

High Performance Multimedia Conferencing



Advantages of Conferencing with HD4000pro

- Provides TV-like video quality using advanced video standards
- H.264 video support up to 4 Mbps and ISDN up to 512 Kbps (4xBRI)
- Advanced data sharing capabilities with multiple user options
- Native 16:9 wide screen display support
- Dual monitor support
- CD-quality audio using 20 KHz ultra-wide band audio
- Call forward, call pickup, call transfer, ad-hoc conferencing (via MXM)
- Web-based management for easier control and administration
- H.239 and HD DualStream™ for simultaneously sending and receiving video and data streams
- Supports encrypted conferences using the H.235 encryption standard

Emblaze-VCON's HD4000pro workgroup conferencing system combines the versatility of a high-performance multimedia platform with high-quality videoconferencing, transmitting up to 4CIF and receiving 720p resolution. Utilizing the newest H.264 video standard and clear, crisp audio, the HD4000pro enables executives, managers and educators with dispersed colleagues and operations to collaborate more clearly and effectively across continents. The HD4000pro incorporates advanced data conferencing capabilities, allowing you to turn any videoconference into a fully interactive workgroup meeting with the click of a button. The HD4000pro is part of Emblaze-VCON's total rich media conferencing solution, which enables seamless communication and collaboration using all forms of interactive media. With its outstanding price performance, the HD4000pro is the optimum choice for organizations seeking to enhance communications between remote sites.

Multi-purpose Solution

In addition to providing value as an advanced videoconferencing solution, the HD4000pro can also be used as a high-performance multimedia workstation. In a small conference room with a single monitor, or a large training room with dual plasma displays, the HD4000pro can be accessed to perform multiple functions. During an offline meeting or training session, the HD4000pro can be used to display presentations or VCR/DVD videos. The HD4000pro can access network and local files, such as office™, to share during a videoconference or to display during an offline meeting. When connected to the Internet, the HD4000pro can be used to join a web data conference or instant messaging session during a videoconference or offline.

Flexible and Easy To Use

The HD4000pro provides flexibility for customers looking for a complete videoconferencing application for their conference rooms, classrooms or training rooms. It offers an open system where, in addition to the conferencing software, various applications can be installed and shared during calls or offline. As a complete solution, the HD4000pro contains all the hardware and preconfigured software required by organizations for rapid deployment. The system has a unique user interface for intuitive room conferencing and is controlled by remote control or wireless keyboard, allowing greater control and navigation options.



Emblaze-VCON's HD4000pro allows organizations to create workgroup conferencing systems that add multiple dimensions of communication to any boardroom, classroom or workgroup setting.



What's in the box?

- Multimedia videoconferencing system
- Windows XP Professional
- Pan-Tilt-Zoom (PTZ) camera
- Wireless keyboard
- Tabletop Microphone
- Installation and setup guide
- System Cables
- International remote control

Optional:

- Tabletop Pod (VGA input, Microphone connector, USB key input)
- ISDN 512 Kbps (4xBRI) connectivity
- 3 Speaker system w/subwoofer

Specifications

Video Specifications

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

Video Standards

H.261, H.263, H.263+/++
 H.264 - up to 4Mbps

Live Video Resolution

Up to 720p (1280 x 720 pixels) incoming only
 4CIF (704 x 576 pixels)
 VGA (640 x 480 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 10 fps: 64 Kbps
 Up to 20 fps: 96 to 192 Kbps
 Up to 30 fps: 256 Kbps and higher

Video Inputs

1 Composite and S-Video

Video Outputs

1 each: DVI (Digital Video Interface), VGA, S-video

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
 Voice Activity Detection (VAD)
 Front Mic Support

Audio Standards

20 KHz: AAC-LD
 14 KHz: G.722.1 Annex C
 7 KHz: G.722, G.722.1
 3.4 KHz: G.711, G.723.1, G.728, G.729
 AMR (3G)

Data Specifications

Data Sharing Methods
 Documents (MS Office, PDF, etc.)
 Video clips (AVI, MPEG, WMV, etc.)
 Audio clips (MP3)
 Graphic files (BMP, GIF, TIF, etc.)
 Internet
 Other (HTML, MS Project, etc.)
 VGA IN via tabletop pod option
 HD DualStream™
 Sharing of file, window, browser, and Windows desktop
 H.239 support
 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
 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

Camera Specification

Pan-Tilt-Zoom Camera Unit
 Picture - 1/4-color CCD
 Horizontal resolution: 460 TVL (PAL), 470 TVL (NTSC)

Other Specifications

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 Emblaze-VCON Frontier
 — Firewall traversal
 — Network address translation
 Supports restricted access users

Control

International remote control (Option)
 Wireless keyboard (option)
 Embedded web-based control

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 (Spain and Latin), Portuguese (Brazil), Chinese, Japanese, Greek, Turkish

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