

VBrick H.264 Appliances

The Next Generation of VBrick's Leading Networked Video Appliances

Built on a completely redesigned architecture, 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.

Organizations can now 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 to deliver an even better customer experience for any given bandwidth.

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 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 (certain models)
- **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 increases usage, 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

Product Overview



Models

Standard Definition

7000 Series industrial strength appliances
7101 H industrial design, 1 RU high
7102 H enterprise design

High Definition ready

7000 HD Series High Definition ready industrial strength appliance
7101 H-HD industrial design, 1 RU high
7102 H-HD enterprise design

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

Product Overview



Video Encoder (Standard Definition)	<ul style="list-style-type: none"> H.264 Encoding Input 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)	<ul style="list-style-type: none"> H.264 Encoding High Definition input 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Live multicast server Live streaming server - up to 100 concurrent live streams
Ethernet Network	<ul style="list-style-type: none"> 10/100/1000 Mbps Ethernet via RJ-45, Static, or DHCP Auto sense Full / Half duplex
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 8.1" x H 3.1" x D 9.6" (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
LED Status	Power In (12VDC)
LCD	80 Character display (20x4), backlit

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