



HD3000

High definition set-top videoconferencing system

Optional Accessories

- 29" TV monitor(s)
- Rollabout cart
- Plasma cart
- Document camera
- 3 speaker system

Additional Features

- International Languages
- Software upgradeable
- Multiple audio and video sources
- Moveable Picture in Picture (PIP)
- Auto swap PIP
- Manual dial, phone book and speed dial

Key MXM Features

- Call transfer
- Ad-hoc conferencing
- Hunting groups
- Simplified gateway dialing
- Remote software upgrade
- Remote configuration
- Remote call initiation
- Remote reboot
- Endpoint property setting lockout

The HD3000 is VCON's newest and most advanced set-top conferencing system combining videoconferencing, streaming video and multipoint conferencing all in one. The high-quality, life-like 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 settop conferencing appliance in the market today.

- Provides TV-like video quality using advanced video standards
- Multipoint conferencing capabilities via an embedded 4-port MCU
- Incorporates HD Simulcast™ technology for advanced streaming capabilities
- Web-based manager makes the HD3000 easy to control and administer
- VCON Media Xchange Manager™ management for advanced videoconferencing functions
- VCON PacketAssist™ architecture for advanced Quality of Service (QoS) over IP
- HD3000 software developer's tool kit (HDK) makes it easy to control the system using any external control device

Embedded MCU

The HD3000's embedded MCU has robust capabilities and features, usually found only in expensive, dedicated MCUs, but is simple to use and administer. Participants can dial into a multipoint videoconference, or the administrator can set up a dial-out conference, instantly connecting all parties. The HD3000 implements audio and video transcoding to enable each participant to receive the best video and audio experience possible. Additionally, the HD3000 incorporates speed matching, allowing endpoints to connect at different speeds, maintaining the best audio and video supported by that endpoint. The HD3000's embedded MCU is included as a standard feature.

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. The streaming capabilities of the HD3000 can be accessed via the web-based manager, allowing the network administrator to begin and end streaming, freeing up the conference leader.



VCON's HD3000 incorporates very high-quality videoconferencing, multipoint conferencing and streaming all in a low-cost, easy to use set-top appliance.

HD3000

What's in the box?

- HD3000 set-top unit
- Handheld remote control
- Tabletop microphone
- Quick reference card
- User's guide
- Color-coded cables
- Serial cables
- Universal power supply

Specifications

Video Specifications

Transmission speed
64Kbps – 4Mbps

Video Standards
H.261, H.263, H.263+, H.263++
H.264 (future software upgrade)

Video Frame Rate
15 frames/sec: 64Kbps - 320Kbps
30 frames/sec: 384Kbps and higher
60 fields/sec: 1Mbps and higher

Video Resolution
Interlaced CIF (352 x 576 pixels)
CIF (352 x 288 pixels)
QCIF (176 x 144 pixels)

HD DualStream™
1 live video source+1 data source
Supported in MCU mode
Supported in streaming mode: both video
and data source streamed

Video Inputs (NTSC or PAL)
Main camera
S-video
(2) Composite

Video Outputs (NTSC or PAL)
Main monitor (S-video)
Composite (2nd monitor)
VCR (Composite)

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

Audio Features
Full duplex echo cancellation

Audio Inputs
Microphone
VCR (line level input)
AUX (line level input)

Audio Outputs
(2) RCA (TV)
(1) RCA (VCR)

Embedded MCU Specifications

4 participants @ 384Kbps/part.
3 participants @ 768Kbps/part.
Voice activated switching
Speed Matching
Audio and video transcoding
Dial in or dial out
Cascading

Streaming Specifications

HD Simulcast™:
Multicast Streaming Video
Multicast to VCON Broadcast Viewer,
Quicktime viewer 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 384Kbps
during multicast session
Up to 10 unicast streams at 384Kbps
during 384Kbps call + multicast

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

Data Specifications

Data Sharing
Utilizes desktop/laptop presentations
utility

Data Video Resolution
4CIF
CIF
QCIF

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
LAN/IP
Software sends message to user when
new upgrade is available

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
Max packet size adjustment

Peripheral Specifications

PTZ Camera Unit
¼ inch color CCD
NTSC – 768 x 495 pixels
PAL – 752 x 585 pixels
Focal length: 4.2mm to 44mm
16x zoom range

Monitors Supported

Single - TV
Dual - TV + TV

Other Specifications

Browser-based Management
Uses DAA (Digest Access Authentication)
Dial
Hangup
Start/stop streaming
Phone book management
IP address
Gatekeeper registration
LAN configuration
Call status
View Streaming
Camera and volume control

Control

Handheld remote control
Embedded web-based control
(1) RS-232 (serial API)
IP-based API

Physical Size

34cm x 18.5cm x 11cm
1.8kg in weight

Language Support

English, French, Italian, Spanish (2),
Portuguese (2), German, Chinese,
Japanese, Russian, Swedish

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