

MPEG-4 Encoder/Decoder

High Quality Video over IP Networks

Industry Leading Networked Video Appliances

Delivering MPEG formatted video and audio has never been easier. Whether it's corporate training, a new product launch, or a company wide executive address, VBrick's MPEG appliances enable video delivery with the broadcast quality of MPEG-2 to the bandwidth efficiency of MPEG-4 over your enterprise network or the internet.

Capabilities:

VBrick's MPEG Appliance is based on the award winning VB6000 platform and provides multiple capabilities in one portable and reliable appliance.

- **Encoding** – digitizing and compressing a video signal for delivery over an IP Network
- **Decoding** – receiving and decompressing a video stream from an IP Network with automated generation of on screen program display
- **Serving** – integrated video server provides up to 200 simultaneous streams via RTSP (MPEG-4 only)
- **Multicasting** – Multicast live video, or continuously pump a stored video (MPEG-2), directly from the appliance
- **Recording** – Record video that has been encoded or received over the network (MPEG-2, requires optional hard drive); recorded video may forwarded to Video on Demand servers for on demand playback
- **Two way collaboration** – inherent sub 250ms delay and built in video teleconferencing capabilities, including picture-in-picture, enable applications such as video telepresence
- **Format Flexibility** – VBrick MPEG appliances support NTSC and PAL video, 4:3 and 16:9 aspect ratios, a wide range of video resolutions, frame rates, and bit rates – including the ability to meter the output of the stream to fit the unique streaming requirements of any network
- **Remote Management** – Complete remote configuration and management solution via SNMP, or enable automated configuration download via periodic configuration polling

Benefits:

- Easy to configure and use – streaming in a matter of minutes
- Robust, reliable, appliance minimizes downtime and IT support requirements
- Automatic on-screen program display (decoder)
- Streams to publishing points via HTTP push, enabling firewall tunneling (MPEG-4)
- Format flexibility enables portability and adaptability to any network requirement

Product Datasheet



Compatibility:

- Multiplayer compatible – Windows Media® VBrick StreamPlayer, Real, Quicktime
- ISMA-MPEG-4 part 2
- IPv6 (MPEG-2 to StreamPlayer)
- IGMP v3
- SNMP v3

Interoperability:

- EtherneTV Suite – Portal Server, Scheduler, and Network Video Recorder
- EtherneTV IPR – low cost video decoding
- VBrick VOD-W MPEG Video On-Demand Server
- StreamPlayer software for desktop video decoding

Product Datasheet

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)

VIDEO ENCODER	
Format-Input	<ul style="list-style-type: none"> • MPEG-4 ISO /IEC 14496-2; 1999 (Simple Profile) • Analog: NTSC, PAL, PAL-M
NTSC/PAL-M Resolutions	• 64x48, 128x96, 176x128, (QSIF), 192x144, 256x192, 320x240, 352x240 (SIF)
PAL Resolutions	• 64x48, 128x96, 176x128, (QSIF), 192x144, 256x192, 320x240, 352x288 (CIF), 384x288
JPEG Image Capture	• Capture JPEG images every 1 to 600 seconds
COMPLIANT LEVELS	
Frame Rates	• Level 1 up to 64 Mbps, Level 2 up to 128 Mbps, Level 3 up to 384 Mbps, NTSC: 1 fps to 30 fps, PAL: 1 fps to 30 fps, PAL-M: 1 fps to 30 fps
Bit Rate/Frame Rate	• Constant/Constant, Variable/Constant, Constant/Variable
Rates	• 8 Kbps – 2 Mbps
Closed Captions	• Line 21 Passthrough, or User Inserted
Inputs	• Composite or S-Video
AUDIO ENCODER	
Audio Encoder	<ul style="list-style-type: none"> • MPEG-4 – ISO/IEC 14496-3; 1999, Low Complexity AAC • Sample Frequency: 8 kHz, 16kHz, 44.1kHz, 48kHz
Rates	• 8 Kbps to 320 Kbps with 2 Kbps granularity
Audio Modes	<ul style="list-style-type: none"> • Analog: Dual Stereo – 2 Inputs/2 Outputs, Mid/Side Coded Stereo, Mono1 – Left Input/Left Output, Mono2 – Left Input/Left and Right Output
Audio Inputs	<ul style="list-style-type: none"> • Unbalanced Input: Audio via Minijack • Balanced Input: Audio via Minijack, or Microphone DIN
VIDEO DECODER	
Format Output	<ul style="list-style-type: none"> • MPEG-4 – ISO/IEC 14496-3; 1999 (Simple Profile) • NTSC, PAL
Rates	• 8 Kbps – 2 Mbps
Outputs	• Composite, S-Video
AUDIO DECODER	
Mini-jack Outputs	<ul style="list-style-type: none"> • MPEG-4 – ISO/IEC 14496-3; 2001, Low Complexity AAC • Balanced or Unbalanced
Audio Decoder	• Sample Frequency: 8Khz, 11.025Khz, 12Khz, 16Khz, 22.5Khz, 24Khz, 32Khz, 44.1Khz, 48Khz
FEATURES AND SPECIFICATIONS	
Server	• Live Multicast: N/A Live Streaming: 200 Concurrent Live Streams, On-Demand: N/A
Ethernet	• 10/100 Mbps Ethernet via RJ-45, Static or DHCP, Auto Sense Full/Half Duplex
Routing	• None, Static, RIP, V1, V2 (listener only)
Streaming Protocols	• Unicast/Multicast, DiffServ (QOS), UDP, IP, RTP, RTSP, RTCP, HTTP
Management Protocols	• HTTP via Integrated Web Server, SNMP, Telnet, HTTP via SDK, Serial Port Command Line
Maintenance Port	• Serial port for local maintenance or data transport
Control Port	• RS 232/422/485 Serial Port for Data Transport
IR Remote Control	• IR Remote Control for Local Control and Configuration, Program Guide, Conference Guide, and Billboard
Dimensions	• Width: 8.75" (22.2cm), Height: 2.3" (5.8cm), Depth: 12.5" (31.7cm)
Weight	• Approximately 7 lbs (3.2 Kg)
Temperature Range	• 32° to 158° F (0° to 70° C), VBSTAR: 32° to 113° F (0° to 45° C), Operating Humidity up to 90% Non-Condensing
Power Supply Input	• 100 to 240 VAC, 50/60 Hz, Approximately 55 Watts
Power Supply Output	• +24V up to 3.0A
Regulatory	• FCC Part 15, UL, CE
Relay	• Dry Contact, 750ohms, 2A @ 30 VDC, 0.3A @ 110 VDC, 0.5A @ 125 VDC
LCD	• 32 Character Display (16x2), Backlit
LED Status	• Power In (24 VDC), Activity, Link, 10/100
SDK	• Allows third party developers and integrators to create custom applications and systems that incorporate video

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