



KNOX VIDEO TECHNOLOGIES *Products*

Chameleon 64i

The **Chameleon 64i** modular audio/video routing switcher is expandable to a **64x64 matrix in a single 9U rackframe**.

- Expandable to 64x64
- 25 MHz video bandwidth
- Simple RS232 protocol
- Volume & Tone control option
- Front panel audio/video monitor option
- 5-year warranty

Applications:

- Residential
- Education
- Judicial/Correctional Systems
- Stadiums/Theme Parks
- Sports Bars/Restaurants



The **Chameleon 64i** modular audio/video routing switcher is expandable to a 64x64 matrix in a single 9U rackframe. Matrix configurations are assembled by inserting cards onto the backplane in the rackframe. Crosspoint arrays are assembled by increments of eight. These 25 MHz matrix routing switchers route NTSC or PAL video and mono or stereo unbalanced audio. Audio can follow video or can be routed separately.

In addition to routing audio, the optional Volume and Tone control (VT) package is available. The VT option allows full control of input and output levels, balance, and bass and treble for any audio signal directly from the **Chameleon 64i**. Set variable audio input levels in to the **64i** and control the output volume to each destination directly from the router. Tone adjustments can also be controlled for optimal audio quality.

Audio control features include input trim, variable audio output levels, loudness and mute. Output volume and balance controls allow for 1.25db incremental adjustments, or levels can be pre-set. Input trim adjustments provide control of every audio input signal, which can be individually trimmed in 1.25db increments to achieve input matching. Bass and treble control features offer full boost and cut capability. The loudness function, related to the [Fletcher Munson curves](#), may be toggled on and off. Audio fade-out is enabled through the timed fader. The timed-audio fade function offers a full-fade range of one-tenth of a second to 10

full seconds.

The VT features are controlled either via the front panel controller or through RS232. Optional Windows™ control software from Knox features a volume and tone control graphic user interface.

<i>Technical Specifications</i>		
Video		
	Frequency Response	+/- 0.5 dB to 20 MHz, -3dB at 30 MHz
	Maximum Input/Output Level	+/-1.4 Volts peak
	Crosstalk	less than -50 dB at 4 MHz
	Input Impedance	75 ohms, DC coupled
	Output Impedance	75 ohms, DC coupled
	DC Offset	less than +/-10 mV
	Gain	unity +/-0.2 dB
	Connectors	BNC
Unbalanced Audio		
	Frequency Response	+/- 0.25 dB 10Hz to 100 kHz at +3dBu
	Hum and Noise	(22Hz to 22kHz): less than -85 dBu
	Total Harmonic Distortion	(22Hz to 22kHz): less than 0.1% at +3dBu
	Intermodulation Distortion (SMPTE)	less than 0.3% at +3 dBu
	Maximum Input Level	+/-1.5 Volts peak (+3 dBu)
	Maximum Output Level	+/- 3.0 Volts peak (+9 dBu)
	Crosstalk	less than -85 dB at 1kHz, -60 dB at 20kHz
	Stereo Separation	less than -85 dB at 1 kHz, -60 dB at 20 kHz
	Input Impedance	100k ohms, DC coupled

	Output Impedance	500 ohms, DC coupled Gain (all controls flat): unity +/- 0.2 dB
	Connectors	RCA
◆ Audio Functions		
		<ul style="list-style-type: none"> • Output Volume • Input Trim • Bass Boost/Cut • Treble Boost/Cut • Left/Right Balance • Mute • Loudness • Timed Fader
◆ Power		
		nominal 115/230 VAC 50/60Hz, 150W Maximum supplying +/-8vdc nominal at 5A
◆ Dimensions		
		9U rackmount chassis with hinged front panel 15.75" high x 19" wide x 10" deep

Enhanced Image:

