

# **100M HDBaseT HDMI Extender** over single CAT5e/CAT6/CAT6A

# EB-100-TR

**User Manual** 

Ver 3



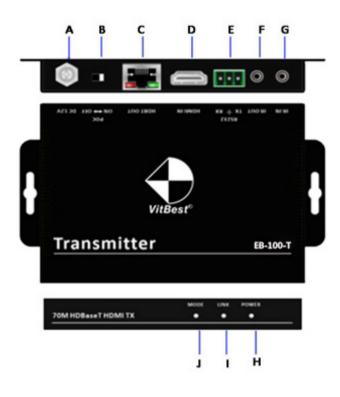


### 1. Features

- Extend HDMI/Control up to100m over one Cat 5e/ Cat 6/Cat 6A cable;
- With a little switch on the side for being optional to disable and enable POC easily;
- Support HDMI up to 4K@60HZ(4:2:0);
- ◆ HDCP 2.2 Compliant, support 3D/48 bit;
- All connectors on one side for easier installation;
- ♦ Bi-directional RS-232,IR&LAN;
- Power both units from TX or RX side with POC;
- Status LED for all connections on front.
- EDID pass-through straightly.
- Support 7.1 DTS Master HD, Dolby True HD.

### 2. Panels

# Transmitter

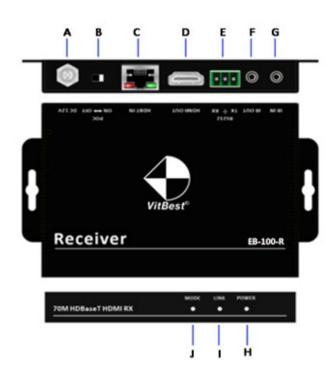


- A: DC 12V input port
- B: POC function OFF/ON switch
- C: RJ45 output port
- D: HDMI input port
- E: 3-pin RS232 port
- F: IR transmitter port

G: IR receiver port

- H: POWER: The indicator will light up when power on
- I: LINK: It will light up when the transmitter and receiver connected successfully, flecking means connection is not stable, off means the connection is failed.
- J: **MODE:** It will flick once per second if the system runs good, on the contrary, it will be off or light up.

# Receiver

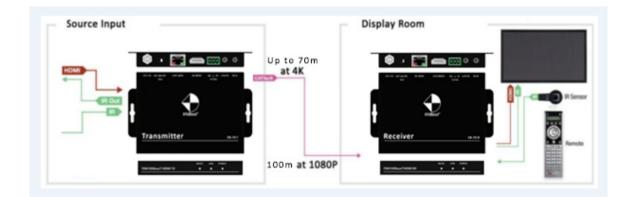


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### 3. Specification

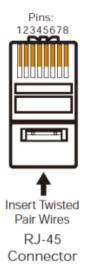
Model	EB-100-T	EB-100-R
Input	1*HDMI, 1*RS232, 1*IR-TX,	1*HDBaseT
	1*IR-RX	
Output	1*HDBaseT	1*HDMI, 1*RS232, 1*IR-TX, 1*IR-RX
Standard	HDMI 1.4 / HDCP 2.2	
Resolution	1920x1200, 1680x1050, 1360x768, 1280x800, 1920x1080, 1600x900, 1366x768,	
	1280x720, 1024x576, 1920x1200, 1680x1050, 1360x768, 1280x800, 4096x2160@30Hz,	
	3840x2160@30Hz	
Color Space	1080p: 36Bit Deep Color 4K: 24Bit True Color, 4:2:2	
Bandwidth	10.2Gbps	
Transmission	CAT5e/6/6A cable: 100m(1080p60Hz 4:4:4)	
Distance	CAT6/6A cable: 70m(4K60Hz 4:2:0)	
Dimension	115×84×16 (mm)	
Weight	120g	
Power	AC: 100-240V 50/60Hz 2A Max DC: 12V 2A	
Consumption	≤11W	
Working	10%-90%	
Humidity		
Working	0℃-50℃	
Temperature		
Storage	-20°C-75°C	
Temperature		

# 4. Connection Diagram



#### 5. RJ-45 connector

Suggest to use twisted shield pair 24AWG cable, the bandwidth at least 400MHz, and crystal connector.



TIA/EIA-T568B		
Pin	Wire Color	
1	White-orange	
2	Orange	
3	White-green	
4	Blue	
5	White-blue	
6	Green	
7	White-brown	
8	Brown	