VBSTAR

RECORD AND STORE

STREAM AND TRANSFER

PLAYBACK

IP Address
172.16.5.42

Record, Transfer and Playback
DVD Quality Video
ANY Network, Anywhere, Anytime!

VBrick systems, inc.

VBSTAR Feature & Benefits

Features:

- Full Motion, high resolution MPEG-2, DVD quality video/audio
- Internal hard drive providing up to 20 hours of MPEG-2 storage
- NTSC and PAL format, Composite and S-Video inputs and outputs
- Video encoding rates from 1 to 10 Mbps
- IP Unicast or Multicast for streaming applications
- Integral web browser for data collaboration
- Integral web server for configuration and management
- On-screen recording and playback guide for use with remote control
- LCD panel for status and information
- Flexible design – up to 2 encoders or decoders plus a hard drive per VBSTAR
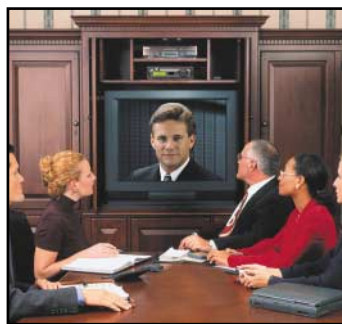
Benefits:

- **Reduce training costs** – deliver educational material directly to employees in DVD quality video and CD quality audio
- **Lower hardware costs** – eliminate the need for video camcorders and VCRs – keep original content in digital form and send it anywhere over the Internet
- **Enhance education** – store important lectures internally, and allow student direct access through their PCs
- **Improve corporate communications** – record and distribute company messages to all employees, – anywhere, anytime
- **Augment security systems** – record events directly to a hard disk for future viewing or transport
- **Increase the effectiveness of your advertising** – update and transfer messages anytime to video kiosks in malls, stores, and other points-of-purchase

Applications

Education:

In class or on a school intranet, VBSTAR receives and stores DVD-quality video, eliminating the need for videotapes, CDs, and disks. Lectures and other scholastic events are available for on-demand viewing on TVs and networked PCs.

Corporate:

Provide corporate messages, training, and technical information to remote offices to be viewed on TV monitors and desktops. DVD quality video improves corporate communications over any network, anytime.

Advertising:

Locate remote VBSTARs at retail outlets, trade shows, or other public locations. Record your content with VBSTAR and transfer the video to remote VBSTARs. Deliver timely advertising messages, maximizing sales and focusing customer mind share.

Security and Monitoring:

Record surveillance video to the VBSTAR from any camera and simultaneously watch it on TVs or PCs. Transfer the video to another VBSTAR over the Internet to view remote locations in full-motion and high resolution.

1. Record to internal disk

LIVE VIDEO
10AM

RECORD AND STORE

2. Transfer video file at any speed (even dial-up)

STREAM AND TRANSFER

Internet

PLAYBACK VIDEO 2PM

PLAYBACK

3. Receive and store video file
4. Playback content on TVs or PCs

- Record video events directly to the internal hard drive using a simple remote control. Transfer the stored video to a remote VBSTAR anywhere in the world, via any network. Video content can be simultaneously displayed on standard TVs, plasma displays, projectors, or an infinite number of PCs.

- Playback MPEG-2 video directly from the internal hard drive to TVs or stream to PCs.

- Select batch-record mode. Record a live conference, event, or training session; transfer the video to a remote VBSTAR for near real time playback.

- Record and playback video using built in scheduling feature.

- Transfer recorded video to VBVoD (VBrick Video-on-Demand Server) or any other server for on-demand access or editing.

Specifications

Video Encoder	MPEG-2 ISO/13818-1, -2, -3 Main Level, Main Profile/Simple Profile, 4:2:0, SP@ML and MP@ML Adjustable Intra picture and reference distance (GOP) NTSC 29.97 fps, 525 lines PAL 25 fps, 625 lines Video encoding 1 - 10 Mbps Inputs: Composite BNC, S-Video, SDI Closed Caption, Line 21 Passthrough Adjustable PID selection

Video Resolution	NTSC	PAL
Full D1	720 x 480	720 x 576
2/3 D1	480 x 480	480 x 576
1/2 D1	352 x 480	352 x 576
SIF	352 x 240	352 x 288

Audio Encoder	MPEG-1 Layer II ISO/13818-3 Stereo, 48K Sample Rate, 256K and 384K Data Rate Balanced or Unbalanced Inputs via mini-jack
Video Decoder	MPEG-2 ISO/13818-2 Main Level, Main Profile/Simple Profile, 4:2:0 and 4:2:2 NTSC 29.97 fps, 525 lines PAL 25 fps, 625 lines Up to 50 Mbps, auto-detecting Outputs: Composite BNC, S-Video Adjustable PID selection
Audio Decoder	MPEG-1 Layer II ISO/13818-3 MPEG-2 Layer I, Layer II Balanced or Unbalanced Outputs via mini-jacks
Ethernet Network	10/100 Mbps Ethernet via RJ-45, Static or DHCP Auto sense full/half duplex, UDP, Unicast/Multicast, Diffserv (QoS) Integral Routing – Static, RIP1, RIP2

ATM Network
    Interface - Fiber
 	
    ATM UNI
    PVC/SVC
	
	155M via LC connectors for multimode/single mode fiber (OC3c)
	Optional dual OC3 with VPI/VCI pass-through (switching)
	UNI 3.0/3.1, PVC, SVC (future), AAL5, IPOA
	User Configurable VPI = 0 to 256, VCI = 0 to 65,535
	Tx and Rx VC may be set independently

Maintenance Port	Serial port for local maintenance or data transport
Control Port	Serial port for data transport
Hard Drive	48 Gbyte Storage for Recording and Streaming
IR Remote Control	IR Remote Control for local control and configuration
Size	5.8 cm (2.3 inches) High 22.2 cm (8.75 inches) Wide 31.7 cm (12.5 inches) Deep
Weight	Approx. 3.2 Kg (7 lbs)
Temperature Range	0 degrees to +55 degrees 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, 75mΩ, 2A @ 30VDC, .3A @ 110VDC, .5A @ 125VDC
LCD	32 Character display (16x2), backlighting
LED Status	Power In (24VDC), Activity, Link, 10/100

Specifications subject to change without notice.

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