

Vitec VM Family

Hybrid Encoders

Vitec VM2-2ex



Vitec VM4-2ex



Vitec VM Family

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TECHNICAL SPECIFICATIONS

2 Boards	VM2-2ex MPEG-2-1 FD1, SIF	VM4-2ex MPEG-4-2-1 FD1, SIF
VIDEO SPECIFICATIONS		
Inputs	4x Composite or 2x S-video	4x Composite or 2x S-video
Outputs	Composite, S-video, RGBs	Composite, S-video, RGBs
Compression		
MPEG-4	1 to 15 Mbit/s	64 Kbit/s to 6 Mbit/s
MPEG-2 (4:2:0)	128 Kbit/s to 3 Mbit/s	1 to 15 Mbit/s
MPEG-1		128 Kbit/s to 3 Mbit/s
MPEG-4 Compression		64 Kbit/s to 6 Mbit/s
ISMA Level 1		Yes
MPEG-4 profile		ASP / level 0-5 (1 object)
System stream		Yes
Bitrate regulation mode		CBR / VBR / CFR
MPEG-2 (4:2:0) Compression	1 to 15 Mbit/s	1 to 15 Mbit/s
Elementary streams	Yes	Yes
Mux	PS / TS	PS / TS
DVD, SVCD compliance	Yes	Yes
Bitrate regulation mode	CBR / VBR	CBR / VBR
MPEG-1 Compression	128 Kbit/s to 3 Mbit/s	128 Kbit/s to 3 Mbit/s
Elementary / System streams	Yes	Yes
VCD 2.0, XVCD compliance	Yes	Yes
Bitrate regulation mode	CBR / VBR	CBR / VBR
Aspect ratios	4/3 & 16/9	4/3 & 16/9
Preview on VGA	Yes	Yes
Frame rate	29.97 (NTSC) / 25 (PAL/SECAM)	29.97 (NTSC) / 25 (PAL/SECAM)
VBR with Average and Max settings	Yes	Yes
VBR with Fixed Quantizer	Yes	Yes
GOP definition	I, IP, IBP, IBBP, ...	I, IP, IBP, IBBP, ...
IBP distance setting, closed GOP	Yes	Yes
Scene Change Detection	Yes	Yes
DEVELOPERS RESSOURCES		
Operating systems	Windows 7 (32 & 64 bit) / XP / 2000 Linux Kernel 2.4 / 2.6 (RedHat, SuSE, ...)	Windows 7 (32 & 64 bit) / XP / 2000

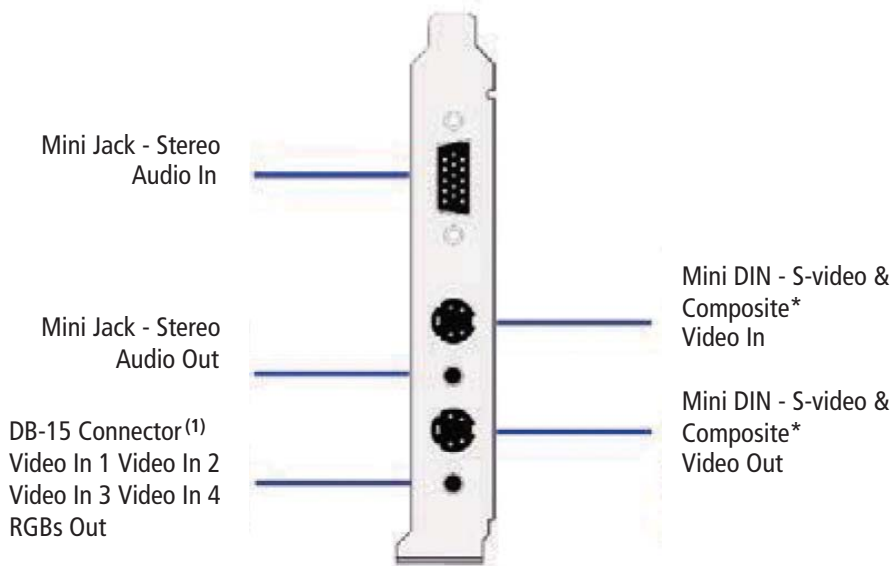


TECHNICAL SPECIFICATIONS

2 Boards	VM2-2ex MPEG-2-1 FD1, SIF	VM4-2ex MPEG-4-2-1 FD1, SIF
Development kits	LiveWire framework Demo appli. source code	LiveWire framework Demo appli. source code
SYSTEM CONFIGURATION		
Minimum configuration	P4 - 1.8 GHz 256 MB RAM	P4 - 3 GHz 256 MB RAM
PCI compliance	PCIe (1 lane)	PCIe (1 lane)
Dimensions of the board	120 x 96 mm (4.72" x 3.78")	120 x 96 mm (4.72" x 3.78")
Power consumption	3 W (PCI) / 4.8 W (PCIe)	3 W (PCI) / 4.8 W (PCIe)
AUDIO SPECIFICATIONS		
Inputs	1x Mini Jack Stereo	1x Mini Jack Stereo
Outputs	1x Mini Jack Stereo	1x Mini Jack Stereo
Formats	MPEG-1 Layer 2 AC-3, PCM	MPEG-1 Layer 2 AC-3, PCM AAC-LC
Encoding parameters		
Operating modes	Mono, Stereo, Dual Stereo, JointStereo	Mono, Stereo, Dual Stereo, JointStereo
MPEG-1 Layer 2 Bitrate	128 to 384 Kbit/s	128 to 384 Kbit/s
AC-3 Bitrate	96 to 648 Kbit/s	96 to 648 Kbit/s
AAC-LC Bitrate		96 to 384 Kbit/s (96 Kbit/s for CD quality)
Sampling Frequencies	32, 44.1, 48 KHz	32, 44.1, 48 KHz
Bits per sample	16 bits	16 bits
STILL IMAGE WHILE ENCODING		
Resolution	FD1 / SIF	FD1 / SIF
Field or Frame (2 fields) Capture	Yes	Yes
ADVANCED FEATURES		
Brightness, Contrast, Saturation, Hue adjustments	Yes	Yes
Audio level adjustment	Yes	Yes
Audiometer overlaid on preview	Yes	Yes
Status overlaid on preview	Yes	Yes

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2 Boards	VM2-2ex MPEG-2-1 FD1, SIF	VM4-2ex MPEG-4-2-1 FD1, SIF
Pause / Resume mode	Yes	Yes
Split mode (back to back files)	Yes	Yes
Skip frame mode (reduced frame rate & regular playback)	Yes	Yes
Drop frame mode (reduced frame rate & accelerated playback)	Yes	Yes
24/7 Very Long Encoding	Yes	Yes
Append (open a closed file and continue recording)	Yes	Yes
Rewind (open a closed file, seek overwrite and continue recording)	Yes	Yes
Multiboarding	Yes	Yes
On Screen Display (OSD)	Yes	Yes



*Available through Mini DIN adaptor.

⁽¹⁾ Up to 4 Composite Video (or 2 S-video) inputs can be handled through the DB-15 connector. Switching from one to the other is made by software.

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