

AUDIO FOLLOW VIDEO QXGA COMPUTER SWITCHER MODEL—PC4100(AFV)



Innovators in Audio
Video Integrations

Creative Electronics
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We also Manufacture:

1. Audio Follow Video QXGA PC Switcher (RS232 Controlled)
2. RGB to YUV Converter
3. VGA Dist. Amp. (1 input 2 output)
4. VGA Interface
5. VGA Dist. Amp. (1 input 4 output)
6. 4 Way PC Dist. Amp. with Stereo LR Audio
7. VGA Dist. Amp. (1 input 2 output)
8. Feed Back Logic Controller
9. Audio Video Dist. Amp. (1input 4 output)
10. Audio Video Dist. Amp. (1input 2 output)
11. Projection Screen Interface Model SI—2002 (With Rack Power)
12. Dual Function Screen Interface (For Projector Lift / Screen Drapes)
13. Screen Interface for Screen and Switching 3 A V Devices.



Creative introduces a high performance 4x1 audio follow video switcher for computer graphic video signals up to QXGA resolutions. The PC4100AFV allows multiple computers to be switched to one display and audio monitor. The PC4100AFV is compatible with RGB video levels and IHF level unbalanced stereo audio sources.

The PC4100AFV can be controlled via front panel momentary pushbuttons or remotely using AMX / Crestron compatible commands via the RS-232 serial port. The PC4100AFV also includes a sequence generator with a variable rate control. Using sequence allows the switcher to switch between the inputs sources at a preset rate. There is also a "Skip Mode" available so that when the switcher is in the sequence mode it will automatically skip inputs missing sync. When the PC4100AFV is in the sequence mode the audio sources are muted.

3 modes available for VGA Switch

- Manual mode, client selects the video by push button
- Sequence mode, unit sequentially switches to each input whether there is input or not.
- Sequence with Skip, unit sequentially switches to each input if it is there (skips the missing ones)

The potentiometer on Front Panel adjusts the sequence speed. This potentiometer allows speed changes from fast to up to about 15 second between switching. PC4100AFV also scan to first input available and stop.

Signal Compatibilities

PC4100AFV is compatible with any PC/Laptop/Work Station supporting up to QXGA Resolution and line output level stereo audio.

PC4100AFV can work with any sync levels and any sync polarity. The output sync will be of proper level and polarity regardless of input sync levels or polarity. Auto detection of sync presence is also provided for output connectivity.

High Resolution Cross Point

PC4100AFV uses very-high-bandwidth (350Mhz) RGB cross points to Provide transparent image clarity at virtually any resolution.

Advanced Features

- Auto Sequencing
- Auto Sync Detection (this will detect Sync on Out Put Stage)
- RS232 Compatibility
- Swap Feature (Adjustable Time Speeds)
- Audio Muting in Swap Mode
- Audio Level Control
- LED indication for active source

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Technical Specifications

Video

Gain	Unity
Bandwidth	350 MHz (-3dB)
Cross talk	-70dB @ 10MHz

Video Input

Number / Signal Type	4 / RGB (computer video)
Connectors	4 female 15-pin HD
Impedance	75 ohms
Horizontal Frequency	15 kHz to 145 kHz
Vertical Frequency	30 Hz to 170 Hz

Video Output

Number / Signal Type	1 / RGB
Connectors	1 female 15-pin HD
Nominal Level	0.7 Vp-p for RGB
Impedance	75 ohms

Sync

Signal Compatibility	RGBHV
Input Level	1V to 5 Vp-p
Output Level	TTL
Input Impedance	220 ohms
Output Impedance	47 ohms
Output Sync Polarity	Follows input

Control / Remote

Serial Control Port Type	RS-232
Baud Rate / Protocol	2400, 9600, or 19.3K baud / 8N1
Serial Control Pinout	1 – Tx, - GND, 3 – Rx
Connector Type	3.5 mm Terminal Block

Audio

Front Panel Gain Range	+/- 6dB
Frequency Response	DC to 30 kHz, ± 0.05 dB
THD + Noise	0.01% @ 1 kHz at nominal level
Cross talk	-50 dB @ 20 kHz, -80 dB @ 1 kHz
Channel Separation	>80 dB @ DC to 20 kHz

Audio Input

Number / Signal Type	4 / IHF stereo unbalanced
Connectors	(4) 3.5 mm Terminal Block, screw connectors
Impedance	47K ohms unbalanced, DC coupled
Nominal Level	-10 dBv (0.3V)

Audio Output

Number / Signal Type	1 / IHF unbalanced
Connectors	(1) 3.5 mm Terminal Block screw connector
Impedance	50 ohms unbalanced
Gain Error	± 0.1 dB channel to channel
Nominal Level	-10 dBv (0.3V)

General

Power	220v AC @ 50-60Hz
Sequence Rate	0.1 – 15sec (continuously variable)
Rack Mount Optional	Rack Mount Kit for 19" Rack
Cabinet Type	Metal
Enclosure Dimensions	Ht. - 3", W - 9.5" , D - 7"
Product Weight	
Shipping Weight	
Warranty	1 year with parts and labor