a 50m single Cat5e/6 cable
- Transmit a wide-band(38k-56kHz)Bi-Directional IR control signal together with the HDMI signal.
- Support 24bit deep color
- Automatically adjusts feedback,equalization and amplification
- EDID DIP switch on transmitter to enhance EDID communication between sources and displays
- Support PCM,Dolby Digital and DTS Digital surround
- Follows IEEE-568B cable termination standards
- Support 3D.
- Power consumption:4W
- Size:TX(LxWxH):127.1x70.6x28.2mm, RX(LxWxH):85x65x24mm

## NOTICE

Our company reserve the right to make changes in the hardware, packaging and any accompanying documentation without prior written notice.

## SPECIFICATIONS

Operating Temperature Range	-5 to +65°C(+23 to +149°F)
Operating Humidity Range	5 to 90%RH (No Condensation)
Data transfer speed	6.75Gbps
Connectors on Transmitter	HDMI Receptacle x 2 (1xHDMI input, 1xHDMI loop output) RJ45 Receptacle x 1 Power DC Receptacle x 1 IR Receptacle x 2(for IR TX and RX cable)
Connectors on Receiver	HDMI Receptacle x 1 RJ45 Receptacle x 1 Power DC Receptacle x 1 IR Receptacle x 2(for IR TX and RX cable)
Resolution outputs	1080p/1080i/720p/576p/480p
Audio format supported	DTS-HD Master Audio, Dolby True HD, multi-channel 5.1, stereo etc
Output Video Signal	HDMI

Dimension (L×W×H)	TX: L127.1xW70.6xH28.2mm RX: L85xW65xH24mm
Power supply	DC 5V Power supply
Transmission Distance	1080p up to 50m(1)
IR wavelength & frequency	Wavelength: 940nm IR Frequency: 38KHz - 56KHz
Power consumption	4W(MAX)
Size(LxWxH)	TX:127.1x70.6x28.2mm; RX:85x65x24mm
Net Weight	319g (1 Pair)

**Note: Specifications are subject to change without notice. Mass and dimensions are approximate.**

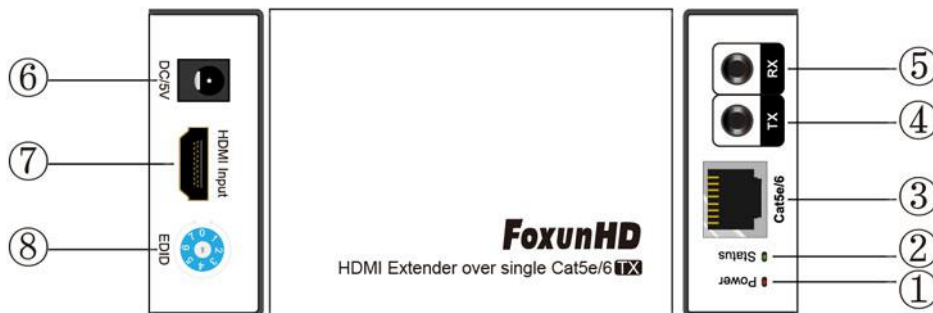
**PACKING CONTENTS**

- 1) FX-EX21B (TX&RX)
- 2) 2 x IR TX Emitter
- 3) 2x IR RX Receiver
- 4) 2x5V/1A DC Adapter
- 5) 1xUser Manual

**Notes: Please confirm if the product and the accessories and all in duded, if not please contact with the dealers.**

**PANEL DESCRIPTION**

**FX-EX21B-TX**



- 1 ) Status of signal connection when this works well,the LED lights
- 2) Status of signal connection when power input on ,the LED lights
- 3) Cat5e/6 output

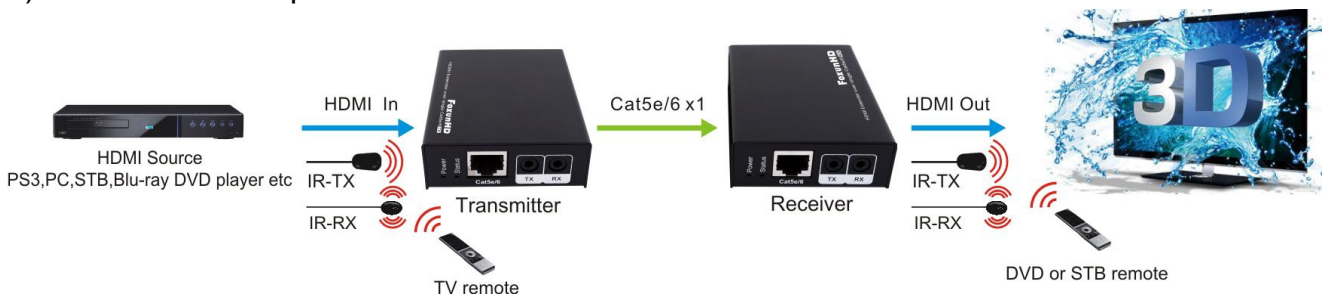
- 4) IR-TX
- 5) IR-RX
- 6) DV5V,power input
- 7) HDMI input
- 8) EDID switch(adjust EDID to ensure better compatibility)



- 1 ) Status of signal connection when this works well,the LED lights
- 2) Status of signal connection when power input on ,the LED lights
- 3) Cat5e/6 input
- 4) IR-TX
- 5) IR-RX
- 6) DV5V,power input
- 7) HDMI output

**CONNECT AND OPERATE**

- 1) Connect 1 source such as a Blu-Ray Player, game console, STB, etc. to the HDMI input on the transmitter
- 2) Connect 1 display such as an HDTV or HD Projector to the HDMI output on the receiver .
- 3) Connect a single Category 5e/6/7 up to (50m) to both transmitter and receiver.
- 4) Plug in the IR-RX cable and IR-TX cable to the IR jack port located on the Receiver and transmitter balun.
- 5) Power on the transmitter and receiver firstly, then power on the source and sink.
- 6) DIP switch Description



**Attention: 1) Insert/Extract cable gently.**

**2) Please don't insert into or pull out HDMI Cable when power on. please connect Cable only when power is off.**

#### **EDID for Transmitter**

<b>Position</b>	<b>Functions</b>
0	HDMI 1080P 2CH
1	HDMI 1080P 5.1CH
2	HDMI 1080P 7.1CH
3	HDMI 1080P 3D 2CH
4	HDMI 1080P 3D 5.1CH
5	HDMI 1080P 3D 7.1CH
6	Reserved
7	Reserved

**Note :**The distance is 40m under 5.1CH or 7.1CH

#### **MAINTENANCE**

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

#### **PRODUCT SERVICE**

1) **Damage requiring service:** The unit should be serviced by qualified service personnel if:

- (a)The DC power supply cord or AC adaptor has been damaged;
- (b)Objects or liquids have gotten into the unit;
- (c)The unit has been exposed to rain;
- (d)The unit does not operate normally or exhibits a marked change in performance;
- (e)The unit has been dropped or the cabinet damaged.

2) **Servicing Personnel:** Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.

3) **Replacement parts:** When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.

4) **Safety check:** After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

**WARRANTY**

If your product does not work properly because of a defect in materials or workmanship, our Company (referred to as "the warrantor" ) will , for the length of the period indicated as below,

**(Parts(2)Year ,Labor(90) Days)** 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 of a refurbished product. The decision to repair or replace will be made by the warrantor.

During the "Labor" Limited Warranty period there will be no charge for labor.

During the "Parts" warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. 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.

**LIMITED WARRANTY LIMITS AND EXCLUSIONS**

1) This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by warrantor,or failures which result from accidents,misuse,abuse,neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service center or other Authorized Servicer, or damage that is attributable to acts of God.

2) 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, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive, but are for illustration only.

PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.