

VMC-7440™

HD-SDI compression board

HD H.264/AVC Real Time Encoding

DESIGNED FOR DEVELOPERS

VMC-7440™ compression board makes very high quality HD H.264 / AVC (up to 1080p) hardware encoding (low CPU consumption) a reality.

This PCIe (1 lane) hardware-based encoder supports high definition (HP@L4.1).

VMC-7440™ comes with a powerful and easy to use SDK (Software Development Kit), enabling a full control of the encoder through your application.

APPLICATIONS

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

- Video ingest,
 - Contents creation for video on demand (VOD),
 - IPTV,
 - Telcos,
 - Military applications,
- And much more...

KEY BENEFITS

• Video Input

HD-SDI input supports up to 3 GHz.

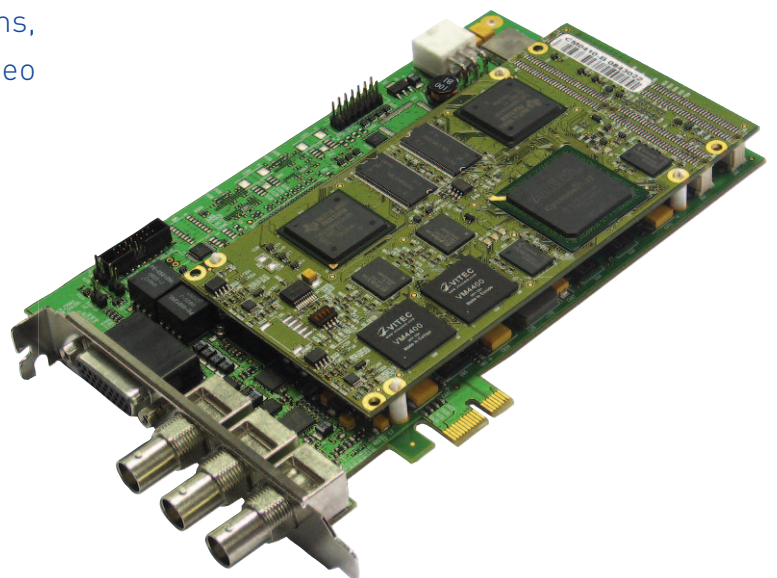
• Cost Effective

SDK Architecture allows to dramatically reduce the time-to-market.

• SDK: LiveWire™

True flexibility: freely customizable and evolutive configurations.

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



TECHNICAL SPECIFICATIONS

Inputs / Outputs	Video Formats	720p/1080i/1080p
	Video Inputs: Digital	HD-SDI (3 GHz)
	Audio Inputs: Digital	AES/EBU, Embedded SDI
	Video Outputs: Digital	HD-SDI (3Gb/s)
	Video Outputs: Analog	Composite
	Preview on VGA	yes

Video Encoding	MPEG-4 AVC/H.264 (HP@L4.1)	1080p, 1080i, 720p
	AVC profile	HP@L4.1
	MPEG-4 Mux	yes
	Frame rate	30, 29.97, 25, (1080p, 1080i, 720p) 24 (1080p, 720p) 60, 59.94, 50 (1080i, 720p)
	Bitrate MPEG-4	6 Mbit/s to 62.5 Mbit/s
	Bitrate regulation mode	VBR
	Scene change detection	yes

Audio Encoding	AAC Low Complexity	yes
	AC-3	Bypass
	Sample rate	32, 44.1, 48 KHz
	Bits per sample	16 bits
	Bitrate AAC-LC	64 to 384 Kbit/s
	Audio Mode	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
	Development Kits	LiveWire framework Demo application source code

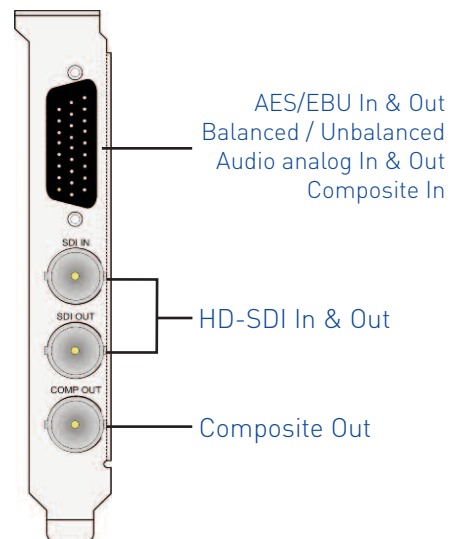
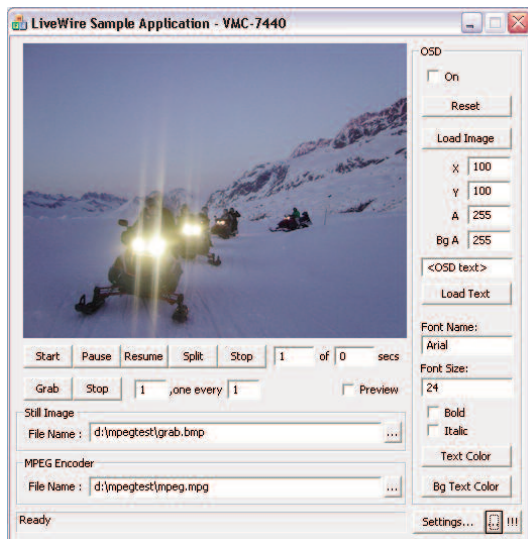
Advanced Features	Audio deembedding from SDI	yes
	Still image capture while encoding	yes
	Close captioning	yes (digital)
	VITC	yes (digital)
	Audiometer overlaid on preview	yes
	Status overlay on preview window	yes
	Deblocking filter	yes
	CABAC	yes
	Adaptive noise filter	yes
MBAFF	yes	

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	180 x 113 mm (7.08" x 4.45")
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Power consumption	18 W
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