



The next generation of VBrick's leading networked video appliances

Built on a completely redesigned architecture, the VBrick H.264 appliances represent VBrick's newest networked video appliances. Capable of supporting both standard definition and high definition video delivery, VBrick expands its market leadership by continuing to deliver on its heritage of providing Reliable, Flexible, Portable, Scalable, and Manageable networked video appliances.

These truly groundbreaking appliances allow organizations to deliver video in a wide range of quality - from 3G to HD - over any network infrastructure. The new H.264 appliances promise vastly improved quality for a given bit rate, allowing organizations to deliver an even better customer experience for any given bandwidth.



Models

Standard Definition

7000 Series Industrial strength appliance

8000 Series Enterprise-class appliance

High Definition ready

7000 HD Series High Definition ready Industrial strength appliance

8000 HD Series High Definition ready Enterprise-class appliance

Compatibility

- Windows Media® Player (via VBrick player plug-in)
- QuickTime Player (Windows and Mac)
- IGMP v3
- SNMP v3

Interoperability

- EtherneTV Suite – Portal Server, Scheduler, and Network Video Recorder
- VBrick VOD-W
MPEG and H.264 Video On-Demand Server

Capabilities

VBrick's H.264 appliances are the first in a line of products that will be delivered on VBrick's new architecture. These appliances provide the following capabilities:

High Definition Video – For the first time, the new appliances support high definition video resolutions, allowing for incredible quality video at bandwidths of 1 Mb/sec and up (requires HD version)

Standard Definition Video – For lower bandwidth applications, video can still be delivered in standard definition, with resolutions up to D1

Encoding – Digitizing and compressing a video signal for delivery over an IP network in the H.264 video format

Multicasting – Multicast a live video directly from the appliance

Serving – Serve live unicast streams via RTSP

Low Delay – VBrick's appliances can deliver video to PCs and Macs with sub-second delay

Front Panel Display and Management – For ease of configuration and quick parameter changes

Remote Management – Complete remote configuration and management via web-based interface, web services command line interface, or SNMP

Benefits

- High Definition video provides a more engaging user experience which increases viewership and retention
- Bandwidth flexibility allows the VBrick to stream video over virtually any network environment - including wireless and satellite networks
- Vastly improved quality for any given bit rate
- Unparalleled reliability - reduces administrative costs and increase usage and ROI
- Compact and Quiet
- End-to-End solution when combined with VBrick's EtherneTV solution
- Combines multiple capabilities into a single appliance
- Easy to configure and use – streaming in a matter of minutes
- Portable solution is ideal for webcasting special events
- Low delay allows for interactivity

Features and Specifications**Video Encoder (Standard Definition)**

- H.264 Encoding
- Format: NTSC, PAL
- 4:3 Aspect Ratio Resolutions: D1, SIF (NTSC), QSIF (NTSC), CIF (PAL), QCIF (PAL), 384x288 (PAL), 640x480, 320x240, 128x96, 192x144
- 16:9 Aspect Ratio Resolutions: 640x360, 512x288 (PAL), 256x144
- Video Frame Rates: 0.5, 1, 2, 3, 5, 6, 7.5, 10, 15, 30 fps (NTSC) 0.5, 1, 2.5, 5, 12.5, 25 (PAL)
- Constant Bit Rate / Constant Frame Rate
- User defined key frame interval
- Rates: 32 Kbps - 10 Mbps
- Inputs: Composite, S-Video, or SDI (SDI input only available on the High Definition models)

Video Encoder (High Definition)

- H.264 Encoding
- High Definition formats: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p
- 16:9 Aspect Ratio Resolutions: All standard definition resolutions listed above, plus 480i/p (720x480), 576i/p (720x576), 720p (1280 x 720)
- Video Frame Rates: 0.5, 1, 2, 3, 5, 6, 7.5, 10, 15, 30 fps (NTSC) 0.5, 1, 2.5, 5, 12.5, 25 (PAL)
- Constant Bit Rate / Constant Frame Rate
- User defined key frame interval
- Rates: 32 Kbps - 10 Mbps
- Inputs: HD-SDI, HDMI, and Component

Audio Encoder

- AAC-LC and AAC-HE Encoding
- Sample Frequency 8 Khz to 48 Khz
- Rates: 8 Kbps to 256 Kbps
- Audio Modes: Stereo, Mono
- Inputs: Unbalanced, balanced, and microphone via Minijack. Audio inputs can also come through the HDMI, HD-SDI, or SDI inputs

Push

- Multiple concurrent unicast and multicast destinations

Server

- Live multicast server
- Live streaming server - up to 100 concurrent live streams

Ethernet Network

- 10/100/1000 Mbps Ethernet via RJ-45, Static, or DHCP
- Auto sense Full / Half duplex
- 2nd 10/100/1000 Ethernet port on 8000 series models

Protocols

- Unicast / Multicast, DiffServ (QoS), UDP / IP / RTSP / RTP / HTTP

Maintenance/Control Port

- Serial port for local maintenance or data transport

USB Port

- 1 USB port

Dimensions

- W 7.75" x H 2.75" x D 8.75" (W 19.7 cm x H 7 cm x D 22.3 cm)

Weight

- Approximately 2 lbs 3 oz (1 Kg)

Temperature Range

- Operating: 0° to +70° Celsius

Power

- Input: 100 to 240 VAC, 50 / 60 Hz, 45 Watts, 12V DC, 4A

Regulatory

- FCC Part 15, UL, CE

LCD

- 80 Character display (20x4), backlit

LED Status

- Power In (12VDC)

