

安全注意事项:

请先详细阅读所有说明, 然后尝试安装或操作本设备, 并遵守下列注意事项:

- * 请遵循标示于本产品上的所有警告与指示
- * 请勿让本机受到雨淋, 或被泼洒或浸泡到任何液体。
- * 请勿将任何物件透到外壳槽孔塞进机器里, 以避免损坏机器内部零件。
- * 请勿尝试自行修理或拆开机器外壳, 以免发生触电。
- * 设备外壳可能配有槽孔散热及通风, 以防止过热, 请勿阻挡散热孔。
- * 安装前请先关闭电源, 带电安装可能会损坏设备。
- * 在工作过程中, 请勿带电拨插连接线缆, 以免损坏。
- * 本产品上已明确标明电源参数, 在使用非我公司标配电源时请先确认电源参数, 以免烧坏设备。

一、产品概述

HD4000P 是一款高性能的 HDMI 图像传输器, 其主要功能是通过一条网线将 HDMI 图像信号**无压缩、无延时的**传输 100 米的距离, 支持 IR 红外遥控信号回传和 RS-232 串口信号的双向传输, 支持 USB 信号双向传输, 支持 1 路 HDMI 环出及 2 路 HDMI 信号延长输出。

二、产品特点

- 1) 采用 HDBaset 技术, 支持 HDMI 图像信号传输无压缩、无延时显示;
- 2) 支持 1 路 HDMI 信号环出, 2 路 HDMI 信号延长输出;
- 3) 支持全高清 4K@60Hz 的 HDMI 信号传输;
- 4) 1080p 全高清信号通过 Cat5a 线可延长 100 米;
- 5) 支持双向红外信号回传以及串口 RS-232 信号双向传输;
- 6) 支持 USB 信号传输, 鼠标键盘远距离控制, 读取 U 盘信息;
- 7) 支持支持 3.5mm 音频口输出;
- 8) 采用 POC 供电技术, 只需要为发射端或接收端其中一端供 12V 电源即可;

三、包装清单



HDMI 转 HDBaseT
TX 发射器 × 1



HDBaseT 转 HDMI
RX 接收器 × 1



DC12V/3A 电源 × 1



红外发射延长线 × 1



红外接收延长线 × 1

用户说明书 × 1

四、安装要求

1、信号来源设备：

带 HDMI 输出接口的信号源，如 DVD、PS3、机顶盒、PC 等。

2、显示设备：

带 HDMI 输入接口的显示设备，如电视机、投影仪。

3、线缆：

非屏蔽或屏蔽五类/六类网线（Cat5e/Cat6/Cat6A/Cat7），网线接口标准为 568B

五、接口

5.1 发射端（Transmitter）



- ①、RS-232 串口（可以双向传输）；
- ②、红外发射延长线端口，用于接红外发送延长线；
- ③、红外接收延长器端口，用于接红外接收延长线；
- ④、HDBaset 输出口，通过网线与接收器相连接；
- ⑤、重置按钮
- ⑥、电源指示灯，接通电源后为红色常亮；
- ⑦、DC-12V 直接电源（发送端和接收端只需要一端接电源）
- ⑧、USB 输入口，接输入电脑；
- ⑨、HDMI 输入口，接信号源；
- ⑩、HDMI 信号环出，接显示器。

5.2 接收端 (Receiver)



- ①、RS-232 串口（可以双向传输）；
- ②、红外发射延长线端口，用于接红外发送延长线；
- ③、红外接收延长器端口，用于接红外接收延长线；
- ④、HDBaset 输出口，通过网线与接收器相连接；
- ⑤、重置按钮
- ⑥、电源指示灯，接通电源后为红色常亮；
- ⑦、DC-12V 直接电源(发送端和接收端只需要一端接电源)
- ⑧、USB 输入口，接键盘、鼠标、U 盘等；
- ⑨、HDMI 信号输出口 1，接显示器；
- ⑩、HDMI 信号输出口 2，接显示器；
- ⑪、3.5mm 音频输出口，接耳机或音响。

5.3 指示灯操作

- ①电源指示灯—上电常亮；
- ②线路连接正常—RJ45 座子黄灯常亮，绿灯闪；
- ③无 HDMI 信号源输入或 HDMI 没有接显示终端—RJ45 座黄灯闪，绿亮不亮；
- ④网线没有连接—RJ45 座灯全不亮；

六、连接示意图

6.1 制作网线

IEEE-568B 标准线序：1-橙白，2-橙，3-绿白，4-蓝，5-蓝白，6-绿，7-棕白，8-棕。

6.2 连接方式



6.3 双向红外回传说明

- 1) 本产品支持双向红外回传，可在 TX 端通过遥控器控制 DVD，也可以在 RX 端通过遥控器控制电视。
- 2) 如果在 RX 端控制，将红外发射延长线连接 TX 的 IR OUT 接口，将红外接收延长线在连接 RX 的 IR IN 接口。如果在 TX 端控制，将红外接收延长线连接 TX 的 IR IN 接口，将红外发射延长线连接 RX 的 IR OUT 接口。

6.4 RS-232 串口传输

由 RX、TX、GND 组成，串口信号可双向传输，可定义任何一端为 RS-232 信号的发送端或接收端；

七、常见问题

Q: 电视机无图像输出？

A: 检查主机电源是否连接好，根据指示灯状态检查网线和 HDMI 线连接是否正常。

Q: 指示灯正常，显示终端无图像？

A: 检查 HDMI 信号接收设备是否切换到相应的 HDMI 信号输入接口。

Q: 电源灯亮，RJ45 座黄灯闪、绿灯不亮，无图像？

A: 检查信号源到发送端的 HDMI 线和接收端至显示单元的 HDMI 线是否连接正常。

Q: 电源灯亮，RJ45 座双灯不亮？

A: 请检查网线是否连接正常或更换质量更佳网线。

Q: 输出图像闪白点或者噪点？

A: 请更换发射器与信号源之间的 HDMI 线，或者用尺寸较短的 HDMI 线测试。

声明

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Security considerations:

Please read all of the instructions、 and then attempt to install or operate the equipment、 and to comply with the following notes:

- * Please follow all warnings and instructions marked on this product
- * Do not allow this machine to be caught in the rain or splash or soak into any liquid.
- * Do not put any objects into the housing slots in the machine in order to avoid damage to the internal parts of the machine
- * Do not attempt to repair or open the machine housing、 so as to avoid electric shock.
- * The equipment housing may be equipped with heat dissipation and ventilation slots to prevent overheating、 do not block the cooling vents.
- * Please turn off the power before installation、 electric installation may damage the device.
- * In the course of work、 do not charge plug and connecting cables to avoid damage.
- * This product is clearly marked power on the parameter、 in the use of our standard power supply please make sure that the power supply parameters、 so as not to burn out the device.

1st、 Overview

TK-HD100P is a high-performance HDMI image transmission devices. Its main function is to transmit the HDMI image signal uncompressed and without delay through a network cable at a distance of 100 meters. It can support up to 100 meters of 1080P resolution signals. IR infrared remote control signal return and two-way transmission of RS-232 serial signal, support two-way transmission of USB signal, support 1 HDMI loop output and 2 HDMI signal extension output.

2nd、 Features

- 1) Adopt HDBaset technology, support HDMI image signal transmission without compression and delay display;
- 2) Support 1-way HDMI signal loop-out, 2-way HDMI signal extension output;
- 3) Support full HD 1080p@60Hz HDMI signal transmission;
- 4) 1080p full HD signal can be extended 100 meters through Cat5a cable;
- 5) Support two-way infrared signal return and serial RS-232 signal two-way transmission;
- 6) Support USB signal transmission, remote control of mouse and keyboard, and read U disk information;
- 7) Support 3.5mm audio port output;
- 8) Using POC power supply technology, it is only necessary to supply 12V power to one end of the transmitter or receiver;

3rd、Packing list



HDMI to HDBaseT Sender
TX x 1pcs



HDBaseT to HDMI Receiver
RX x 1pcs



DC12V 3A Power supply
X 1pcs



IR blaster extension
cable X 1pcs



IR receiver extension
cable X 1pcs

User' s manual book
X 1pcs

4th、Installation requirements

- 1、HDMI source device:
HDMI output signal sources. such as DVD、 andPS3、 STB、 PC and so on.
- 2, Display device:
HDMI input display devices, such as televisions, projectors.
- 3, Cable:
UTP/STP cat5e/6/6a/7 cable, follow standard IEEE-568B

5th、 Interfaces

5.1 Transmitter



- ①, RS-232 serial port (two-way transmission is possible);
- ②, infrared emission extension cable port, used to connect infrared transmission extension cable;
- ③, Infrared receiving extender port, used to connect infrared receiving extension line;
- ④, HDBaset output port, connected with the receiver through the network cable;
- ⑤, reset button
- ⑥, The power indicator light is always red when the power is turned on;
- ⑦, DC-12V direct power supply (only one end of the transmitter and receiver need to be connected to the power supply)
- ⑧, USB input port, connect to input computer;
- ⑨, HDMI input port, connect the signal source;
- ⑩., The HDMI signal is looped out and connected to the monitor.

5.2 Receiver



- ①、RS-232 serial port (two-way transmission is possible);
- ②、infrared emission extension cable port, used to connect infrared transmission extension cable;

- ③、 Infrared receiving extender port, used to connect infrared receiving extension line;
- ④、 HDBaset output port, connected with the receiver through the network cable;
- ⑤、 reset button
- ⑥、 The power indicator light is always red when the power is turned on;
- ⑦、 DC-12V direct power supply (only one end of the transmitter and receiver need to be connected to the power supply)
- ⑧、 USB input port, connect keyboard, mouse, U disk, etc.;
- ⑨、 HDMI signal output port 1, connected to the monitor;
- ⑩、 HDMI signal output port 2, connected to the monitor;
- ⑪、 3.5mm audio output port, connected to headphones or audio.

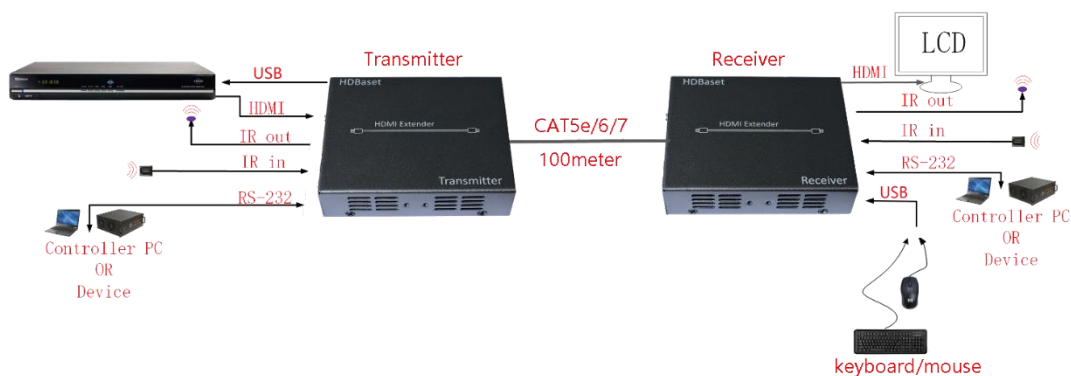
6th、 installation procedures

6.1 Making network cable

Follow the Standard of IEEE-568B linear order:

- 1- the Orange and white, 2- Orange
- 3- green and white, 4- blue
- 5- Blue and white, 6- green
- 7- Brown and white, 8- Brown

6.2 Connection



6.3 IR introduce

1) TK-HB70 support IR infrared return, through the remote control DVD in TX, or Through remote control TV in RX.

2) If control in RX -side , put IR blaster extension cable connect TX' s IR OUT interface, put IR receiver extension cable connect RX' s IR IN interface. If control in TX side, put IR blaster extension cable connect

RX' s IR OUT interface, put IR receiver extension cable connect TX' s IR IN interface.

6.4 RS-232 serial transmission

By RX, TX, GND, serial signal can be extended by network cable, can be defined at any side of the RS-232 signal transmitter or receiver.

7th、 RFQ

Q: No video output?

A: Check the power supply is connected, according to the led status check network cables and HDMI cable is ok.

Q: LED status ok, but HDMI display no video output?

A: Check HDMI display whether switcher to HDMI channel that HDMI input.

Q: Power light on, RJ45 yellow light flashing, green light is off, no video?

A: Check HDMI cable in transmitter and receiver

Q: Power light on, RJ45 lamps light off?

A: Please check whether the network cable is connected or replace a better quality network cable.

Q: Output vedio with flash or white noise?

A: Please replace the HDMI cable between the transmitter and the signal source, or test it with a short HDMI cable.

Proclamtion

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