AVM-3000, AVM-3100

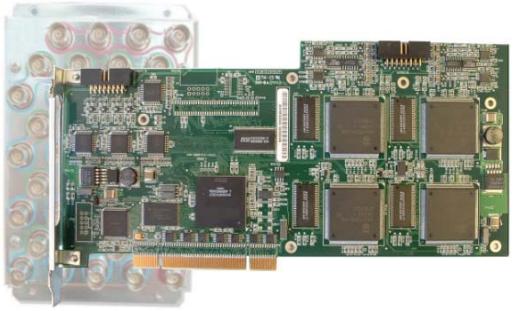
MPEG Audio and Video Module

INCORPORATED
Sophisticated Security and Surveillance Systems

Features

- ✓ MPEG2 video compression and MPEG 1 Layer 2 audio compression
- ✓ 30 Frames/sec NTSC per video channel
- ✓ 120 Frames/sec NTSC across the module
- ✓ 4 Independent video and audio channels
- ✓ Selectable compression ratios
- ✓ Adjustable frame rate – it is possible to specify different recording frame rates for different cameras on the same module
- ✓ Synchronized audio-video recording on each input channel
- ✓ Selectable optimized configurations for PTZ camera, low motion or high motion environments
- ✓ Audio channels have software selectable gain control
- ✓ 4 independent video and audio channels
- ✓ No need for camera synchronization at installation

AVM-3000 with 4 BNC inputs



AVM-3100 (single header connection, and no BNC connectors), for use with rear-panel connector unit

Description

The AVM-3000/3100 has four video inputs with each input processing the incoming stream using MPEG2 video compression and MPEG 1 Layer 2 256 Kb/second audio compression.

Each composite video input utilizes 75 Ohm BNC connectors. The BNC connectors are incorporated in the AVM-3000 module. The AVM-3100 uses the BNC connectors on the rear-panel connector unit, to which it attaches by means of a single header.

The AVM-3000/3100 module enables recording at 30 frames per second (fps) (frame = 2 fields) per camera input channel. This produces a total of 120 fps per module (30 frames per channel x four channels), irrespective of camera synchronization. Replay display rate is at the same 30 frames per second per camera.

It is possible to specify recording frame rates of 1, 2, 3, 7, 15, and 30 fps per camera. Software setup includes selectable optimized configurations for PTZ camera, low motion or high motion environments.

Each camera input has a dedicated audio input that is synchronized with video recording (for audio functions, install an AJA-1000 Audio Jack Assembly).

MPEG2 bandwidth throttling: If resource usage on the PCI bus (network activity, hard drive activity, etc.) becomes too great, the system will progressively throttle first the Y8 channel and then the RGB channel.

NOTE:
It is possible to mix-and-match DSS video modules as follows:

- ✓ VOM-1000/2000, AVM-3000 modules in a DSS ***without*** a rear-panel connector unit.
- ✓ VOM-1400/1500/2100, AVM-3100 modules in a DSS ***with*** a rear-panel connector unit (BNC-1500, VMX-1000/1100/1200).
- ✓ A single VOM-1000/2000, AVM-3000 module can utilize the spare slot to the side of a connector unit.

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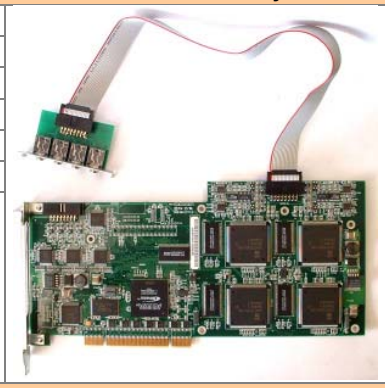
Model		
AVM-3000	MPEG Audio and Video Module with BNC connectors	
AVM-3100	MPEG Audio and Video Module no BNC connectors (see note below)	
Note: The AVM-3100 is only used in conjunction with one of these rear-panel connector units		
BNC-1500	BNC Patch Panel	The AVM-3100 uses the BNC connectors on one of these rear-panel connector units
VMX-1000	Cross Point Switch	
VMX-1100	Active Loop Through	
VMX-1200	Cross Point Switch	

Specifications

Video		Recording, Live Viewing, and Playback	
General	Independent video processing channel per AVM-3000/3100, synchronized with audio for recording	Recording Rate	At 720 x 576 pixels (full frame/4 CIF/2 fields interlaced) 30 frames per second NTSC
Video Standard	EIA/NTSC		At 352 x 288 pixels (CIF/1 field non-interlaced) 30 frames per second NTSC
Compression	MPEG 2 selectable compression ratios from system setup	Live Viewing Rate (RGB)	At 720 x 288 (2 field / 4 CIF) Per camera up to 30 frames per second NTSC (channel usage dependant)
Video Inputs (cameras)	4 inputs per AVM-3000/3100		
Bite Rate Options	Variable Bit Rate (VBR) Quality is kept constant, the rate is allowed to change		At 360 x 288 (1 field / CIF) Per camera up to 30 frames per second NTSC (channel usage dependant)
	Constant Bit Rate (CBR) Quality is sacrificed, rate is kept constant		
Bit Range	500 kb/s to 8 mb/s	Playback Rate	Playback is not card related, it depends on the system processing speed at the time of playback.

Audio	**Note**: Audio functionality requires installation of an **AJA-1000 Audio Jack Assembly**		
General	Dedicated audio processing channel per camera input.		AVM-3x00 with optional AJA-1000
	Audio channel synchronized with video for recording.		
	Audio channels have software selectable gain control.		
Input Voltage	2V RMS		
Compression	MPEG 1 Layer 2 (256 KB/sec)		
Audio Inputs	4 stereo inputs per AVM-3000/3100		

General	
Approvals	Requirements of EMC directive 89/336/EEC: SABS CISPR22:1997 | SABS CISPR24:1997 | IEC 61000-4-2 | IEC 61000-4-3 | IEC 61000-4-4 | IEC 61000-4-5 | IEC 61000-4-6 | IEC 61000-4-11 | IEC 61000-3-2 | IEC 61000-3-3