

VMC-7440™

A d v a n c e d A V C / H . 2 6 4 E n c o d e r

HD-SDI & SDI capture and compression board

H.264/AVC MPEG-2 Encoding

DESIGNED FOR DEVELOPERS

VMC-7440™ capture and compression board makes very high quality H.264 / AVC HD hardware encoding (low CPU consumption) a reality.

VMC-7440™ is provided with a powerful and easy to use SDK (Software Development Kit).

Designed for video broadcast applications, VMC-7440™ is ideally suited for TELCO IP-TV solutions.

APPLICATIONS

Designed for video broadcast applications, VMC-7440™ is ideally suited for advanced video integration like:

- Video ingest,
- Contents,
- IPTV,
- Broadcast applications,
- And much more...

Key benefits of the architecture:

• LiveWire architecture as SDK

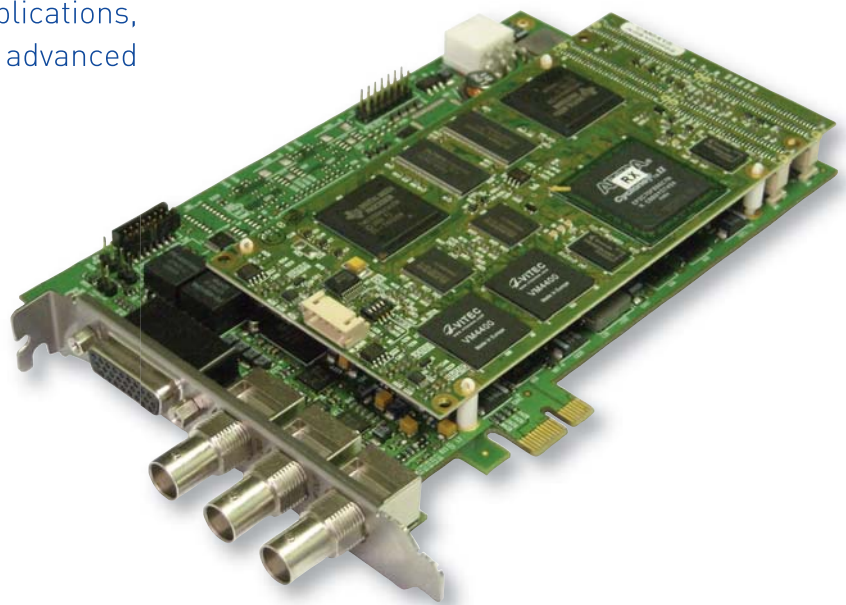
Compatible from one product to another (unified interface to all VITEC products).

True flexibility: freely customizable and evolutive configurations.

No hardware modification when implementing new features like transcoding...

• Cost Effective

Very powerful and easy-to-use software development tools (SDK), called LiveWire™, dramatically reduce the time-to-market when implementing a VITEC product.



TECHNICAL SPECIFICATIONS

Inputs / Outputs	Video Formats	PAL/NTSC/720p/1080i/1080p
	Video Inputs: Analog	-
	Video Inputs: Digital	HD-SDI, SDI
	Audio Inputs: Analog	Analog balanced and unbalanced stereo
	Audio Inputs: Digital	Digital Audio AES/EBU, embedded SDI
	Preview on VGA	yes

Video Encoding	MPEG-4 AVC/H.264 (HP@L4)	FD1, 1080p, 1080i, 720p
	MPEG-2 TS	yes
	Frame rate	30 (1080p) / 60 (1080i) / 30 (720p) / 29.97 (NTSC) / 25 (PAL)
	Bitrate MPEG-4	120 Kbit/s to 9 Mbit/s
	Bitrate MPEG-2	500 Kbit/s to 30 Mbit/s
	Bitrate regulation mode	CBR, VBR
	GOP definition	yes
	IBP distance settings	yes
	Scene change detection	yes

Audio Encoding	MPEG-1 Layer 2	yes
	AAC Low Complexity	yes
	PCM	yes
	AC-3 (2 channels)	yes
	Sample rate	32, 44.1, 48 KHz
	Bits per sample	16 bits
	Bitrate AC-3	64 to 384 Kbit/s
	Bitrate AAC-LC	64 to 384 Kbit/s
	Audio Mode	Mono, Stereo, Dual Stereo

Signal Calibration	Brightness, Contrast, Saturation, Hue Adjustments	yes
	Audio Level Adjustment	yes

Still Image	Resolution	up to 1920 x 1080
	Field or Frame (2 fields) Capture	yes

Developers Resources	Operating Systems	Vista / XP / 2000
	Development Kits	LiveWire framework Demo application source code

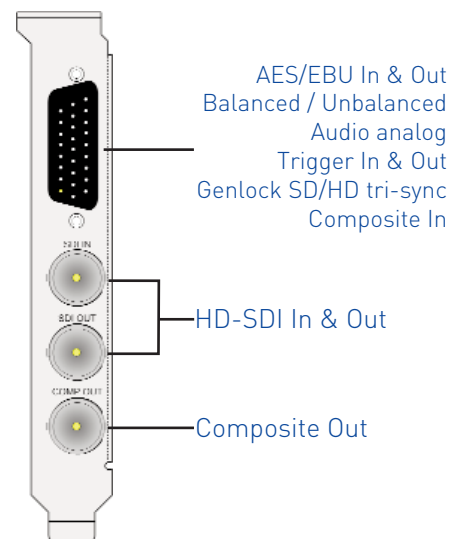
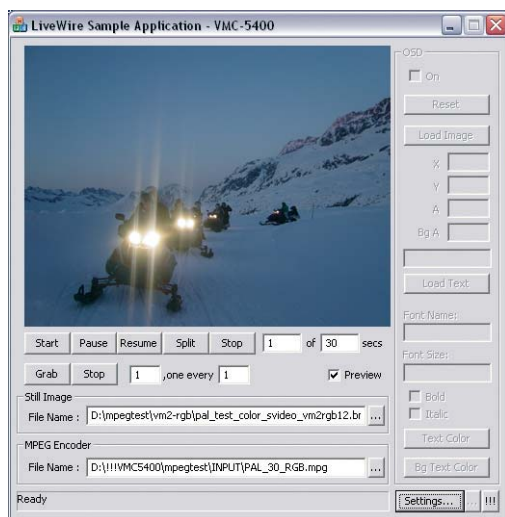
Advanced Features	Audio deembedding from SDI	yes
	Still image capture while encoding	yes
	Audiometer overlaid on preview	yes
	Status overlay on preview window	yes
	Pause/Resume mode	yes
	Split mode (back to back files)	yes
	Deblocking filter	yes
	CABAC	yes
	Adaptive noise filter	yes

Minimum Configuration	> P3 - 800 MHz, 512 MB RAM
Recommended Configuration	> P4 - 2 GHz, 512 MB RAM

PCI compliance	PCIe (1 lane)
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Dimensions of the board	200 x 107 mm (7.87" x 4.37")
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Power consumption	15 W
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Specifications subject to change without prior notice - March 2008