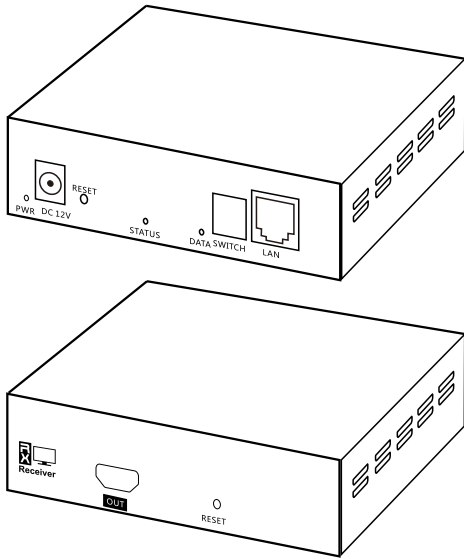


HSV703 高清矩阵式网络延长器

使用手册



1 产品介绍与特性

HSV703 高清矩阵式网络延长器采用 TCP/IP 局域网技术, 将高清视频信号进行处理和分发。采用视觉无损压缩技术, 保证静态画面稳定清晰的同时也提高了画面的流畅度; 最高分辨率支持4096*2160@30Hz。接收端支持图像切换(分配), 支持多种形式的拼接, 可在软件 (Windows)界面上预览每路信号源的图像, 在对应模式下切换或拼接可通过拖拽视频源的方式进行, 操作简便。HSV703 加入了多项工业级设计以满足各种应用场景的需求, 比如PoE, 铝合金外壳, 安装定位孔等

功能特性

1. 采用专用信号增强技术, 点对点支持CAT6线缆150米传输超高清4K信号。
2. 高性能处理器保障全链路低时延, < 50ms。
3. 支持 802.3af标准POE供电。
4. 配有专用的控制程序支持Windows系统
5. 支持第三方控制系统控制
6. 支持图像预览

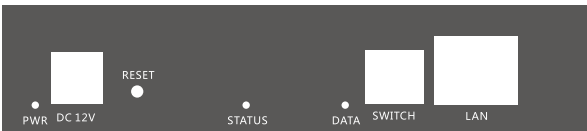
2.技术参数

供电电压	12V/POE 802.3af		
功耗	3W	视频接口	HDMI type A 母头
网络连接	UTP/STP CAT5e/6		
工作模式	点对点模式 组播模式 级联模式		
输出端通道	最大 253路		
传输距离	CAT5e 100米	CAT6 150米	
音频输出格式	全格式高清音频	THD < 0.1%	信噪比 110dB
支持分辨率	4K@30Hz/1080p@50Hz / 1080p@60Hz / 1080p@24Hz/1080i@50Hz / 1080i@60Hz/720p@50Hz / 720p@60Hz /		
点对点	时延≤50ms	交换机	支持8K字节巨型帧的千兆交换机
工作温度	0°C - 55°C	存储温度	-20°C - 80°C
湿度	20% ~ 90% RH(Non-condensing)		尺寸 120mm*83mm*26mm

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3.接口说明

输入端



输出端



标识	类型	说明
IN	输入接口	高清视频信号输入
PWR	指示灯	接入电源时 指示灯常亮
DC 12V	电源输入	当不使用PoE供电时, 该接口连接12V电源适配器给设备供电
RESET	复位按键	短按系统复位
STATUS	指示灯	系统正常运行时慢闪,系统运行异常时快闪
DATA	数据指示灯	数据正常传输时常亮
SWITCH	拨码开关	设备分组配对
LAN	输入输出接口	千兆网口, 支持PoE供电

标识	类型	说明
OUT	输出接口	高清视频信号输出
PWR	指示灯	接入电源时 指示灯常亮
DC 12V	电源输入	当不使用PoE供电时, 该接口连接12V电源适配器给设备供电
RESET	复位按键	短按系统复位
DATA	数据指示灯	数据正常传输时常亮
SWITCH	拨码开关	设备分组配对
LAN	输入输出接口	千兆网口, 支持PoE供电

4. 操作说明

术语约定：

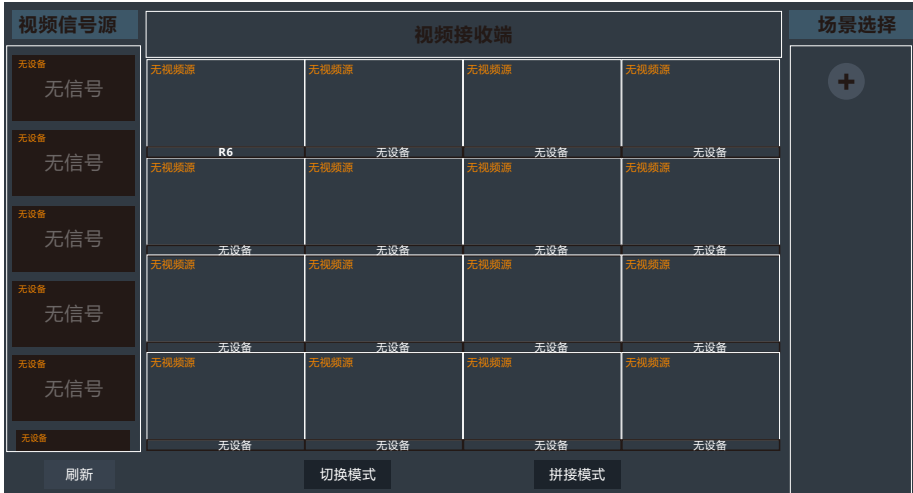
703：指用户购买的703TX与703RX

TX：指用户购买的703TX

RX：指用户购买的703RX

控制软件中，TXXX表示该设备是TX，IP地址为XXX；RXXX表示该设备是RX，IP地址XXX，例如：R6表示该设备为RX，IP地址为 169.254.2.6 (169.254.2.XXX为出厂默认IP地址)

1. 设备启动后，打开软件，软件会自动获取当前PC所在局域网中的703，也可通过点击左下角的“刷新”选项进行手动获取。下图为软件界面



2. 鼠标点击选择切换或者拼接模式

a. 切换模式：

- ① 鼠标左键点击左边相应TX的预览画面，然后将画面拖拽到相应RX的画面预览框中，即可将该RX切换到对应的TX视频源
- ② 通过鼠标点击拖拽RX预览画面到预览框外然后释放鼠标即可断开TX与RX的连接。
- ③ 可以将一个RX的预览画面拖拽至另一个RX预览框，即可同时完成“断开连接”以及“切换”操作

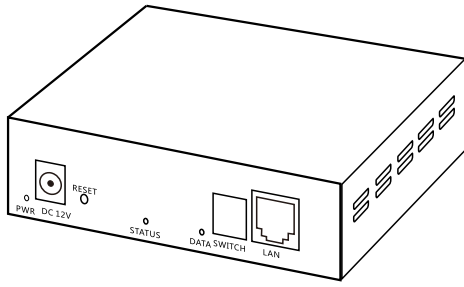


b. 拼接模式：

- ① 右侧TV Wall处使用鼠标左键点击切换到相应场景，也可通过鼠标右键更改场景名称或删除该场景。点击“+”号，弹出如下弹窗，选择对应的场景；点击“保存”可保存该场景配置，点击“取消”可取消当前场景配置
- ② 选择好相应场景后，点击画面预览框中的“+”分配RX。
- ③ 分配完所有RX后，通过鼠标点击拖拽一个TX预览画面至RX画面预览框中，双击可将图像放大至整个电视墙或缩小。
- ④ 通过鼠标点击拖拽RX预览画面到预览框外然后释放鼠标即可断开TX与RX的连接。



HSV703 HD IP Matrix Extender Manual



1 Product introduction

HSV703 HD IP Matrix extender uses TCP/IP local area network technology to process and distribute high-definition video signals. The use of visual lossless compression technology ensures stable and clear static images and also improves the fluency of the images; the highest resolution supports 4096*2160@30Hz. The receiving end supports image switching (distribution) and various forms of splicing. The image of each signal source can be previewed on Windows interface. Switching or splicing in the corresponding mode can be carried out by dragging the video source. Operation Simple. HSV703 has joined a number of industrial-grade designs to meet the needs of various application scenarios, such as PoE, aluminum alloy housing, installation positioning holes, etc.

Features

- Using dedicated signal enhancement technology, point-to-point support CAT6 cable 150 meters to transmit ultra-high-definition 4K signals.
- The high-performance processor guarantees low latency of the entire link, < 50ms.
- Support 802.3af standard POE power supply.
- Equipped with a dedicated control program to support Windows system, iOS system
- Support third-party control system control
- Support image preview

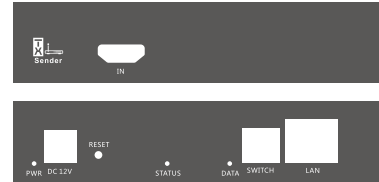
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2. Technical parameters

Power supply	12V/POE 802.3af		
Power consumption	3W	video interface	HDMI type A female
Network	UTP/STP CAT5e/6		
Working mode	Point-to-point mode Multicast mode Cascade mode		
Output channel	maximum 253 channels		
Transmission distance	CAT5e 100 meters CAT6 150 meters		
Point-to-point	delay ≤ 50ms		
Support resolution	4K@30Hz/1080p@50Hz / 1080p@60Hz / 1080p@24Hz / 1080i@50Hz/1080i@60Hz/720p@50Hz / 720p@60Hz /		
Audio output format	Full format HD audio	THD	<0.1% SNR 110dB
Switch	Gigabit switch supporting 8K byte jumbo frame		
Operating temperature	0°C-55°C	Size	120mm*83mm*26mm
Humidity	20% ~ 90% RH (Non-condensing)		
Storage temperature	-20°C-80°C		

3.Interface Description

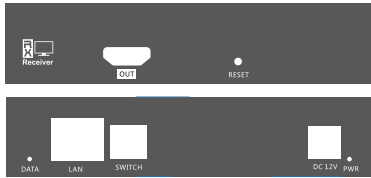
Transmitter



Standard	Type	Explanation
IN	Input interface	HD video signal input
PWR	Indicator light	When the power is connected, the indicator light is always on
DC 12V	power input	When PoE is not used for power supply, this interface is connected to a 12V power adapter to supply power to the device
RESET	Reset button	Short press system reset
STATUS	Indicator light	Flashes slowly when the system is operating normally, and flashes quickly when the system is operating abnormally
DATA	Data indicator	Always on during normal data transmission
SWITCH	DIP switch	Device pairing
LAN	Input and output interface	Gigabit Ethernet port, support PoE power supply

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Export end



Standard	Type	Explanation
OUT	Export interface	Import export interface High-definition video signal export
PWR	Indicator light	Incoming power source indicator light Tsuneaki
DC 12V	Source import	When this non-use PoE is supplied, the connection is connected to the 12V power source, and the equipment is supplied.
RESET	Rehabilitation pushbutton	Short pushbutton rehabilitation
DATA	Number setting indicator light	Lights up when data is normally transmitted
SWITCH	DIP switch	Equipment group distribution
LAN	Input and output interface	Thousand trillion network entrance, support PoE service

4. Operating Instructions

Terminology convention:

703: Refers to the 703TX and 703RX purchased by the user

TX: Refers to the 703TX purchased by the user

RX: Refers to the 703RX purchased by the user

In the control software, TXXX indicates that the device is TX, and the IP address is XXX; RXXX indicates that the device is RX, and the IP address is XXX, for example: R6 indicates that the device is RX, and the IP address is 169.254.2.6 (169.254.2.XXX is the factory Default IP address)

- After the device is started, open the software, the software will automatically obtain 703 in the local area network where the current PC is located, or you can click The "Refresh" option in the lower left corner can be obtained manually. The picture below shows the software interface



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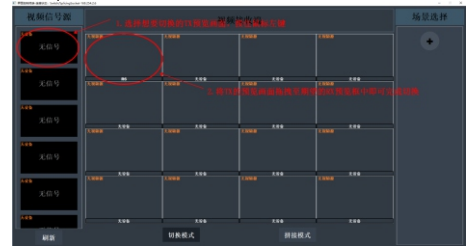
- Mouse click to select switch or splicing mode

a. Switch mode:

①. Click the preview screen of the corresponding TX on the left with the left mouse button, and then drag the screen to the screen preview box of the corresponding RX to switch the RX to the corresponding TX video source

②. Drag the RX preview screen out of the preview frame by clicking the mouse and then release the mouse to disconnect the TX and RX.

③. You can drag the preview screen of one RX to another RX preview frame to complete the "disconnect" and "switch" operations at the same time



b. Splicing mode:

①. Use the left mouse button on the TwWall on the right to switch to the corresponding scene. You can also use the right mouse button to change the scene name or delete the scene. Click the "+" sign, the following pop-up window will pop up, select the corresponding scene; click "Save" to save the scene configuration, click "Cancel" to cancel the current scene configuration



②. After selecting the corresponding scene, click "+" in the screen preview box to assign RX.

③. After all the RXs are allocated, click and drag a TX preview screen to the RX screen preview box with a mouse click, and double-click to enlarge or reduce the image to the entire TV wall.

④. Drag the RX preview screen out of the preview frame by clicking the mouse, then release the mouse to disconnect the TX and RX.



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