High-Quality Set-top Videoconferencing System

The HD3000 is Emblaze-VCON’s most advanced set-top conferencing system, combining videoconferencing, streaming video, and multipoint conferencing all in one. The high-quality, lifelike video and crisp, clear audio guarantee that meeting participants are experiencing the best videoconferencing quality available. The HD3000 streaming capabilities extend the reach of any point-to-point or multipoint videoconference out over the network, where it can be viewed by any authorized person with a streaming viewer. The HD3000’s built-in MCU allows for multiparty videoconferences without any additional cost, and provides the best value of any set-top conferencing appliance in the market today.

Embedded MCU*

The HD3000’s embedded MCU can connect up to 4 sites. Participants can dial into a multipoint videoconference, or the MCU administrator can set up a dial-out conference, instantly connecting all parties. With chair control, the conference administrator can ensure the conference runs smoothly. Using Emblaze-VCON’s HD DualStream technology, participants can share data and video simultaneously during a multipoint conference, as well as view data and video sent by a remote site on a single monitor.

Advanced Streaming Capabilities

The HD3000 incorporates multiple ways of streaming live videoconferences both over the corporate network and over the Internet, during a point-to-point or multipoint conference. Additionally, users can participate in high-bandwidth videoconferences, while streaming those conferences over the Internet at a lower and more appropriate bandwidth. Users can simultaneously stream a presentation and live video to the remote site. These streaming capabilities can be accessed via the HD web manager, allowing the network administrator to begin and end streaming, while the conference leader can concentrate on the meetings’ proceedings.

Advantages of Conferencing with HD3000

- Provides TV-like video quality using the H.264 video standard
- Multipoint conferencing capabilities via an embedded 4-port MCU
- HDSimulcast™ technology for advanced streaming capabilities
- H.239 and HD DualStream™ for simultaneously sending video and data streams
- Movable Picture in Picture (PIP)
- Dual monitor support
- Web-based management for easier control and administration
- Media Xchange Manager® management for advanced videoconferencing functions
- Supports encrypted conferences using the H.235 encryption standard (AES)
- Multiple languages
What's in the box?

- HD3000 set-top unit
- Power cable
- Audio and Video cables
- LAN cable
- RS-232 serial cable
- Handheld remote control
- Tabletop microphone (omni)
- Universal power supply
- User's guide

Software Upgrades
- View and notification of upgrade availability

Directory Services
- 1000+ local number directory

H.323 QoS Features
- DiSHServ
- IP Precedence
- Firewall port sync
- NAT IP address mask
- Port address
- Adaptive Bandwidth Adjustment
- Packet ordering
- Packet duplication control
- Jitter correction
- Lip sync correction
- Overhead prediction

Embedded MCU Specifications
- 4 participants @ 384 Kbps/part.
- 3 participants @ 768 Kbps/part.

Language Support
- 14 languages supported: English, French, German, Italian, Spanish, Chinese (Simplified & Traditional), Japanese, Russian, Swedish, Finnish, Turkish, Korean

Specifications

High-Quality Set-top Videoconferencing System

Video Specifications

Transmission Speed
- 64 Kbps - 4Mbps*

Video Standards
- H.261, H.263, H.263+/++ , H.264

Video Inputs
- Integrated main camera
- S-video (2nd camera)
- Composite/RCA/Phono (2nd camera)
- Composite/RCA/Phono (DV/VR)

Video Outputs (NTSC or PAL)
- S-video (main monitor)
- Composite/RCA/Phono (2nd monitor/VR/DVD)
- XGA, D-type 15 (main/2nd monitor)

Video Formats & Resolution
- Interlaced CIF (352 x 288 pixels)
- CIF (352 x 240 pixels)
- QCIF (176 x 144 pixels)

Video Frame Rate
- Up to 15 frames/sec: 64Kbps to 384Kbps
- Up to 30 frames/sec: 384Kbps and higher
- Up to 60 fields/sec: 1 Mbps and higher

Integrated Main Camera
- Pan/tilt/zoom (PTZ)
- Pan range: +/- 100° (left/right)
- Tilt range: +/-90°
- Zoom range: 16x
- Focal length: 4.0 - 64 mm
- Auto focus, full auto white balance
- 9 local and 9 remote preset positions

Audio Specifications

Audio Standards
- G.711, G.722, G.723.1, G.728, G.729

Audio Inputs
- Microphone omni (mini stereo)
- Line-level RCA, L/R (VCR)
- Line-level RCA for Aux mono input

Audio Outputs
- Line-level RCA, L/R (TV)
- Line-level RCA, L/R (VCR recording)

Audio Features
- Full duplex echo cancellation
- Automatic noise suppression (ANS)
- Gain control
- Microphone and VCR input audio mixing
- Ability to turn off internal echo canceller
- DTMF tone generation

* Not available on LT model
** LT limited to 2 Mbps

Data Specifications

Data Sharing
- Utilizes desktop/laptop presentations utility

Data Ports
- RS-232 data port (for Serial API or PTZ camera control)

Data Video Resolution
- XGA (1024 x 768)
- SVGA (800 x 600)
- VGA (640 x 480)
- up to 4CIF for PAL/NTSC monitors

HD DualStream™
- H.239 support
- 1 live video source + 1 data source
- Supported in MCU mode
- Supported for both video and data streaming

Streaming Specifications

HD Simulcast™
- Multicast Streaming Video
- Multicast to Broadcast Viewer
- Quicktime, and other multicast viewers with integrated SDP listeners

Unicast Streaming Video
- Data rate downspeeding
- Unicast to Quicktime viewers
- Multi-unicast:
  - Up to 25 unicast streams at 384 Kbps during multicast session
  - Up to 10 unicast streams at 384 Kbps during 384 Kbps + multicast

Emblaze-VCON Interactive Multicast
- Participate in any Emblaze-VCON Interactive Multicast session
- Uses bandwidth-efficient IP multicast

Networking Specifications

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

Networking
- Integrated 10/100 Ethernet NIC
- DHCP
- DNS
- FTP
- HTTP with DAA
- Telnet

Other Specifications

Security
- Encryption using H.235 (AES)
- MTU - allows to set the MTU packet size to match the need of the network
- (Default setting is 1200 bytes)

Browser-based Management
- DAA (Digest Access Authentication) DIsh/Hang-up
- Start/stop streaming
- Phone Book management
- IP address
- Gatekeeper registration
- LAN configuration
- Call status
- View streaming
- Camera control
- Diagnostics

Control
- Handheld remote control
- Embedded web-based control
- IP-based API

Physical Dimensions
- 34 cm x 21 cm x 13 cm
- 13.4 in x 8.3 in x 5.1 in
- 2.3 kg (5 lb)

Language Support
- English, French, German, Italian, Spanish (Spain & Latin America), Portuguese (Portugal & Brazil), Chinese (Simplified & Traditional), Japanese, Russian, Swedish, Finnish, Turkish, Korean

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