

Widening the Reach of Visual Communications

VBDesktop represents a true breakthrough in multimedia simplicity. Everything you need to begin streaming live, in minutes. Simply connect the camera (included), connect the VBrick Appliance to your network and start broadcasting, today.



Package **WM Appliance** – Multipurpose network video appliance that encodes, streams, and records Windows Media® video and audio formats

VBPresenter – PowerPoint® Add-In allows you to create and deliver fully synchronized slides, Q and A, audience polls, and web pages with the VBrick WM or MPEG-4 Appliance

Presentations can be recorded with a push of a button and then uploaded to a server for on-demand viewing.

Camera with Microphone – A ready-to-use camera that connects directly to your VBrick Appliance

Accessories – Cables, connectors, power supply, and quick start guide

Prepaid Hosting Service – A prepaid, time-limited hosting service to help get you on the air in minutes

WM Appliance Models

9190-4200 – Single channel WM Appliance (hard drive optional)

9190-4300 – Dual channel WM Appliance (hard drive optional)

VBCast System Requirements

- Windows® 2000 or XP
- Microsoft Powerpoint® 2000, 2002, or 2003
- Web server account (Microsoft® IIS or equivalent required for some features)

Applications **Corporate** – Ensure company alignment to goals by delivering live executive briefings to all employees

Education – Reach multiple classrooms simultaneously both on and off the campus

Government – Inform citizens by broadcasting town council meetings

Sports – Broadcast and share games live or on-demand

- Benefits**
- No monthly service cost – use existing infrastructure to share your presentations
 - Bandwidth efficient – unicast or multicast depending on the scope of your audience
 - Use PowerPoint and create rich media presentations
 - Instant feedback with live Q and A and audience polls
 - Automatic recording and archiving

Features and Specifications**Video Encoder**

- WM9 Encoding
- Format: NTSC, PAL
- 4:3 Aspect Ratio Resolutions: 640 x 480, 640 x 240, 320 x 480, 320 x 240, 240 x 180, 160 x 120
- 16:9 Aspect Ratio Resolutions: 640 x 360, 640 x 180, 384 x 216 (NTSC only), 512 x 288 (PAL only), 256 x 144, 128 x 72
- Video Frame Rates: 1, 7.5, 10, 15, 30 fps (NTSC) 1, 5, 10, 12.5, 25 (PAL)
- Constant Bit Rate/Constant Frame Rate
- Constant Bit Rate/Variable Frame Rate
- User defined key frame interval
- Rates: 20 Kbps - 4 Mbps
- Closed caption, Line 21 Passthrough, or user inserted
- Inputs: Composite or S-Video
- Multi Bit Rate (MBR) encoding – up to three profiles
- Metadata insertion and scripting

Audio Encoder

- WM8 Encoding
- Sample Frequency 8 Khz to 48 Khz
- Rates: 5 Kbps to 192 Kbps
- Audio Modes: Stereo, Mono 1 (L+R), Mono 2 (Left only)

Push

- Up to 25 concurrent HTTP pushes to VBrick Appliances or Windows Media® Servers

Server

- Live multicast server
- Live streaming server - up to 200 concurrent live streams
- On-demand server - up to 20 concurrent on demand streams

Ethernet Network

- 10/100 Mbps Ethernet via RJ-45, Static, or DHCP
- Auto sense Full/Half duplex

Reflector

- Receive a stream over the network and retransmit

Protocols

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

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

Dimensions

- W 8.75" x H 2.3" x D 12.5" (W 22.2 cm x H 5.8 cm x D 31.7 cm)

Weight

- Approx. 3.2 Kg (7 lbs)

Temperature Range

- Operating: 0° to +70° Celsius, operating humidity up to 90% non-condensing
- Non-operating: -10° to +70° Celsius

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

Relay

- Dry contact, 75mOhms, 2A @ 30VDC, 0.3A @ 110VDC, 0.5A @ 125VDC

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



VBrick's Network Video Appliances are renowned for their reliability, functionality, low delay, and ease of use. The VBrick WM Appliance can be used as a stand-alone video delivery device, or can be deployed as an integrated component of VBrick's award winning EtherneTV video delivery system. Additionally, the WM Appliance can be used in conjunction with VBrick's VBPresenter presentation software to provide an easy to deploy presentation system that synchronizes video from the WM Appliance with PowerPoint® slides and advanced features such as Q and A, polling, and guided web browsing.