

Chameleon 64i

**Unsurpassed
Audio Versatility
in an Expandable
Matrix Routing
Switcher**



Features

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

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 30 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.

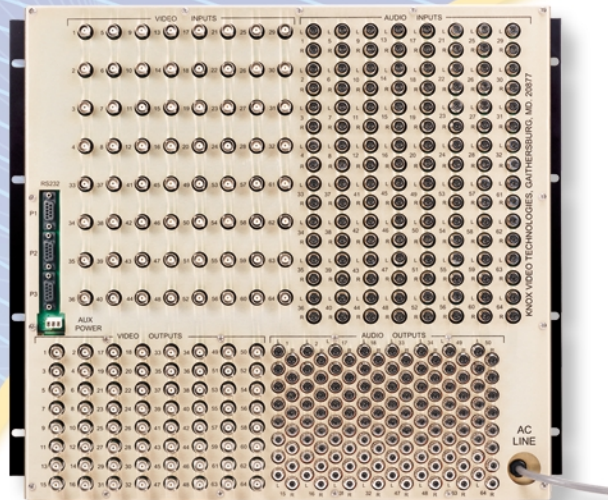
Audio control features include input trim, variable audio output levels and mute. Output volume and balance controls allow for 1.25db incremental adjustments, or levels can be pre-set. Input trim adjustments provide control of every audio input signal, which can be individually trimmed in 1.25db increments to achieve input matching. Bass and treble control features offer full boost and cut capability. 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.



**KNOX VIDEO
TECHNOLOGIES**

Chameleon 64i



Technical Specifications

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/Output Impedance 75 ohms, DC coupled
- DC Offset less than +/-10 mV
- Sync Range H up to 250kHz, V up to 250Hz
- Gain unity +/-0.2 dB
- Connectors BNC

AUDIO FUNCTIONS

- Output Volume
- Input Trim
- Bass Boost/Cut
- Treble Boost/Cut
- Left/Right Balance
- Mute
- Loudness
- Timed Fader

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

POWER

- 100-120 or 200-240 VAC, 47 to 63 Hz, 50 Watts maximum

DIMENSIONS

- 9U rackmount chassis with hinged front panel
15.75" high x 19" wide x 10" deep



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