

MPEG-4 Codecs





High Quality Video and Audio Over IP Networks

VBrick's MPEG-4 encoder/decoder is a versatile and reliable video appliance for one-way or two-way interactive communications over low or medium bandwidth IP networks. Available in a compact enclosure, the VBrick MPEG-4 encoder/decoder can be used for webcasting, multicasting, transcoding, and even two-way interactive video. This powerful, yet inexpensive product, can reach 1000's of people on your corporate network, VPN, or the Internet. It is ideal for distance learning, news distribution, event broadcast, product introductions, or video surveillance.

Product Features

- High quality video using low bandwidth
- Delivery of Unicast and Multicast streams
- Industry standard RTP/RTSP/RTCP compliant
- **ISMA-MPEG-4** to ensure vendor interoperability
- . Wide range of video resolutions and bit rates
- Designed for 30 fps high quality video
- · Constant or variable bit rate and frame rate
- Automatic channel guide
- Multi-level administration security
- Extensive automatic status and diagnostics
- Dual serial ports for control of cameras
- 100% remotely managed, configured, and maintained (SNMP, telenet, CLI)

Encoder Features

- Built-in video server can serve 200 simultaneous users via standard RTSP
- HTTP tunneling to help reduce firewall issues
- Closed captions for hearing impaired (Sec. 508)
- Stream metering to optimize bandwidth over WAN lines

Decoder Features

- Automatic On Screen display of available programs
- Picture-in-picture for two-way conferencing
- Dynamic image enhancement for best picture quality

Interoperability

- EtherneTV-MCS Media Control Server automatically recognizes encoded MPEG-4 streams and creates channel guide
- EtherneTV-STB Set Top Boxes decode MPEG-4 streams from low cost set top boxes
- EtherneTV-NXG Video on Demand Server capture MPEG-4 streams for future playback
- StreamPlayer and StreamPlayer Plus software decoding for desktop PCs
- SDK build custom applications

Applications

- Webcasting and News Distribution One way streaming for the delivery of corporate news, training, product anouncements or events
- Distance Learning Two-way Interactive always on conferencing using minimal bandwidth over IP networks
- Surveillance Monitoring remote or sensitive locations and process monitoring

Benefits and Advantages

- Low video transmission delay is ideal for twoway interactive applications
- High quality streaming at minimal bandwidth is ideal for IP based networks
- Robust and reliable appliance minimizes downtime and IT support
- Streaming video lowers costs by reducing travel time and maximizing productivity
- Portable network appliance design is simple to set up and use with quick start templates
- Multiple player interoperability (Windows, Real, QuickTime)*
- Automatic device discovery for simple management
- Audio only, video only or audio/video broadcasting

Models

- Single channel MPEG-4 encoder (9140-4200)
- Single channel MPEG-4 decoder (9140-5200)
- Dual channel MPEG-4 encoder (9140-4300)
- Dual channel MPEG-4 decoder (9140-5300)Dual channel MPEG-2/4 encoder (9130-4300)
- Dual channel MPEG-2 decoder/MPEG-4 encoder for transcoding (9130-6200)
- MPEG-4 encoder/decoder (9140-6200)
- Dual channel MPEG-2/MPEG-4 decoder (9130-5300)

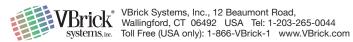




System Encoder/Decoder:

Video	MPEG-4 - ISO/IEC 14496-2:1999				
	Supports NTSC, PAL (PAL-M*)		Video		
	MPEG-4 Compliant Levels: Simple Profile		Resolution	NTSC	PAL
	Level 1 - up to 64 Kbps Level 2 - up to 128Kbps		SIF	352 x 240	N/A
	Level 3 - up to 384 Kbps		QSIF	176 x 128	N/A
	Video Rates: 1fps - 30 fps				
	Constant Bit Rate/ Constant Frame Rate Variable Bit Rate / Constant Frame Rate		CIF	N/A	352 x 288
	Constant Bit Rate / Variable Frame Rate User defined key frame interval		QCIF	N/A	176 x 144
	Rates: 8 Kbps - 2 Mbps		Custom	64 x48	64 x 48
	Inputs: Composite or S-Video				
Other	MPEG-4 - ISO/IEC	C 14496-3:1999	Custom 128 x 96 128 x 96		
	Low Complexity A	AC			128 x 96
	Sample Rates:	8Khz., 11.025Khz, 12Khz, 16Khz,		192 x 144	192 x 144
		22.5Khz, 24Khz, 32Khz, 44.1Khz, 48Khz	Custom		
	Sample Bit Rates:	8Kbps to 320Kbps with 2Kbps granularity	Custom	256 x 192	256 x 192
	Audio Modes:	Dual Stereo - 2 inputs/2 outputs			
		Mid/Side coded stereo	- Custom	352 x 240	320 x 240
		Mono1 - left input / left output			
		Mono2 - left input / left & right output		N/A	384 x 288
	Audio Inputs: Micro	Ouston	IV/A	304 X 200	
	Audio outputs 1/8" mini connectors **				
	Logo Display **				
	Deblocking, adaptive low pass, and deringing filters **				
Ethernet Network	10/100 Mbps Ethernet via RJ-45, Static or DHCP,				
	Auto sense Full/half duplex				
Protocols	Unicast/Multicast, DiffServ (QoS), UDP / IP / RTP / RTSP / RTCP / HTTP/SNMP/TELNET				
Maintenance Port	Serial port for local maintenance or data transport				
Control Port	Serial port for data transport				
IR Remote Control	IR Remote Control for local control and configuration				
Size	5.8 cm (2.3 inches) High 22.2 cm (8.75 inches) Wide 31.7 cm (12.5 inches) Deep				
Weight	Approx. 3.2 Kg (7 lbs)				
Temperature Range	0 degrees to +70 degrees Celsius, operating humidity up to 90% non-condensing*				
Power Supply	Input: 100 to 240 VAC, 50/60 Hz, approx. 55 Watts Output: +24V up to 3.0A				
Regulatory	FCC Part 15, UL, CE				

^{*}High temperature operation has some dependencies, please contact VBrick.



^{*} Available on encoder only

^{**} Available on decoder only