

## High-Definition Desktop Videoconferencing



vPoint HD is Emblaze-VCON's latest software-only client for personal conferencing. vPoint HD encompasses the highest quality audio and video available in the market today, and includes features and functionality that move it beyond a desktop videoconferencing application. vPoint HD includes multiple media transport capabilities for video, audio and data. Among vPoint HD's advanced capabilities is the ability to send and receive video+data streams simultaneously using Emblaze-VCON's DualStream™ technology. Additional streaming capability, using Emblaze-VCON's Simulcast™, allows vPoint HD to chair or participate in corporate broadcasts. vPoint HD includes a built-in vMail application, allowing users to send video e-mails as well as record and play local videos. vPoint HD is versatile and a key application for any PC or laptop user, in organizations of any size.

### Advantages of Conferencing with vPoint HD

- Low-cost, high-quality IP videoconferencing
- Multiple viewing modes from mini-mode to full-screen
- Remote software upgrades from network administrator guarantee uniformity across the organization (with MXM)
- Incorporates H.239, HD DualStream™ for simultaneously sending and receiving video + data streams
- Supports encrypted conferences using the H.235 encryption standard
- Emblaze-VCON PacketAssist™ architecture for advanced Quality of Service (QoS) over IP
- Supports the ability for users to maintain multiple login profiles (MXM and non-MXM) for maximum business flexibility

### Highest Quality Audio and Video

Using the latest video standard, H.264, vPoint HD transmits and receives High-Definition quality video. Users can participate in videoconferences at data rates ranging from 64 Kbps to 4 Mbps, depending on the available bandwidth.

vPoint HD's audio features include full duplex echo cancellation, automatic noise suppression and wide-band audio in low bit-rate calls, all combining to deliver clear audio to the desktop.

### Superior Collaboration Environment

vPoint HD gives users the ability to share data from their desktop with the remote side. Various forms of sharing are possible such as desktop, file, window and region sharing.

When deployed in conjunction with Emblaze-VCON's Media Xchange Manager® (MXM), users can "invite" a 3rd party into their conference and everyone will automatically be placed into a multipoint conference bridge. Other video telephony features, such as video call transfer and video call forward are also possible when the MXM is combined.

### Corporate Friendly

Using the MXM Administrator program, the network administrator can remotely upgrade all vPoint HD endpoints, as well as manage those endpoints on a day-to-day basis.

vPoint HD includes video and audio device discovery as well as an audio tuning wizard, making it easy to install and operate, no matter which cameras and audio devices the user chooses.



*Emblaze-VCON's vPoint HD adds the crucial visual dimension to remote business interactions.*

## Minimum PC Requirements

- g Pentium IV 1.6 Ghz PC
  - H.264 requires Pentium IV 2.8 Ghz HyperThread-based CPU or 1.2 GHz Centrino CPU or AMD PCs equal or faster than Athlon XP 2600 and Athlon 64 2800\*
- g Windows 2000, XP
- g 25 MB available disk space
- g 256 MB RAM
- g Graphic display that supports DirectX 9.0
- g 2 available USB Ports (for video device and USB protection key)

**Note:** For Executive model, H.264-capable PC with USB 2.0 support is required for optimum performance

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## Specifications

### Video Specifications

**Transmission Speed**  
 H.323: 64 Kbps - 4Mbps

**Video Standards**  
 H.261, H.263, H.263+/++  
 H.264 - up to 512Kbps outgoing

**Live Video Resolution**  
 Interlaced CIF (352 x 576 pixels)  
 CIF (352 x 288 pixels)  
 SIF (352 x 240 pixels)  
 QCIF (176 x 144 pixels)  
 QVGA (320 x 240 pixels)  
 VGA (640 x 480 pixels)  
 720p (1280 x 720 pixels) incoming only

**Video Frame Rate**  
 Up to 15 fps: 64 - 128 Kbps  
 Up to 20 fps: 192 Kbps  
 Up to 30 fps: 256 Kbps +

**Video Features**  
 Video device discovery  
 Automatic NTSC/PAL detection  
 Unlimited number of video devices supported

**HD Simulcast™**  
 Chair or Participant in any  
 Interactive Multicast session  
 Integrated Broadcast Viewer  
 Uses bandwidth-efficient IP multicast

**Audio Specifications**  
**Audio Features**  
 Full duplex echo cancellation  
 Automatic noise suppression (ANS)  
 Automatic gain control (AGC)  
 Audio device discovery  
 Audio tuning wizard  
 Unlimited number of audio devices supported  
 Headset and speaker profiles  
 Voice Activity Detection (VAD)

### Audio Standards

G.711, G.722, G.722.1, G.723.1, G.728, G.729, AAC-LD

### Data Specifications

**HD DualStream™**  
 File, region, and window sharing  
 Windows desktop sharing  
 H.239 support  
 Tandberg DuoVideo support  
 Sending and receiving capability  
 1 live video source + 1 data source  
 Resolutions supported:  
 XGA, SVGA, VGA, CIF, QVGA, QCIF\*

### Networking Specifications

**Standards Supported**  
 ITU-T: H.323 v4.2  
 H.281 Annex Q (FECC)

### H.323 QoS Features

DiffServ  
 IP Precedence  
 Firewall port sync  
 NAT IP address mask  
 Port pinholing  
 Adaptive Bandwidth Adjustment  
 Packet loss recovery (FEC)  
 Packet ordering  
 Packet duplication control  
 Jitter correction  
 Lip sync correction  
 Overhead prediction  
 Max packet size adjustment

### Other Specifications

**PTZ Camera Unit (Exec model)**  
 1/4 inch color CCD  
 NTSC - 768 x 495 pixels  
 PAL - 752 x 585 pixels  
 Focal length: 4.2 to 44 mm  
 16x zoom range

### Viewing Modes

Mini screen  
 Regular screen  
 Large screen  
 Full screen

### Dialing Modes

Manual  
 Speed dial  
 Personal address book  
 Online directory  
 Multicast chair  
 Broadcast viewer

### Security

Encryption using H.235 (AES)  
 Using Emblaze-VCON SecureConnect  
 DES, 3DES and AES support  
 AES is NIST validated  
 Supports restricted access users

### Directory Services

1000+ local number directory  
 10,000+ global number directory  
 H.350 support (MXM mode)  
 LDAP online directory support  
 OpenLDAP  
 Microsoft ILS, SiteServer, Active Directory and Exchange  
 Sun iPlanet  
 Netscape Directory  
 Search and filter queries

### Language Support

English, French, German, Italian, Spanish (Spain and Latin), Portuguese (Brazil), Chinese and Japanese

\* In non-H.264 capable PCs, DualStream resolution is up to CIF.