

High Definition Desktop Videoconferencing



Advantages of 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

vPoint HD is Emblaze-VCON's latest software-only client for personal conferencing. vPoint HD offers high definition audio and video, and includes features and functionality that move it beyond a desktop videoconferencing application. vPoint HD comprises multiple media transport 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 includes a built-in vMail application, allowing users to send video e-mails as well as record and play local videos. vPoint HD is a versatile, key application for any PC or laptop user, in organizations of any size. This newly released version is now available in three different models: Basic, Professional and Executive to correspond with varying corporate requirements. A special TV Broadcaster model is also available.

High Definition Video and Audio

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. The superb high definition image quality provided by 4CIF and 720p technology enables the sharpest images in natural color and full motion.

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 crisp 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, 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 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 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 devices the user chooses.



Minimum PC Requirements

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- 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 or
faster than Athlon 64x2 Dual
- 256MB 400 MHz RAM
- 25 MB available disk space
- Windows 2000, 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).

Note: For 4CIF resolution and above,
H.264-capable PC with USB 2.0 support is
required for optimum performance

Specifications

Video Specifications

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

Video Standards

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

Live Video Resolution

720p (1280 x 720 pixels)
4CIF (704 x 576 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

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, G.722.1-
Annex C

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,
QCIF

Networking Specifications

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

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)
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, Chinese, Polish, Turkish,
Norwegian, Korean, Russian.

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