

vPoint HD is Emblaze-VCON's latest software-only client for personal conferencing



Video Conferencing with vPoint HD

- High definition video and audio quality videoconferencing
- Supports ISDN networking up to 4 BRI lines
- Multiple viewing modes from mini-mode to full-screen
- 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
- Remote software upgrades from network administrator guarantee uniformity across the organization (with MXM)
- Fully compatible with Windows Vista SP1
- Variety of models
- 1080p Full HD incoming - Executive Model
- H.460.18/19 Firewall/NAT traversal support
- Recording & Streaming
- SIP, H323, H320

vPoint HD offers high definition audio and video up to 720p and 1080p*, and includes features and functionality that extend far beyond the capabilities of a desktop videoconferencing application. vPoint HD offers multiple media transmitting capabilities for video, audio and data. Among vPoint HD's advanced capabilities is the ability to send and receive video and 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 is a versatile, key application for any PC or laptop user, in organizations of any size. It is available in three different models: Basic, Professional and Executive, to suit varying corporate requirements. A special TV Broadcaster model is also available.

This newly released version also includes recording and streaming capabilities, as well as the ability to connect across firewalls and NAT, compliant with H.460.18/19 firewall/NAT traversal protocols.

* 1080P Incoming only is available in Executive mode.

High Definition Video and Audio

Using the latest H.264 video standard, vPoint HD sends 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. The superb high definition image quality provided by 4CIF and 720p technology enables the sharpest images in natural color and full motion, even with a simple webcam.

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

Superior Collaboration Environment

vPoint HD allows users to share data from their desktop with the remote side. Various forms of sharing are possible such as desktop, file, window and region sharing, utilizing a detachable data window. When deployed in conjunction with Emblaze-VCON's Media Xchange Manager®, (MXM), users can invite a 3rd party into their conference, and everyone will be placed automatically into a multipoint conference bridge. Other video telephony features, such as video call transfer and video call forward are also possible when an MXM server is used.

Corporate Ready

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 the user chooses.



High-Definition Desktop Videoconferencing

Minimum PC Requirements

- Pentium IV 2.4 Ghz PC
H.264 4CIF and above requires Core 2 Duo or Dual Core 3Ghz or faster CPU, or AMD equal to, or faster than Athlon 64x2 Dual
- 256MB 400 MHz RAM
- 25 MB available disk space
- Windows XP, Vista
- Graphic display that supports DirectX 9.0
- Two available USB Ports (one for video device and one for a USB protection key if used).

Specifications

Video Specifications

Transmission Speed
H.323: 64 Kbps - 4Mbps
SIP: 64 Kbps - 4Mbps
ISDN 64 Kbps - 512 Kbps (4BRI)

SIP protocols

RFC 3261 2396, 2543, 2617, 2822, 2833, 2976, 3264, 3960, 5168, 3262, 3550, 3984, 4961
Secure Authentication: MD5

Video Standards

H.261, H.263, H.263+
H.264 - up to 2Mbps outgoing

HD Video Resolution

1080p (1920 x 1080 pixels) incoming
720p (1280 x 720 pixels)

Other Video Resolution

4CIF (704 x 576 pixels)
4SIF (704 x 480 pixels)
VGA (640 x 480 pixels)
Interlaced CIF (352 x 576 pixels)
CIF (352 x 288 pixels)
SIF (352 x 240 pixels)
QVGA (320 x 240 pixels)
QCIF (176 x 144 pixels)

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

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

AAC-LD - 20Khz
G.722.1- Annex C - 14Khz
G722, G722.1 - 7Khz,
G.711, G.723.1, G.728, G.729 - 3.4 KHz

Data Specifications

HD DualStream™
File, region, and window sharing - (Detachable data view)
Windows desktop sharing
H.239 support in both live video and multicast
Tandberg DuoVideo support
Sending and receiving capability
1 live video source + 1 data source
Resolutions supported:
XGA, SVGA, 4CIF, VGA, CIF, QVGA

Networking Specifications

Standards Supported
ITU-T: H.323 v5.5
H.281 Annex Q (FECC)
H.460 17, 18, 19 (FW traversal)
ISDN: H.320, H.221, H.242, H.230

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

Recording/Streaming

WMV format
Low - CIF resolution
HIGH - 4CIF resolution
Only in executive version

Viewing Modes

Mini screen
Regular screen
Large screen
Full screen
Support for 16:9 aspect ratio in wide screen

Dialing Modes

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

Security

Encryption using H.235 (AES)

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, Chinese, Polish, Turkish, Norwegian, Korean, Russian, Indonesian

Emblaze-VCON Ltd.

Headquarters

Beit Rakefet
1 Emblaze Square
POB 2220
Ra'anana 43662
Israel
Tel: +972-9-7627800
Fax: +972-9-7627801

Emblaze-VCON, Inc. Americas

2 University Plaza, Suite 201
Hackensack, NJ 07601
USA
Tel: +1-201-883-1220
Fax: +1-201-883-1229

Emblaze-VCON

UK and Middle East

27 Old Gloucester Street
London WC1N 3XX
United Kingdom
Tel: +44 (0)203 372 8455

Emblaze-VCON India

4/1201 Sagar Darshan Towers
Sector 18, Nerul
Navi Mumbai 400706
India
Tel: +91 932 250 7755

Emblaze-VCON Korea

#622 Prime yeouido center, Korea
husing Bldg.45-11 Yeouido-dong
Yeongdeungpo-gu, Seoul
Tel: +82 70 7931 5777
Fax: +82 2 6008 5791

Emblaze-VCON Russia

5/1 Bolshoy Suharevsky Per
Moscow 127051
Russia
Tel: +7 499 788 72 39
Fax: +7 495 616 33 66

Emblaze-VCON Sweden

Avtronix Sweden AB
Sanda Hbn, 153 93 Mörkö
Sweden
Tel: +46 8 321 321
Fax: +46 8 556 20400

Emblaze-VCON Italy

Satnet S.r.l.
Via Abegg, 43 - 10050 - Borgone
Susa (TO)
Tel: +39 011 964 1375
Fax: +39 011 976 2802