

HE-10 HDMI Twisted Pair Extender Operation Manual V1.0

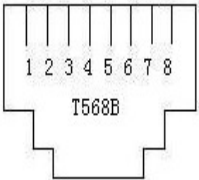
1. Instruction:

- ◆ The passive enhanced HDMI distance extension kit is the accessory for both transmitter and receiver.
- ◆ **Kit distinction:** the back of the transmitter is marked with "T", the receiver is marked with "R".
- ◆ If the transmission effect is less good, please charge on the receiver.
- ◆ Transmits HDMI signal over a single CAT.6 cable.

2. Specifications:

Item	Transmitter (T)	Receiver (R)
Maximum Resolution	1920*1080@60Hz	
Input TMDS signal	1.2Vp-p	
Input DDC signal	5Vp-p (TTL)	
Maximum Distance	80m (Using CAT.6 Cable)	
Input Connector	HDMI A Female	RJ45
Output Connector	RJ45	HDMI A Female
DC Offset	—	DC 5V 1A
Net Weight	0.06KG	
Gross Weight	0.16KG	
Packing Size	140MM *90MM*50MM (L*W*H)	

3. RJ45 PIN & Wiring standard definition:

	RJ45		
	PIN	Color	Function
	1	White-orange	TMDS DATA 2+
	2	Orange	TMDS DATA 2-
	3	White-green	TMDS CLOCK +
	4	Blue	TMDS DATA 1+
	5	White-blue	TMDS DATA 1-
	6	Green	TMDS CLOCK -
	7	White-brown	TMDS DATA 0+
	8	Brown	TMDS DATA 0-

Note:

- 1) Make sure that the cable wiring order is the B class, which is orange-white, orange, green-white, blue, blue-white, green, brown-white, brown .
- 2) Please ensure the connection is fine before operating the signal source equipment (such as PC and edge blending processor).
- 3) Check if there's any loose for every connection, make sure they are well connected if the transmission distance is far away.

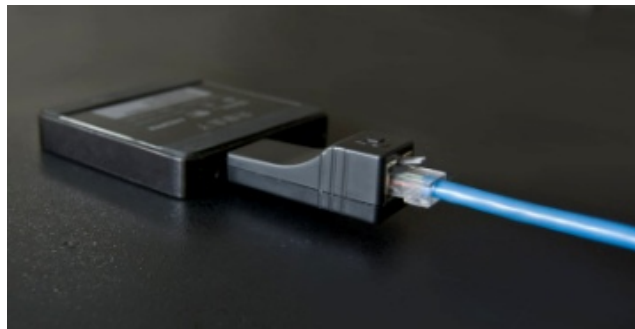
4. Transmission distance:

The transmission distance of using CAT.6 cable(With the different performance of display screen,signal source device and twisted pair cable, the maximum transmission distance may be slightly different).

Resolution	Distance(m)	Resolution	Distance(m)
800*600	80	1600*900	60
1024*768	80	1680*1050	60
1280*720	60	1920*1080	50
1280*1024	60	1920*1200	50
Downward compatible with multiple resolutions			

5. Connecting method:

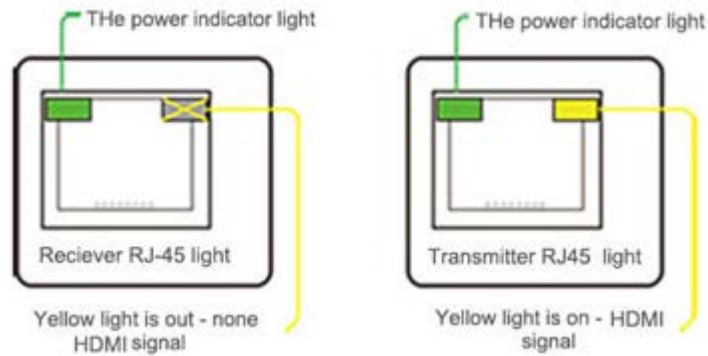
Connect the transmitter (HE-10-T) and the receiver (HE-10-R) through CAT.6 cable. Connect the transmitter to the HDMI signal source and connect the receiver to the display device. As shown below:



HE-10 transmitter connection



HE-10 receiver connection



Network port indicator light

6. Precautions:

- 1) HE-10 does not support HDCP compliant.
- 2) Resolutions below 640 * 480 may cause noise on the screen.
- 3) Keep away from the equipment that can generate electromagnetic waves, such as microwave ovens, radio equipment, high voltage lines, etc.
- 4) **Please use high quality CAT.6**, including cable and crystal head. The performance of twisted pair cable may affect the maximum transmission distance and the quality of image.
- 5) Network wiring cannot use STP wire or flat wire. Otherwise it will result in no images.
- 6) Transmitter and receiver cannot be mixed, and need to be connected by rules. Otherwise it will result in no images.
- 7) **During use please do not hot plug. Otherwise, the device will be damaged.**