



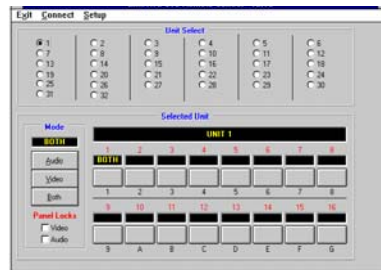
LINK ELECTRONICS, INC.

16 X 1 VIDEO SWITCHER WITH AUDIO FOLLOW MODEL AVS-816



FEATURES

- ◆ RS-232/RS-422
- ◆ 16 Video Inputs
- ◆ 16 Audio Inputs
- ◆ Vertical Interval
- ◆ Two Video Outputs
- ◆ Digital or Analog Video
- ◆ Digital or Analog Audio
- ◆ Controls Up to 32 Switchers
- ◆ Analog Monitor of Digital Audio Input



Computer Control Panel

FEATURES

- ◆ GPI Control
- ◆ Wide Bandwidth
- ◆ Digital Switching
- ◆ GV Protocol
- ◆ One Stereo Audio Output
- ◆ Audio & Video Break-away
- ◆ Individual I/O Audio Connection
- ◆ Windows™ Based Control Software
- ◆ Analog Monitor of Digital Video Input

The AVS-816 is a wide band-width video/audio vertical interval switcher designed for the video professional. It features compact modular design which allows it to handle video and audio in both the digital and analog domain. The unit has sixteen channels of video and stereo audio. Digital and analog switching modules for both video and audio may be mixed in any combination for complete system flexibility. The inputs are non-looping and offer outstanding return loss performance. For component digital applications, an analog monitoring output is available.

Audio and video break-away are selected by a single switch on the front panel. Dual LED's on the source selection and follow switch indicate follow or break-away. The AVS-816 allows the user to efficiently and economically route or delegate multiple video and audio signals.

The audio inputs use high-density terminal blocks which detach individually, allowing the user to pre-wire them before connecting to the switcher.

The digital audio I/O features full transformer isolation to eliminate the possibility of ground loop interference. Switching is accomplished during the vertical Interval by using the vertical sync derived from the video at the output stage. In a similar fashion, digital audio switching takes place during the audio sample preamble. Up to 32 switchers can be controlled by the computer software.

The AVS-816 may be controlled by a serial data feed of either RS-232 or RS-422/485 interface standards, selectable by a simple internal DIP switch. A remote control panel is also available which utilizes the common RJ-11 modular connector along with the RS-485 interface standard. For automated system applications, an optional GPI interface is available.

The serial communication protocol is compatible with existing Link video and audio switchers and remote control panels. For integration into existing systems, the AVS-816 can be preset to respond to that instruction set as well.

MODEL AVS-816 16 X I VIDEO/AUDIO SWITCHER RS-232/RS-422 CONTROLLED

SPECIFICATIONS

ANALOG VIDEO INPUTS:

Number: Sixteen (16)
Impedance: $75\Omega \pm 1\%$
Configuration: Single-ended
Level: $1\text{vpp} \pm 3\text{dB}$

Outputs:

Number: Two (2)
Level: Unity Gain $\pm 1\%$
Impedance: $75\Omega \pm 1\%$
Frequency Response: $\pm 0.5\text{dB}$ to 15MHz
..... 3dB to 30MHz
Differential Phase: $< 0.1^\circ$
Differential Gain: $< 0.1\%$
Tilt: $< 0.5\%$
S/N Ratio: $> 70\text{dB}$

Propagation Delay: $161\text{nS} \pm 0.2\text{nS}$
Crosstalk: $> 6\text{OdB}$, Worst Case

DIGITAL VIDEO INPUTS:

Standard: Component 270MB/s
Number: Sixteen (16)
Impedance: 75Ω , 1%
Configuration: ... Single-Ended, AC Coupled
Return Loss: $> 18\text{dB}$

Outputs:

Number: One, Digital
..... One, Analog for Monitoring
Level: $800\text{mV} \pm 10\%$
Impedance: 75Ω , $\pm 1\%$
Return Loss: $> 18\text{dB}$
Rise/Fall Time: $1\text{ns} \pm 250\text{ps}$
Overshoot: $< 10\%$ of Amplitude
Equalization: Automatic up to $> 30\text{dB}$
Propagation Delay: 10ns
Input Cable Length, Max 250m

ENVIRONMENTAL:

Temperature: 0° to 50° , ambient
Humidity: 0% to 90% non-condensing

POWER:

Input: 120/240 VAC $\pm 10\%$ 50/60 Hz
Power: 8 VAR

ANALOG AUDIO INPUTS:

Number: 16 Stereo
Impedance: $20\text{K}\Omega$, bridging
Configuration: Balanced Diff.
Max. Level: $+24\text{dBu}$

Outputs:

Number: One, stereo 3 pin conn.
Level: $+24\text{dBu}$ Max.
Impedance: 66Ω , $\pm 5\%$
Freq. Resp.: $\pm 0.02\text{dB}$, 20 to 20KHz
Insertion Gain: $\pm 0.05\text{dB}$
Slew Rate: $> 30\text{V}/\mu\text{S}$ Balanced
S/N Ratio: $> 100\text{dB}$ A WTD $+8\text{dBu}$
THD: $< 0.004\%$ @ 20KHz
Crosstalk: 95dB @ 20KHz
Output DC Offset: $< 10\text{mV}$
CMR: $> 80\text{dB}$ @ 60 Hz
Output Isolation: $> 100\text{dB}$ @ 20KHz

DIGITAL AUDIO INPUTS:

Number: 16
Interface: AES3-1992
Connector: 3 Pin Term. Plug-in
Format Bi-Phase Mark Encoded
Impedance: $110\Omega \pm 1\%$
Coupling: Transformer
Level: 4.2Vpp Typical
Sample Freq. Range: 30 KHz to 50 KHz

Outputs:

Number: One, Digital on BNC
..... One, Analog for Monitoring, 3 pin connector
Interface: AES3-1992
Connectors: 3 Pin Plug-in Term Block
Format: Bi-Phase Mark Encoded
Impedance: $110\Omega \pm 1\%$
Coupling: Transformer
Level: 4.2Vp-p Typical

MECHANICAL:

Size:
Height: 1.75"
Width: 19"
Depth: 8.7" deep
Weight: 6.8 lbs.



PROFESSIONAL SERIES--

stand-alone system products--by **LINK**

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