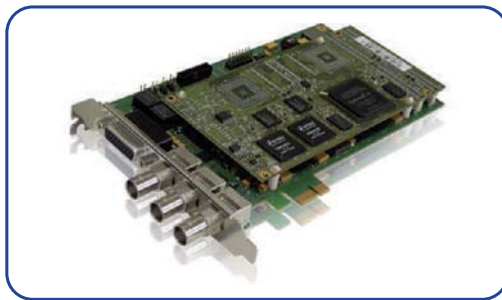


Vitec VMC Family

Advanced MPEG Encoders

Vitec VMC-7440



Vitec VMC-6240



Vitec VMC-5240



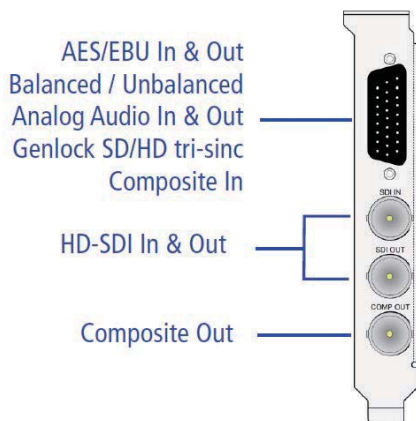
Vitec VMC Family

Advanced MPEG Encoders

TECHNICAL SPECIFICATIONS

3 Boards	VMC-7440 AVC/H.264 1080p, 1080i, 720p, FD1, SIF	VMC-6240 MPEG-2 SXGA, 720p, XGA	VMC-5240 MPEG-2 FD1, SIF
VIDEO SPECIFICATIONS			
Inputs	Composite, HD-SDI, SDI	DVI-A, DVI-D	YUV, S-video, Composite, SDI
Outputs	Composite, HD-SDI, SDI	DVI-A, DVI-D	Composite
Compression	(HD&SD) H.264 (4:2:0)	HD MPEG-2 (4:2:0)	MPEG-2 (4:2:0)
AUDIO SPECIFICATIONS			
Inputs	Analog balanced & unbalanced stereo, AES-EBU, embedded SDI	Analog unbalanced stereo	Analog balanced & unbalanced stereo, AES-EBU, embedded SDI
Formats	MPEG-1 Layer 2 AC-3, PCM AAC-LC	MPEG-1 Layer 2	MPEG-1 Layer 2 AC-3, PCM
Number of channels (native encoding)	(Analog (2), AES-EBU (2), SDI embedded (16))	2	2
Encoding parameters			
Operating Mode	Stereo	Stereo	Mono, Stereo, Dual stereo
AAC Bitrate	64 to 128 Kbit/s	128 to 384 Kbit/s	64 to 384 Kbit/s
MPEG-1 Layer 2 Bitrate	32 to 640 Kbit/s	128 to 384 Kbit/s	64 to 384 Kbit/s
AC-3 Bitrate	32 to 640 Kbit/s	128 to 384 Kbit/s	64 to 384 Kbit/s
Sampling frequency	48 Khz	48 Khz	48 Khz
Bits per sample	16 bits	16 bits	16 bits
SYSTEM CONFIGURATION			
Minimum configuration	P3 - 800 MHz, 512 MB RAM	P3 - 800 MHz, 512 MB RAM	P3 - 800 MHz, 512 MB RAM
PCI compliance	PCIe (1 lane)	PCIe (1 lane)	PCIe (1 lane)
Dimensions of the board	180 x 111.15 mm (7.08" x 4.37")	193 x 103 mm (7.59" x 4.05")	193 x 103 mm (7.59" x 4.05")
Power consumption	18 W	12 W	7.5 W

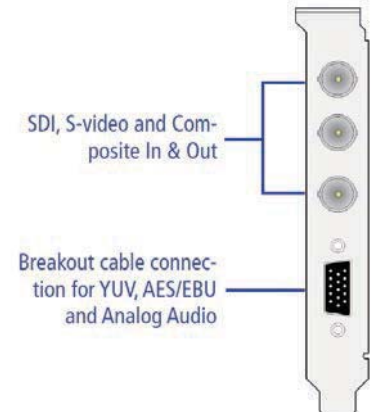
Vitec VMC-7440



Vitec VMC-6240



Vitec VMC-5240



3 Boards	VMC-7440 AVC/H.264 1080p, 1080i, 720p, FD1, SIF	VMC-6240 MPEG-2 SXGA, 720p, XGA	VMC-5240 MPEG-2 FD1, SIF
Compression	(HD & SD) H.264 (4:2:0)	HD MPEG-2 (4:2:0)	MPEG-2 (4:2:0)
Bitrate HD format	2 to 50 Mbit/s	17 to 30 Mbit/s	500 Kbit/s to 15 Mbit/s
Bitrate SD format	600 Kbit/s to 10 Mbit/s	CBR / VBR	CBR / VBR
Bitrate regulation mode	CBR / VBR	PS / TS	PS / TS
MUX	TS / MP4	Yes	Yes
Elementary stream	Yes		
Aspect ratios	4/3 & 16/9		4/3 & 16/9
Inputs	Composite HD-SDI, SDI	DVI-A, DVI-D	YUV, S-video, Composite, SDI
Outputs	Composite, HD-SDI, SDI	DVI-A, DVI-D	Composite
Preview on VGA	Yes	Yes	Yes
GOP definition	I, IP, IBP, IBBP, ...	I, IP	I, IP, IBP, IBBP, ...
Closed captioning	Yes		
IP distance setting	Yes		Yes
Ancillary data and VBI	Yes		
AVC profile	MP@L3 / HP@L4.1		
AVC Tools	Deblocking filter, CABAC, MBAFF, Multislices, Adaptive noise filter		
Scene change detection			Yes
VIDEO FORMAT SUPPORTED			
Format / Resolution	Frame Rate /s	Frame Rate /s	Frame Rate /s
1080p / 1920 x 1080	30, 29.97, 25, 24, 23.976		
1080i / 1920 x 1080	30, 29.97, 25, 24, 23.976		
1080i / 1440 x 1080	30, 29.97, 25, 24, 23.976		
720p / 1280 x 720	60, 59.94, 50, 30, 29.97, 25, 24, 23.976	30	
NTSC / 720 x 480	29.97		29.97
PAL / 720 x 576	25		25
NTSC / 720 x 480			29.97
PAL / 720 x 576			25
UXGA (downscale in SXGA)		30	
SXGA		30	
XGA		30	
STILL IMAGE WHILE ENCODING			
Resolution	Native resolution	Native resolution SXGA, 720p, XGA	720x576, 352x288 (PAL) 720x480, 352x240 (NTSC)
Special	Deinterlacing		Field or Frame (2 fields) Capture
ADVANCED FEATURES			
VITC	Yes		
Brightness, Contrast, Saturation, Hue adjustments	Yes	DVI-A	Yes
Audio level adjustment	Yes	Yes	Yes
Audiometer overlaid on preview	Yes	Yes	Yes
Status overlaid on preview	Yes	Yes	Yes
Pause / Resume mode	Yes	Yes	Yes
Multiboarding	Yes	Yes	Yes
Dual encoding (2 files from a unique video source)	Yes		
24/7 very long encoding	Yes	Yes	
DEVELOPERS RESSOURCES			
Operating Systems	Windows 7 / Vista / XP / Server 2003& 2008 (32 bit)	Windows 7 / Vista / XP / 2000 / Server 2003 (32 bit)	Windows 7 / Vista XP / 2000 (32 bit)
Development Kits	LiveWire framework Demo application source code	LiveWire framework Demo application source code	LiveWire framework Demo application source code

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