

HM-10 HDMI Mini Twisted Pair Extender Instructions V1.0

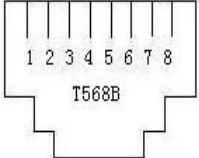
1. Instruction:

- ◆ 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".
- ◆ Transmits HDMI signal over a single **CAT.6** cable.

2. Specifications:

| Item | Transmitter (T) | Receiver (R) |
|--------------------|-------------------------|---------------|
| Maximum Resolution | 1920×1200@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 |
| Net Weight | 0.06KG | |
| Gross Weight | 0.16KG | |
| Packing Size | 140*90*50 mm (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.

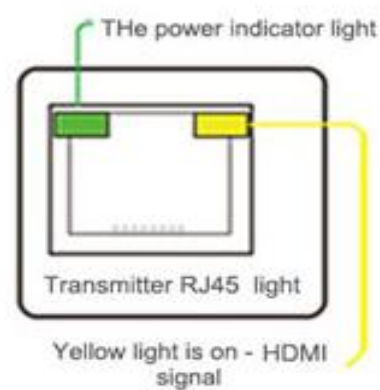
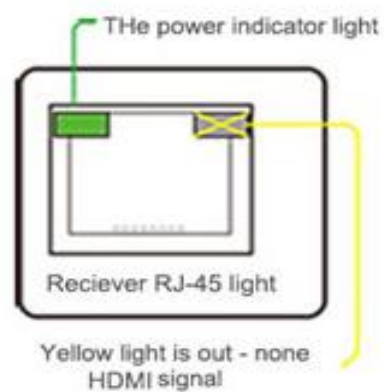
4. Transmission distance:

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 (HM-10-T) and the receiver (HM-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:



Network port indicator light

6. Precautions:

- 1) HM-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.**