

VBXcast



Extending the Reach of Visual Communications

For the first time, organizations of any size are able to extend the reach of visual communications to anyone, anywhere, on any network using VBrick's VBXcast networked video appliances. VBXcast enables everyone to experience the benefits of live sight and sound while preserving the ease of use and reliability only an appliance can deliver. With a VBXcast appliance and standard viewing software, everyone with Internet access can experience high quality video at work, at school, or at home.

Applications

- **Distance learning** and training
- **Webcast live** events
- **News distribution** — CEO speeches, etc
- **Surveillance** of sensitive areas
- **Streaming** to PDAs and mobile devices

Product Features

- **Server** supports up to 120 viewing sessions
- **High quality video** using low bandwidth
- **Simultaneous delivery** of Unicast and Multicast streams
- **Industry standard** RTP/RTSP/RTCP compliant
- **ISMA-compliant MPEG-4** to ensure vendor interoperability
- Video **bit rates from 64 Kbps to 2 Mbps**
- **Wide range** of video resolutions
- **Designed for 30 fps** high quality video
- **Constant or variable bit rate** and frame rate
- **Automatic program guide**
- **Automatic streaming templates**
- **Automatic device discovery** for simple management
- **Multi-level administration** security
- **Extensive automatic status** and diagnostics
- **Multiple serial ports** for control of cameras or other devices
- **Balanced & unbalanced audio** with optional locking connectors plus microphone jack
- **100% remotely managed**, configured, and maintained
- **Fully SNMP manageable**

*May require plug-in

Benefits and Advantages

- **Lower costs** by reducing travel expenses and increasing productivity — train with high quality video
- **Keep employees informed** worldwide with regular company news broadcasts
- Make your organization **more secure**
- Network appliance design is **simple to set up and use**
- **Multiple player interoperability** (Windows, Real, QuickTime)*

Models

- Single channel MPEG-4 encoder (9140-4200)
- Dual channel MPEG-4 encoder (9140-4300)
- Dual channel MPEG-2/4 encoder (9130-4300)
- Dual channel MPEG-2 decoder/MPEG-4 encoder for transcoding (9130-6200)

Interoperability

- **EtherneTV-MCS** Media Control Server - unified portal providing PC and set top box access to live and on-demand content
- **EtherneTV-STB** Set Top Boxes - decode MPEG-4 streams from low cost set top boxes
- **EtherneTV-NXG** Video on Demand Server - capture MPEG-4 streams for future playback
- **StreamPlayer and StreamPlayer Plus** - software decoding for desktop PCs
- **SDK** - build custom applications
- **VBSDS** - control DVD & VCRs using centralized management
- **VBScheduler** - schedule streaming sessions



SPECIFICATIONS

System Requirements

Video Encoder	MPEG-4 - ISO/IEC 14496-2:1999			
	Supports NTSC, PAL (PAL-M)			
	MPEG-4 Compliant Levels: Simple Profile	Video Resolution	NTSC	PAL
	Level 1 - up to 64 Kbps	SIF	352 x 240	N/A
	Level 2 - up to 128Kbps	QSIF	176 x 128	N/A
	Level 3 - up to 384 Kbps	CIF	N/A	352 x 288
	Video Rates: 1fps - 30 fps	QCIF	N/A	176 x 144
	Constant Bit Rate/ Constant Frame Rate	Custom	64 x 48	64 x 48
	Variable Bit Rate / Constant Frame Rate	Custom	128 x 96	128 x 96
	Constant Bit Rate / Variable Frame Rate	Custom	192 x 144	192 x 144
	User defined key frame interval	Custom	256 x 192	256 x 192
	Video Encoding: 64 Kbps - 2 Mbps	Custom	352 x 240	320 x 240
	Inputs: Composite or S-Video	Custom	N/A	384 x 288
Audio Encoder	MPEG-4 - ISO/IEC 14496-3:1999			
	Low Complexity AAC			
	Sample Rates: 8Khz, 16Khz, 24Khz 24Khz, 44.1Khz, 48Khz			
	Sample Bit Rates: 8Kbps to 256Kbps with 100bps granularity			
	Audio Modes: Stereo - 2 inputs/2 outputs			
	Mono1 - left input / left output			
	Mono2 - left input / left & right output			
	Audio Inputs: Microphone DIN, 1/8" mini connectors			
Ethernet Network	10/100 Mbps Ethernet via RJ-45, Static or DHCP, Auto sense Full/half duplex			
Protocols	Unicast/Multicast, DiffServ (QoS), UDP / IP / RTP / RTSP / RTCP			
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			
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 +70 degrees Celsius, operating humidity up to 90% non-condensing*			
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, .3A @ 110VDC, .5A @ 125VDC			
LCD	32 Characters display (16x2), backlighting			
LED Status	Power in (24VDC), Activity, Link, 10/100			

*High temperature operation has some dependencies, please contact VBrick.