

Vitec VMC Family

Advanced MPEG Encoders

Vitec VMC-7440



Vitec VMC-6240



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TECHNICAL SPECIFICATIONS

2 Boards	VMC-7440 AVC/H.264 1080p, 1080i, 720p, FD1, SIF	VMC-6240 MPEG-2 SXGA, 720p, XGA
VIDEO SPECIFICATIONS		
Inputs	Composite, HD-SDI, SDI	DVI-A, DVI-D
Outputs	Composite, HD-SDI, SDI	DVI-A, DVI-D
Compression	(HD&SD) H.264 (4:2:0)	HD MPEG-2 (4:2:0)
AUDIO SPECIFICATIONS		
Inputs	Analog balanced & unbalanced stereo, AES-EBU, embedded SDI (16)	Analog unbalanced stereo
Formats	MPEG-1 Layer 2 AC-3, PCM AAC-LC	MPEG-1 Layer 2
Number of encoding channels	(Analog (2), AES-EBU (2), SDI embedded (2))	2
Encoding parameters		
Operating Mode	Stereo	Stereo
AAC Bitrate	64 to 128 Kbit/s	
MPEG-1 Layer 2 Bitrate	32 to 640 Kbit/s	128 to 384 Kbit/s
AC-3 Bitrate	32 to 640 Kbit/s	
Sampling frequency	48 Khz	48 Khz
Bits per sample	16 bits	16 bits
VIDEO FORMAT SUPPORTED		
Format / Resolution	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	
PAL / 720 x 576	25	
NTSC / 720 x 480		
PAL / 720 x 576		
UXGA (downscale in SXGA)		30
SXGA		30
XGA		30
STILL IMAGE WHILE ENCODING		
Resolution	Native resolution	Native resolution SXGA, 720p, XGA
Special	Deinterlacing	



2 Boards

VMC-7440
AVC/H.264
1080p, 1080i, 720p,
FD1, SIF

VMC-6240
MPEG-2
SXGA, 720p, XGA

ADVANCED FEATURES

VITC	Yes	
Brightness, Contrast, Saturation, Hue adjustments	Yes	DVI-A
Audio level adjustment	Yes	Yes
Audiometer overlaid on preview	Yes	Yes
Status overlaid on preview	Yes	Yes
Pause / Resume mode	Yes	Yes
Multiboarding	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)
Development Kits	LiveWire framework Demo application source code	LiveWire framework Demo application source code

SYSTEM CONFIGURATION

Minimum configuration	P3 - 800 MHz, 512 MB RAM	P3 - 800 MHz, 512 MB RAM
PCI compliance	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")
Power consumption	18 W	12 W
Compression	(HD & SD) H.264 (4:2:0)	HD MPEG-2 (4:2:0)
Bitrate HD format	2 to 50 Mbit/s	17 to 30 Mbit/s
Bitrate SD format	600 Kbit/s to 10 Mbit/s	CBR / VBR
Bitrate regulation mode	CBR / VBR	PS / TS
MUX	TS / MP4	Yes
Elementary stream	Yes	
Aspect ratios	4/3 & 16/9	
Inputs	Composite HD-SDI, SDI	DVI-A, DVI-D
Outputs	Composite, HD-SDI, SDI	DVI-A, DVI-D
Preview on VGA	Yes	Yes

2 Boards

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GOP definition	I, IP, IBP, IBBP, ...	I, IP
Closed captioning	Yes	
IP distance setting	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		

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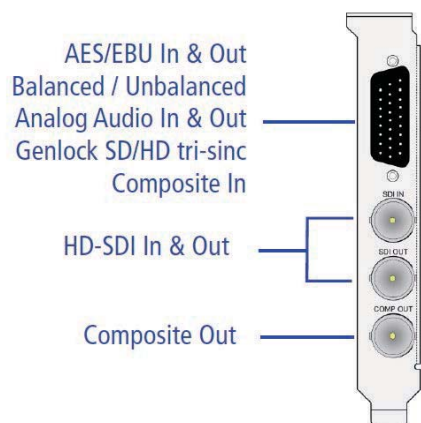
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