

### Widening the Reach of Visual Communications

VBExpress is a fully contained version of VBDesktop. Everything is pre-installed in a hard, durable travel case, allowing you to broadcast from anywhere, at anytime, without having to unpack and set up. Simply open the case, connect the camera, power, and network connection, to begin webcasting.



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- Package**
- WM Appliance** – Multipurpose network video appliance that encodes, streams, and records Windows Media® video and audio formats
  - Camera w/Microphone and Tripod** – A ready-to-use camera that connects directly to your VBrick Appliance
  - Network Switch** – Quickly and easily connect to your network
  - 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
  - Durable Carrying Case** – Sturdy case with in-line wheels and retractable handle

### WM Appliance Models

**9190-4200** – Single channel WM Appliance (Hard Drive optional)

### VBCast System Requirements

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

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- Applications**
- Corporate** – Ensure alignment to company 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

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- Benefits**
- Fully contained webcasting solution
  - No monthly service cost – use existing infrastructure to share your presentations
  - Bandwidth efficient – unicast or multicast depending on the scope of your audience
  - Instant feedback with live Q and A and audience polls
  - Automatic recording and archiving
  - Stream quickly and easily – open the case, connect to the network and begin webcasting

**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

**Durable Carrying Case**

- Shock resistant, hard carrying case
- In-line wheels and retractable handle

**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 14" x H 22" x D 9" (W 35.6 cm x H 55.9 cm x D 22.9 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 includes advanced features such as Q and A, polling, and guided web browsing.