EMBLAZE VCON
Video Made Easy

HD 600

High Quality Videoconferencing Codec

The HD600, Emblaze-VCON's new entry point in the visual communications market, is a high-performance videoconferencing codec for integration into a custom multimedia room environment. When combined with external audio mixers, video switches and touch-screen control devices, virtually any rich media communication solution can be created. The HD600 produces high quality video with extremely low latency at IP conferencing data rates up to 2 Mbps. With streaming capabilities and a suite of integration APIs, the HD600 can be used to create any custom application in an array of industries such as health care, large education facilities and corporate boardrooms. The life-like video and crisp, clear audio guarantee that meeting participants experience the convenience of effective videoconferencing.

Streaming Video, Audio and Data

The HD600 incorporates multiple ways of streaming live videoconferences both over the corporate network and over the Internet. Support for H.239 allows users to share documents or presentations, even if they're sent by a remote site, on a single monitor. Additionally, users can participate in high-bitrate videoconferences, while streaming those conferences over the Internet at a lower and more appropriate bandwidth. Administrators can configure and start streaming via the HD600 web-based remote management program.

Integration APIs

The HD600 serial and IP-based APIs allow for easy integration of video with a variety of products. Using the APIs, developers can equip their tailor-made applications with the following features:

Call initiation	Set network QoS parameters
Call termination	System reboot
Set call parameters	Multicast settings
Set system parameters	Debugging messages
Streaming control	

HD series

HD600

Specifications

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Video Specifications
Transmission Speed
H.323: 64 Kbps - 2 Mbps

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

Live Video Resolution
CIF (352 x 288 pixels)
SIF (352 x 240 pixels)
QCIF (176 x 144 pixels)

Video Frame Rate
Up to 15 fps: 64 - 320 Kbps
Up to 30 fps: 384 Kbps +

Video Inputs
2 Composite, RCA/Phono ports

Video Outputs
S-video,4 pin mini DIN
Composite, RCA/Phono
VGA, Dtype 15

Cameras Supported
Pan/Tilt (PT) Analog
Sony D100
Sony EVI-D30/31
Stationary Analog

Far-end Camera Control (FECC)
Complies with H.281 Annex Q

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

Data Sharing
Complies with H.239 ITU-T standard
Utilizes HD Data utility for sharing
PC desktop applications and presentations.

Data Video Resolution
SVGA (800x600)
VGA (640x480)
up to 4CIF for PAL/NTSC monitors

Security Specifications
Encryption
Complies with H.235 (AES) ITU-T standard

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

Audio Inputs
Microphone omni (mini stereo)
Built-in microphone on
  stationary camera
Line level RCA, L/R

Audio Outputs
Line level RCA, L/R

Audio Features
Full duplex echo cancellation
Automatic noise suppression
Ability to turn off internal echo canceller
DTMF tone generation

Networking Specifications
Standards Supported
ITU-T: H.323 v4

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

Software Upgrades
Via HD Upgrade utility, the HD600 device, or Emblaze-VCON'sMedia Xchange Manager® (MXM)
Upgrade availability notification

Phone Book Capacity
1000+ entries
Multi-language support
Unicode support

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

Streaming Specifications
HD Simulcast™
Multicast Streaming Video
Multicast to Emblaze-VCON's
Broadcast Viewer, Quicktime viewer and other multicast viewers with integrated SDP listeners

Unicast Streaming Video
Unicast to Quicktime viewers
Data rate downspeeding
Multicast-unicast in same call:
  Up to 15 unicast streams at 384Kbps during multicast session
  Up to 10 unicast streams at 384Kbps during 384Kbps call + multicast

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

Other Specifications

Browser-based Management
Uses DAA (Digest Access Authentication)
Dial/Hangup calls
Phone book management
Device and network configuration
Streaming start/stop/view
Camera and volume control
Call status
Diagnostics
Call detail reports

Control
Hand-held Remote control
Internal infrared receiver

Physical Dimensions
Height/Length/Width:
4.2 cm x 25 cm x 19 cm
(1.65 in x 9.84 in x 7.48 in)
Weight: 1.050 kg (2.3 lb)

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

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