

VMAtm Family

Stand-Alone MPEG Encoder

Compact and flexible compression modules for developers

VMATM is a stand-alone video compression solution.

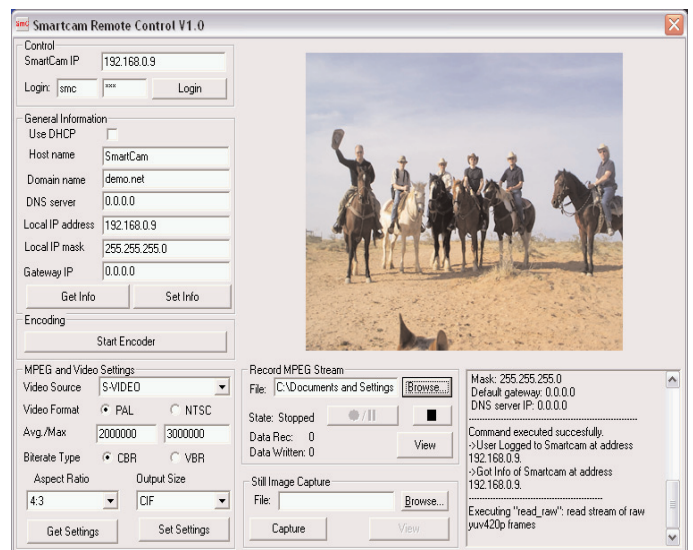
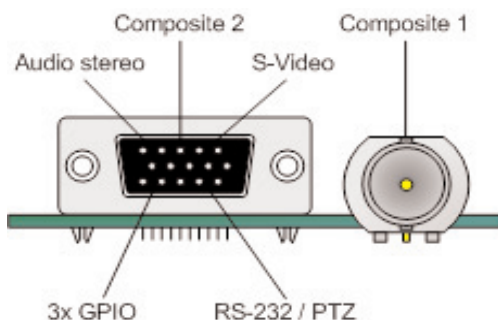
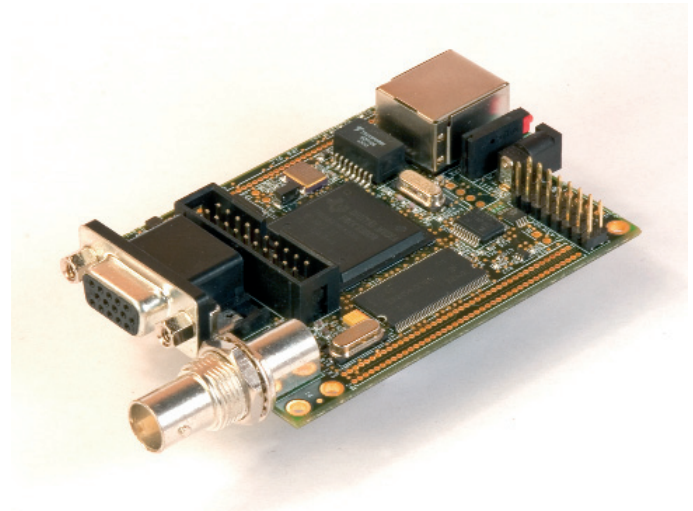
VMATM is the ideal solution when mobility is a key word.

VMATM is a flexible and compact compression module for:

- Recording on a laptop,
- Video security,
- Digital video recorder over IP, ...

Key features

- Compact size: 80 x 60 mm (3.14" x 2.36"),
- VITEC's DSP based solutions are software upgradeable thus enabling Economic upgrade by offering continuous feature and performance enhancements without hardware replacement,
- Advanced features available like Pause / Resume, Still image Capture while encoding, ...
- Streaming over Network,
- OSD.



TECHNICAL SPECIFICATIONS

VMA boards		VMA-2100 MJPEG / MPEG-1 FD1, SIF	VMA-2300 MJPEG / MPEG-4-2-1 FD1, SIF
Inputs / Outputs	Video Formats	NTSC/PAL	NTSC/PAL
	Video Inputs	1 Y/C, 2 composite	1 Y/C, 2 composite
	Video Output	Ethernet (10 Base-T or 100 Base-TX)	Ethernet (10 Base-T or 100 Base-TX)
Video Encoding	MJPEG	FD1, HD1, SIF, QSIF	FD1, HD1, SIF, QSIF
	MPEG-1	SIF, QSIF	SIF, QSIF
	MPEG-2	-	FD1, HD1, SIF, QSIF
	MPEG-4	-	FD1, HD1, CIF, QCIF
	MPEG-4 Profile	-	SP
	Elementary streams MPEG-1	yes	yes
	Elementary streams MPEG-2	-	yes
	MUX in MPEG-2 PS	-	yes
	Elementary streams MPEG-4	-	yes
	MPEG-1 system	yes	yes
	MPEG-2 program	-	yes
	MPEG-4 system	-	yes
	Frame rate	29.97 (NTSC) 25 (PAL/SECAM)	29.97 (NTSC) 25 (PAL/SECAM)
	Bitrate MPEG-1	128 Kbit/s to 3 Mbit/s	128 Kbit/s to 3 Mbit/s
	Bitrate MPEG-2	-	100 Kbit/s to 10 Mbit/s
Bitrate MPEG-4	-	1 Mbit/s to 5 Mbit/s	
Bitrate regulation mode	CBR, VCR	CBR, VCR	
VBR with Average and Max settings	yes	yes	
GOP definition	Fixed definition	Fixed definition	
Audio Encoding	MPEG-1 Layer 2	yes	yes
	PCM	yes	yes
	AAC Low Complexity	-	yes
	Sample rate	48 KHz	48 KHz
	Bits per sample	16 bits	16 bits
	Bitrate MPEG-1 audio	64 to 384 Kbit/s	64 to 384 Kbit/s
	Bitrate AAC-LC	-	8 to Kbit/s 96 Kbit/s
Audio Mode	Stereo	Stereo	
Still image	Resolution	720x576 (PAL/S) 720x480 (NTSC)	720x576 (PAL/S) 720x480 (NTSC)
	Field or Frame (2 fields) Capture	yes	yes
Signal Calibration	Brightness, Contrast, Saturation, Hue Adjustments	yes	yes
	Audio Level Adjustment	yes	yes
Advanced Features	Still image capture while encoding	yes	yes
	Pause/Resume mode	yes	yes
	24/7 Very Long Encoding	yes	yes
	Audio Meter overlaid on preview	yes	yes
Other Features	Operating Systems (For the VMA remote control)	Windows XP, 2000	
	Development Kit	Demo application & Source code	
	Recommended Configuration	PIII - 1 GHz, 256 MB RAM	
	Size	80 x 60 mm (3.14" x 2.36")	
	Power	3.3 W	

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