



# RGB Audio Matrix Switcher

Embedded software: HD seamless hybrid matrix switching embedded software V3.20

## TS-9116R



### Description:

The RGB series matrix switcher is a high-performance intelligent matrix switch device specially designed to meet the display switching and distribution of the most stringent high-resolution computer numbers (i.e. RGBHV signals), and is used to switch multiple signals from input channels to any output channel; the output channels are independent of each other. Audio series allows synchronous or asynchronous switching of computer signal and audio signal. RGB series matrix switchers use high-performance professional matrix processing chips, built-in buffers, working with ultra broadband gain compensation technology and synchronization signal correction technology to make the image output more stable, clear and without ghosting. RGB series matrix switchers can stand by for 24 hours and can support the power-off memory protection function. With RS232 serial communication port, it can be used with various remote control devices of the computer. RGB series matrix switchers are rich in models, ranging from RGB8 series to 32X32, to meet the different needs of users, and are widely used in multimedia conference rooms, TV studios, command centers and other occasions.

### Feature:

- \* Support 8/16 audio and video signal inputs, 2/4/8/16 audio and video signal outputs.
- \* The video broadband height is 450MHz (-3dB) full load.
- \* Provide multiple preset saving options, with power-off memory protection function.
- \* The LCD displays the switching operation status in real time, and with the panel operation keyboard, the current input/output channel connection status can be queried.
- \* Support RS232 communication function.
- \* Support quick switching operations, making the operation easier and faster.
- \* Independent RGBHV component and audio balanced/unbalanced input and output terminals.
- \* Support video signal types: RGBHV, RGBS, RGsB, RsGsBs, HDTV, component video, S-video, composite video (signal).
- \* The video signal input and output ports adopt BNC ports, and the audio signal end adopts 5-bit 3.8mm bolted screw ports.
- \* The volume of each audio output channel can be adjusted independently.
- \* Support audio signal types: stereo, balanced or unbalanced connection.
- \* Use programmable logic display circuit, arbitrary interactive switching.
- \* Support distortion compensation technology for long-distance signal transmission.
- \* Built-in international general power supply module.

### Specification:

<b>Composite video signal</b>	
Video bandwidth	450MHz(-3dB) full load
Input signal	RGBHV, RGBS, RGsB, RsGsBs
Input port	BNC female connector
RGB input level	0.5Vp-p ~ 2.0Vp-p
RGB input impedance	75Ω
HV input level	0.5V ~ 5.0Vp-p
HV input impedance	75Ω
Output signal	RGBHV, RGBS, RGsB, RsGsBs
Output port	BNC female connector
RGB output level	0.7Vp-p ~ 2.0Vp-p
RGB output impedance	75Ω
HV output level	0.5V ~ 5.0Vp-p
HV output impedance	75Ω
Return loss	<-30dB@5MHz
Horizontal frequency response	15kHz ~ 145kHz
Vertical frequency response	30 Hz ~ 170 Hz
<b>Analog audio signal</b>	
Audio bandwidth	150MHz(-3dB) full load
Input signal	Stereo (balanced or unbalanced) signal
Input port	5-bit 3.8mm Phoenix socket
Maximum input level	+19.5dBu
Input impedance	> 10KΩ
Output signal	Stereo (balanced or unbalanced) signal
Output port	5-bit 3.8mm Phoenix socket
Maximum output level	+21dBu
Output impedance	>50Ω
Frequency response	20Hz-20KHz, +0.05dB
SNR	>90dB
Stereo channel isolation	>80dB @ 1kHz
CMRR	>75dB @ 20Hz~20kHz
<b>Device specification</b>	
Maximum transmission delay	5nS (±1nS)
Switching delay	200nS (maximum)
MTBF	50000 hours
Working temperature	-20~45°C
Ambient humidity	20%~80% relative humidity, no condensation
Input power	~100-240V 50-60Hz
Dimension	7U height, 484×304×311mm (L×W×H)