



High-Quality Set-top Videoconferencing System



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

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.



Emblaze-VCON's HD3000 incorporates high-quality videoconferencing, multipoint conferencing, and streaming into a low-cost, user-friendly set-top appliance.



High-Quality Set-top Videoconferencing System

What's in the box?



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

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 China Representative Office
Unit 1321, Tower B. COFCO Plaza
No. 8 Jianguomennei Avenue
Beijing, 10005
China
Tel: +86-10-6526-9791
Fax: +86-10-6526-9790

Emblaze-VCON GmbH Germany
Schmellerstr. 23
D-80337 Munchen
Germany
Tel: +49-89-76757142
Fax: +49-89-76757143

Emblaze-VCON Italy
Via Portuense 1555
Commercity M27
00050 Ponte Galeria (Rome)
Italy
Tel: +39-06-400-43110
Fax: +39-06-400-43113

Emblaze-VCON UK
London House, 42 Brook St.
London, W1K 5DB
United Kingdom
Tel: +44 (0)117 302 6795
Fax: +44 (0)117 302 6794

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 (DVD/VCR)

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

Video Formats & Resolution
Interlaced CIF (352 x 576 pixels)
Interlaced SIF (352 x 480 pixels)
CIF (352 x 288 pixels)
SIF (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/-30°
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
WINS
DNS
FTP
HTTP with DAA
Telnet

Software Upgrades
Via LAN
Notification of upgrade availability

Directory Services
1000+ local number directory

H.323 QoS Features
DiffServ
IP Precedence
Firewall port sync
NAT IP address mask
Port pinholing
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.
Voice-activated switching
Speed matching
Dial-in or dial-out
Cascading up to 10 sites
H.243 chair control

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)
Dial/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

