

RS III Series RGBHV Matrix Routing Switcher



The Knox Video Technologies RSIII RGBHV Series matrix switchers are designed to route RGBHV video signals and balanced or unbalanced stereo audio signals. Available in matrix sizes from 4x8 to 12x8, the series features 300 MHz bandwidth and can be used to route RGBS, RGsB, HDTV, component video, S-video and composite video signals. The series also features Knox's exclusive volume and tone attenuation on the

matrix outputs. Audio inputs and outputs can be custom configured for balanced or unbalanced devices.

In addition to traditional RGBHV analog video and audio outputs, the series offers optional integrated CAT5 transmitters to distribute signals long distances on low cost twisted pair cable. Providing integrated CAT5 transmitters also alleviates cable management issues within the rack while reducing the potential for bad BNC terminations.

- *Integrated CAT5 Transmitters*
- *Volume and Tone Attenuation*
- *Custom Configurable Audio I/O*
- *High Bandwidth for QXGA Resolution*

Specifications

Video Channels:

RGBHV, RGB/RGB: - up to QXGA
 HD up to 1080p, SD NTSC, PAL, SECAM
 Levels: 1V p-p
 Frequency Response: DC to 300MHz
 Input Impedance: 75 Ohms
 Output Impedance: 75 Ohms
 Crosstalk: less than -70dB@5MHz
 Connectors: 75 Ohm female BNC
 Optional RJ-45 female (CAT 5/6/nano-skew cable)
 Maximum DC Input: +/-0.5V

General:

Operating Temp.: 32F to 113F (0C to 45C)
 Humidity: 10% to 90% non-condensing
 MTBF: 20,000 hours
 Shipping Weight: 10 pounds
 Compliance: FCC Class A, CE, RoHS
 Power: 1.0A, 50 watts, 171 BTU/hr.
 Input Voltage: 100-240VAC, 50-60 Hz
 Dimensions: 19" W x 5.25"H x 10"D, 3RU

Audio Channels:

Frequency Response:
 +/- 0.1db 22Hz-22kHz
 THD @ 1kHz:
 0dbu: 0.014%
 +20 dbu: 0.022%
 Max Input Level: +24 dbu
 Max Output Level: +24 dbu
 Gain: 0db (unity)
 Input Imp./Unbal.: 15K Ohms, DC coupled
 Input Imp./Bal.: 600 Ohms
 Output Imp./Unbal.: 500 Ohms, DC coupled
 Output Imp./Bal.: 600 Ohms
 Connectors: RCA, WECO

UTP Transmission:

Cable: CAT 5/5e/6/nano-skew
 Maximum Distance:
 CAT 5/5e/6: 450 feet
 Nano-skew: 1000 feet
 Connector: RJ45

