EMBLAZE VCON

Group Videoconferencing Systems

Video Made Easy

HD Series
Web-based Management

Version 2.5

User's Guide

Limited Warranty

LIABILITIES Emblaze VCON's entire liability and the Purchaser's exclusive remedy shall be at Emblaze VCON's option, either return of the price paid or repair/replacement of the Product not meeting Emblaze VCON's declared Limited warranty. Emblaze VCON or its suppliers shall not be liable in any event to anyone for any indirect, incidental, consequential, special or exemplary damages including without limitation damages for loss of business profits, business interruptions, business information or other pecuniary loss arising out of the use of or inability to use the said Product even if advised of the possibility of such damages. In any case, Emblaze VCON's entire liability under any provision of this agreement shall be limited to the amount actually paid by the Purchase for the Product.

About This User's Guide

This User's Guide explains how to manage and conduct videoconferences with Emblaze VCON HD videoconferencing devices from a computer located away from the conference venues. The chapters emphasize a how-to approach, and include detailed instructions for setting the HD's configuration, participating in conferences and getting the most out of the HD's capabilities.

Emblaze VCON Technical Support

This User Guide and the HD Online Help were designed to help you use your HD device easily and to enjoy its many features.

If a situation occurs that is not covered by the supplied documentation, contact your local Emblaze VCON distributor, and request assistance from their Emblaze VCON-trained technical support department. Please describe the problem, device, and PC operating system (if applicable), and any other relevant details.

Also, you may access the Technical Support section of the Emblaze VCON website (http://www.emblaze-vcon.com/support/index.shtml) in order to check its knowledge base or initiate other customer support processes:

Page	Type of support
Support Notes	Troubleshoot or receive technical information about specific Emblaze VCON products.
Downloads	Download a new software release or a free product evaluation.
Demo Numbers	Test your videoconferencing system.
License Key Requests	Request a permanent license key for your organization's MXM(s).

*T*ABLE OF *C*ONTENTS

1 WELCOME TO HD WEB MANAGEMENT

Emblaze VCON's HD appliances (HD3000, HD3000LT, HD2000) contain an embedded web management program, which provides powerful operational and management capabilities from computers in remote locations. You can access the HD3000 Web Management from any PC through an Internet Explorer browser.

To access the Web Management program, the following prerequisites must be met:

❑ The HD must be set to enable remote web management.

❑ If a password is set, the user must enter a correct password.

❑ Internet Explorer 5 or higher must be installed on the remote PC.
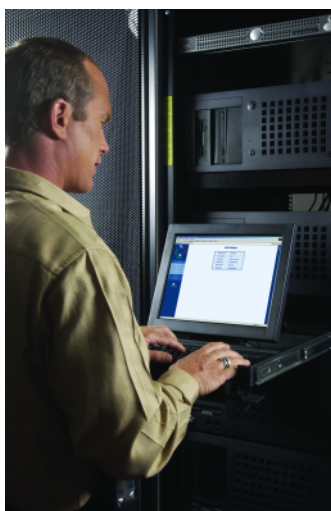
2 *ENABLING REMOTE MANAGEMENT OF THE HD APPLIANCE*

To manage and operate the HD appliance remotely, turn on the Web Management option in the appliance's configuration.

➤ **To enable remote management**

1. Press <Menu>. The main Menu opens. Select **Options**.

Select **Options**.

MENU
Network
Camera
Monitor
Audio
Options
Version
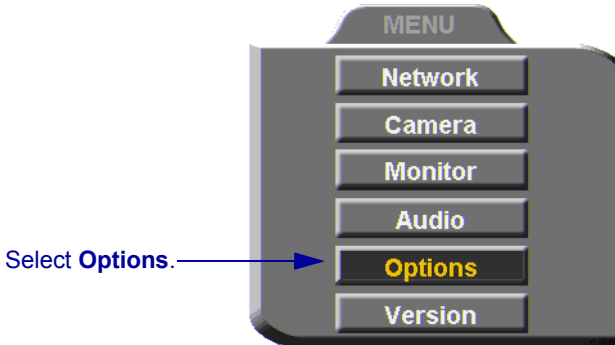
2. Navigate to the **Security** tab.

3. Select **Enable Web Management**.

4. To secure the Web Management program against unauthorized access, enter a password using numbers and/or letters. To type letters, press the yellow **KEYBOARD** SoftKey to open the online keyboard.

Enter the system's **Password** using numbers and/or letters. To type letters, press the yellow softKey.

Security tab

Select **Enable Web Management** to make remote management available.

SECURITY

Password: ****

☐ Protect system configuration
☐ Prevent outgoing calls
☐ Lock the system
✓ Enable Remote Upgrade
✓ Enable Web Management
✓ Enable Telnet for remote commands
✓ Enable Streaming

Encryption mode: ↻ None

Call
MCU
Security
GUI
Lang.
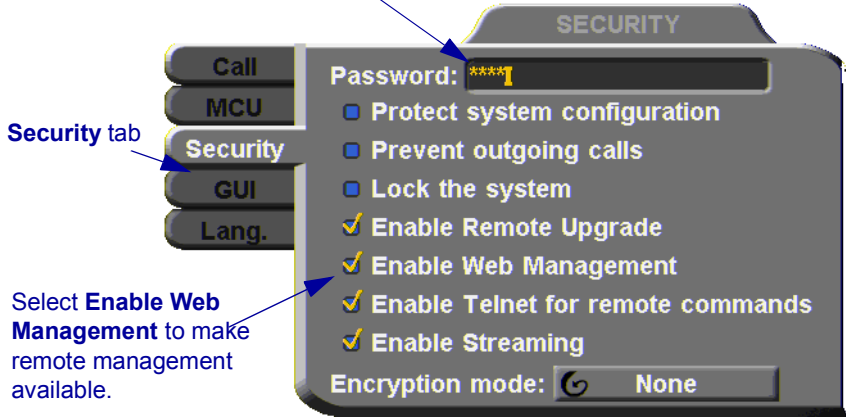
5.   Press <OK> to apply the change and close the dialog.

OK

3 LOGGING INTO THE WEB MANAGEMENT PROGRAM

➤ **To log into the Web Management Program**

1. In your remote computer's browser, enter the IP address of your HD appliance. For example, **x.y.z.a**, where [x.y.z.a] is the IP address.

2. Click the **Administrator** link.

From the Main Screen, you can perform most of the HD3000's management functions, such as end point configuration and address book editing, and operations such as initiating conferences and streaming.

4 REMOTE DIAL AND HANGUP

4.1 Call Dialing

Through the HD Web Management, you can initiate and hang up videoconferences for the HD from a remote location. Conferences may begin by dialing manually or by selecting a contact from the Phone Book.

➤ **To start a videoconference by dialing manually**

1. On the left side of the HD Web Management page, click **Dial**.

2. In the **Address** box, type the receiving contact's IP address, MXM user number, or DNS name.

3. Choose the maximum **Bandwidth** that you want this call to use.

4. Click **Dial**.

Enter an IP address, DNS name, or User Number.

Select the maximum bandwidth for the call.

Click **Dial**.

Address:	1034
Bandwidth:	384 Kbps
	Dial

➤ **To start a videoconference from the Phone Book**

1. On the left side of the HD Web Management page, click **Phone Book**.

2. In the receiving contact's entry line, click the Dial icon.

Name	Address	Bandwidth	
A BYRNE	172.20.2.52	384 Kbps	
ANNE MAX	1059	384 Kbps	
ATLANTA BRANCH	1014	384 Kbps	
DAVID SCHOR	1052	384 Kbps	
DAVID9000	172.20.1.135	384 Kbps	
GENEVA BRANCH	172.20.1.84	384 Kbps	
HONG KONG BRANCH	172.20.1.75	384 Kbps	
TOKYO BRANCH	172.20.2.50	384 Kbps	

Click the entry's Dial icon to dial.

Import   Export

Add New Entry

➤ **To hang up and end a videoconference**

1. On the left side of the HD Web Management page, click **Hang Up**.

2. Click **Disconnect**.

Click the button to disconnect the current call

Disconnect

— If the conference is point-to-point, the call ends.

— If the conference is multipoint, the call will continue between the other participants.

4.2   Phone Book Entries

The Phone Book contains entries of contacts and their addresses. To dial a contact, you only need to click the Dial icon on the same line.

In the HD Web Management Phone Book, you can add new entries, edit existing entries, or delete entries not needed anymore.

➤ **To add a new Phone Book entry**

1. Below the list of contacts, click the Add Entry icon.

Name	Address	Bandwidth	
A BYRNE	172.20.2.52	384 Kbps	☎🖾✗
ANNE MAX	1059	384 Kbps	☎🖾✗
ATLANTA BRANCH	1014	384 Kbps	☎🖾✗
DAVID SCHOR	1052	384 Kbps	☎🖾✗
DAVID9000	172.20.1.135	384 Kbps	☎🖾✗
GENEVA BRANCH	172.20.1.84	384 Kbps	☎🖾✗
HONG KONG BRANCH	172.20.1.75	384 Kbps	☎🖾✗
TOKYO BRANCH	172.20.2.50	384 Kbps	☎🖾✗

Import | Export

Add New Entry icon. ➡ 🖾 **Add New Entry**

2. In the Add Entry dialog box, enter the required information.

Enter a name

Enter an IP address, DNS name, or User Number

Select the maximum bandwidth for calls to this contact.

Click **Add Entry**.

Name [   ]

Address [   ]

Bandwidth [384 Kbps ▼]

[Add Entry]

3. Click **Add Entry**. The new entry now appears in the Phone Book.

➤ **To delete a Phone Book entry**

1. On the left side of the HD Web Management page, click **Phone Book**.

2. Click the Delete Entry icon on the entry line that you want to delete.   ✗

3. Click **OK** to confirm.

    The entry disappears from the Phone Book.

4.3 Exporting and Importing the Phone Book

Through the Web Management program, you can back up the HD's Phone Book. This feature is useful during the following situations:

❑ If the Phone Book is erased accidentally, restoring the backed-up version minimizes any losses.

❑ If your organization has more than one HD, you can create a Phone Book in one unit, export the Phone Book, and then import it to the other HDs.

Export Phone Book

Before importing a Phone Book, you have to export one first. The HD gives this file a *.bin* extension.

➤ **To export the Phone Book**

1. On the left side of the HD Web Management page, click **Phone Book**.

2. Below the list of contacts, click **Export**.

Name	Address	Bandwidth	
A BYRNE	172.20.2.52	384 Kbps	📞🖼️✗
ANNE MAX	1059	384 Kbps	📞🖼️✗
ATLANTA BRANCH	1014	384 Kbps	📞🖼️✗
DAVID SCHOR	1052	384 Kbps	📞🖼️✗
DAVID9000	172.20.1.135	384 Kbps	📞🖼️✗
GENEVA BRANCH	172.20.1.84	384 Kbps	📞🖼️✗
HONG KONG BRANCH	172.20.1.75	384 kbps	📞🖼️✗
TOKYO BRANCH	172.20.2.50	384 Kbps	📞🖼️✗

Import ← → Export **Click Export**.

🖼️
Add New Entry

3. Enter a name and location for the Phone Book file. The HD will automatically add a *.bin* extension.

4. Click **OK**.

Import Phone Book

Importing a Phone Book completely overwrites the HD unit's current Phone Book. Any differences between the current and imported Phone Books are not saved.

➤ **To import a Phone Book**

1. On the left side of the HD Web Management page, click **Phone Book**.

2. Below the list of contacts, click **Import**.

Name	Address	Bandwidth	
A BYRNE	172.20.2.52	384 Kbps	☎ 🖼 ✗
ANNE MAX	1059	384 Kbps	☎ 🖼 ✗
ATLANTA BRANCH	1014	384 Kbps	☎ 🖼 ✗
DAVID SCHOR	1052	384 Kbps	☎ 🖼 ✗
DAVID9000	172.20.1.135	384 Kbps	☎ 🖼 ✗
GENEVA BRANCH	172.20.1.84	384 Kbps	☎ 🖼 ✗
HONG KONG BRANCH	172.20.1.75	384 Kbps	☎ 🖼 ✗
TOKYO BRANCH	172.20.2.50	384 Kbps	☎ 🖼 ✗

Click **Import**. → Import   Export

Add New Entry

3. Enter the name of the Phone Book file and click **OK**.

Import file :

OK   Cancel

A message appears warning that any differences between the current and imported phone books will not be saved. Click **OK** to continue importing.

5 NETWORK CONFIGURATION

From a remote terminal, you may access the following network configurations:

❑ LAN - networking details.

❑ H.323 - features for communicating over IP.

❑ Advanced - configuration of advanced H.323 features, such as QoS, network speed, and NAT IP address.

❑ Streaming Control - starting and stopping streaming, and defining the HD's streaming configuration.

5.1 LAN

➤ **To view or modify the LAN configuration of the HD**

1. On the left side of the screen, click **Configuration**, **Network** and then **LAN**.

2. In the **LAN** dialog box, enter the HD's address and information about its connection to the LAN (Local Area Network).

☐ **Automatically Obtain IP**	
IP Address :	172.20.25.144
Sub-net Mask :	255.255.0.0
DNS Server :	172.20.0.100
WINS Server :	172.20.0.100
Domain :	VconLtd.co.il
Default Gateway :	172.20.0.254
MAC address :	00:D0:E7:50:01:04
OK	Cancel

Automatically Obtain IP Select to enable HD to receive its network configuration from the LAN's DHCP server and enter it automatically in the **LAN** tab.

If this option is not selected, you have to enter the LAN properties manually. Consult with your system administrator.

IP Address   IP address of your HD.

If the HD receives an address automatically, it is a temporary address which is liable to be changed when the network's users' IP addresses are updated periodically.

If you manually enter an IP address here, the address remains permanently.

Subnet Mask   Your company's subnet mask.

DNS Server
&
WINS Server   IP Addresses of the DNS server and the WINS server. Registering with these servers enables the HD to translate names to IP addresses.

Domain   DNS domain name of your company (for example, **yourcompany.com**).

Default Gateway   IP address of the network's Gateway router. The gateway helps the HD send and receive calls between subnets.

MAC Address   The unique Media Access Control (MAC) address of your HD appliance.

3.   Click **OK**.

5.2 H.323

➤ **To view or modify the H.323 configuration of the HD**

1. On the left side of the screen, click **Configuration**, **Network** and then **H.323**.

2. In the **H.323** dialog box, choose to register the HD in an Emblaze VCON MXM or in an H.323 Gatekeeper, or to operate as a stand-alone system.

None; Gatekeeper; MXM	To register with the **MXM** or a **Gatekeeper** and receive services from them, select the appropriate option. Select **None** to operate the HD as a stand-alone system.
MXM Admin. IP	Enter the IP address of the MXM, if applicable.
Gatekeeper IP	Enter the IP address of the Gatekeeper, if applicable.
User Number	Videoconferencing contacts registered with the same MXM or other Gatekeepers will be able to reach you through your User Number as well as your IP address. Enter a number to register the HD with the MXM or Gatekeeper. Some of these devices may register your device under this number, while others assign these numbers, regardless of your request.

Station Name
The Station Name is the identification of the HD on the connected network. Consult with the system administrator before modifying this box.

If the system is registered with the WINS server or a Gatekeeper, the HD can use station names instead of IP addresses for starting and receiving calls. When you register with a Gatekeeper, the station name is entered as your User Name.

If the system has access to a Domain Name System (DNS) server, the Station Name is also the DNS Host Name of the system. Enter the Host Name, then a dot, then the Domain Name: **StationName.Domain.com**.

Enable Lip Synchronization Mechanism
Select this option to enable the synchronization of the audio and video of a conference. HD viewers can adjust the lip synch during a call (on remote control, press **Status>Adjust>down arrow**).

Automatic Buffering Control
Buffer Control optimizes the transmission of the video for the available dynamic bandwidth. If network conditions require, the system holds back frame transmission before transmitting, in order to attain smooth playback and avoid "jumping".

Select this option to make the buffer control automatic. Deselect it to make it adjustable during videoconferences (on remote control, press **Status>Adjust>down arrow**).

Bandwidth Adjustment
Enables videoconferences to precede at reduced bandwidth if the network is congested. Deselecting this option maintains a constant bandwidth during the session, but it may cause network problems.

3. Click **OK**.

5.3   Advanced

In the Advanced dialog box, administrators can view or modify Quality of Service (QoS) and other advanced network settings.

➤ **To view or modify the H.323 advanced configuration of the HD**

1. On the left side of the screen, click **Configuration**, **Network** and then **Advanced**.

2. Set Advanced properties as follows:

QoS Priority Type   Select the type of QoS priority used for transmitting packets during heavy network congestion conditions.

❑ **None** - network transfers packets in a normal Best-Effort method (*First In, First Out*, or *FIFO*).

❑ **IP Precedence** - network gives priority to video, audio, control bits according to the eight levels of IP precedence.

❑ **Diffserv** - network transfers packets according to specific differentiated services priority levels.

Priority Values   For **Video**, **Audio**, and **RTCP** (Real Time Control Protocol) **Priority**, enter an appropriate priority level. According to their priority levels, bits are queued for forwarding by QoS-supporting routers.

The priority levels vary, depending on whether the selected Priority Type is **IP Precedence** or **Diffserv**.

For QoS values, see Network Configuration>Advanced Properties>Setting Quality of Service (QoS) Priority Levels in the HD3000/2000 User's Guide.

Ethernet Speed   Define the speed of the network to which the HD3000 is connected. The HD supports 10 MB and 100 MB half-duplex and full-duplex networks.

If the **Ethernet** (network) **speed** is defined to **Auto-Negotiate**, the HD can determine the common set of networking options supported between it and the remote parties in a conference. For example, they can figure out the highest speed that they each support, or automatically set full-duplex operation if both parties support that mode.

NAT IP   Enter the public address (if applicable) for your HD.

NAT (Network Address Translation) is a protocol in which a LAN uses one set of IP addresses for internal communication (within an organization's private LAN) and a different, single address for communication with a public network, such as the Internet. In this way, a NAT helps protect a LAN from exposure to unwanted traffic.

Restore Default Configuration   Reset the Network>Advanced configuration to the default values.

3.   Click **OK**.

5.4   Streaming Control

In the Streaming Configuration page, you can start and stop sending video and data streams. This page also contains the default settings for streaming video and audio to other viewers from the HD.

➤ **To turn streaming on**

1. On the left side of the screen, click **Configuration**, **Network** and then **Streaming**.

IP address:	239.0.10.204
Time to live:	1
Audio port:	18100
Video port:	36100
Video resolution:	⊙ CIF ○ QCIF
Bandwidth:	384 Kbps
Password:	

☑ Announce streaming session

Restore default configuration

[OK]   [Cancel]

[Start Streaming]

2. Click **Start Streaming**.

    After several seconds, the video stream starts. The video appears in the viewer on your computer screen.

➤ **To define the Streaming Control configuration of the HD**

> The default Streaming settings are recommended for most streaming conditions. Change them ONLY after consultation with your system administrator.

1. In the Streaming Control dialog box, set the properties as follows:

IP Address	The destination IP address for a multicast streaming broadcast. All viewers receive the streams from this common IP address. This address must be a class D address in the range of 224.0.0.0 to 239.255.255.255.
Time to Live	The maximum number of routers that the streaming may pass through. If the session exceeds this number, the stream will not be transmitted further.
Audio Port	The ID of the port used for the audio connection.
Video Port	The ID of the port used for the video connection.

Video Resolution

❑ Select **CIF** (Common Interchange Format) to transmit video at a higher resolution and lower frame rate (352 x 240 pixel format). Usually, CIF provides better overall video quality, especially when a higher transmission bandwidth (at least 128 kbps) is available.

❑ Select **QCIF** (Quarter Common Interchange Format) to transmit video at a medium resolution and higher frame rate. QCIF images contain one-fourth the information contained in a CIF image (176 x 144 pixels). QCIF may be chosen if the remote party has a system that does not support CIF format, or if the bandwidth is low.

Bandwidth	The maximum bandwidth to be used for streaming. The actual bandwidth will depend on the amount of available bandwidth during the streaming session.
Password	To restrict access to the streaming program, define a password. When a user clicks **View Stream**, a request for a User Name (preset to **guest**) and password appear.

If you define a streaming password, we recommend that you protect the system configuration in the HD's Security dialog box.

Announce Streaming Session	Select to send announcements about the streaming program and its schedule to users. This information is usually available in Emblaze VCON's Broadcast Viewer.
Restore Default Configuration	Reset the Streaming configuration to the default values.

2. Click **OK**.

6 CAMERA CONFIGURATION

The Camera Configuration dialog box contains options affecting the system's video display.

➤ **To access the Camera configuration**

1. On the left side of the screen, click **Configuration** and then **Camera**.

2. Set the Camera configuration as follows:

Camera Control by Far End	*Far End Camera Control* (*FECC*) permits the remote party to control your HD appliance's camera, so that they see views that are convenient for them. FECC provides control over the pan/tilt/zoom positioning and the adjustment of brightness, color, contrast and hue.
Select Camera PTZ Type	If a second Pan/Tilt/Zoom (PTZ) camera is connected to your HD appliance, choose its model from the **Camera 1** list.

Select to allow the remote contact to control your HD3000's camera.

If a second PTZ camera is connected, choose its model.

☑ Camera control by far end

Select camera PTZ type:

Main: CANON ▾

Cam 1: None ▾

OK   Cancel

3. Click **OK**.

7 MONITOR CONFIGURATION

To view video and HD menus and dialog boxes from the HD device, you must define the monitor configuration. If this configuration is not defined correctly, your monitor(s) will be blank.

The HD devices support the use of two monitors to display video and other media during conferences. Select a dual monitor option only if two TV monitors are connected.

Monitor mode:

- ◉ TV1
- ○ TV1 + TV2
- ○ VGA
- ○ TV1 + VGA

VGA Resolution [VGA ⌄]

[OK]   [Cancel]
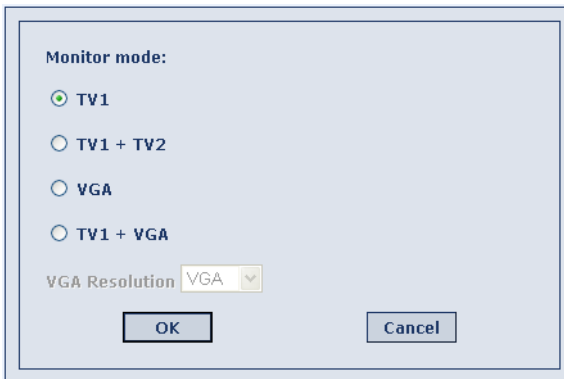
TV1	Single TV monitor configuration, displaying video and the application interface.
TV1 + TV2	2 TV monitors - An S-Video TV monitor displays local video and the application interface, and a Composite TV monitor displays remote video.
VGA	Single VGA monitor configuration, displaying video and the application interface.
VGA + TV1	1 VGA-type monitor and 1 TV monitor - A VGA-type monitor displays local video and the application interface, and an S-Video TV monitor displays remote video.
VGA Resolution	Choose the resolution for the VGA monitor of the configration.

4. Click **OK**.

8   AUDIO CONFIGURATION

In the HD Web Management program, you can set various audio properties:

- Audio source
- Mixing options
- Acoustic Echo Cancellation

➤ **To set audio properties**

1. On the left side of the screen, click **Configuration** and then **Audio**.

2. Set the audio properties as follows:

Audio Input   Choose an audio input source

Select **TableTop** to use a tabletop microphone or other audio device connected to the HD appliance's **MIC** connector.

Select **Line Level** to use a microphone or audio device (such as VCR, mixer, etc.) connected to the HD appliance's **VCR AUD IN** connector.

VCR Audio Mix   Select the appropriate mixing mode. Mixing modes determine how the audio from a VCR connected to the HD appliance is mixed and sent to the remote party or recorded to a VCR cassette.

For a guide to selecting the appropriate mixing mode for your purposes, see "Setting Mixing Modes" in the *HD3000/2000 User's Guide*.

Acoustic Echo Cancellation   When the microphone picks up audio from your speakers, an echo is created. Acoustic Echo Cancellation (AEC) suppresses this effect. By default, AEC is turned on.

You should disable AEC only if audio input comes through a Line Level connection from a playback device that does not capture sound from the conference room.

Mic. Gain Level   The gain level is the amplification of the microphone volume when transmitted to the conference. Depending on your microphone or other audio input, you may adjust the gain to a suitable level.

Select an audio
mixing mode.

Select the current audio
source for your system.

Select to turn AEC on.

Select a suitable
gain level.

Mute the incoming
audio (speakers).

Mute the outgoing
audio (microphone)

Audio input   VCR audio mix

⊙ Table-top mic   ⊙ No mix

○ Line level   ○ VCR record

                     ○ VCR playback

☑ Acoustic echo cancellation (AEC)

Mic. gain level: ⊙ Low ○ Medium ○ High

☐ Mute Speaker

☐ Mute Mic.

OK   Cancel

3.   Click **OK**.

9 OPTIONS CONFIGURATION

From a remote terminal, you may access the following options configurations:

❑ Call - settings for answering point-to-point calls and other call parameters.

❑ MCU - settings for answering multipoint calls, and MCU conference chair control.

❑ Security - protection from unauthorized conferencing and access to the HD's system configuration.

❑ GUI - defining how the HD operates.

❑ Languages - selection of the menu and dialog boxes' language.

9.1 Call

In the **Calls** page, customize how the HD end point indicates and accepts incoming point-to-point calls.

➤ **To set Call Options**

1. On the left side of the screen, click **Configuration**, **Options** and then **Call**.

2. Set call answering as follows:

Auto Reject	Select to automatically reject all incoming point-to-point calls.
Manual Answer	Select to accept or reject calls as they come in.
Auto Answer	Select to automatically accept all point-to-point incoming calls.
Auto Answer + Mute Microphone	Select to automatically accept point-to-point incoming calls but to mute the outgoing audio at the beginning of the conference. After the conference begins, you may turn the audio back on.
Auto Accept Multicast Floor	During multicast conferences, the *Floor* (one user's video and audio being broadcast to all participants at the same time) may be granted to you by the conference's organizer (*Chair*).
	Select this option to automatically accept the floor when it's granted to you.

Enable H.239 Support	Enable the use of H.239 for transmitting images of PC screens to the videoconference. The H.239 standard enables the HD device to convert PC application graphics into a separate media stream and transmit it parallel to the video stream.
Enable H.264	Enable the use of the H.264 standard, which provides better video quality, compression efficiency, and more resilience against packet and data loss, than earlier standards.
Call Details Logging	Enable the HD device to generate Call Details Records (CDR), which provide details about all calls in which the device takes part.

Select a point-to-point call answering option.

Always accept the floor whenever the Chair grants it during a Multicast call.

Select to apply H.239 protocol when transmitting images from a PC screen.

Select to enable the use of the H.264 standard in calls with other end points supporting it.

Select to generate a record of all incoming and outgoing calls.

Answer mode:

○ Auto reject

○ Manual answer

⦿ Auto answer

○ Auto answer + mute microphone

☑ Auto accept multicast floor

☑ Enable H.239 support

☑ Enable H.264

☑ Call details logging

OK   Cancel

3.   Click **OK**.

9.2 MCU

Multipoint conferences include more than two end points. They are managed by the HD3000's embedded MCU.

In the **MCU** page, customize how the HD end point accepts and manages multipoint calls using its embedded MCU.

➤ **To set MCU Options**

1. On the left side of the screen, click **Configuration**, **Options** and then **MCU**.

2. Set call answering as follows:

Auto Reject   Select to automatically reject all incoming multipoint calls, if the system is already engaged in another call.

Manual Answer   Select to answer multipoint calls by manually accepting an incoming call request.

Auto Answer   Select to answer multipoint calls automatically.

Enable MCU Chair Control   Select this option to control the Chair during MCU conferences (see "MultiPoint Conferencing - Controlling the Chair" on page 42).

Grant Floor Automatically   Select this option to grant every floor request automatically during an MCU conference (if you are the Chair).

Select a multipoint call answering option.

Select to make MCU conference management available in your HD.

Select to enable automatic grant of the floor during an MCU conference..

Answer mode:

○ Auto reject

○ Manual answer

⊙ Auto answer

☑ Enable MCU chair control

☐ Grant floor automatically

OK   Cancel

3. Click **OK**.

9.3   Security

The Security dialog box contains the available security options for the HD.

Protect System Configuration	Select to prevent unauthorized changes to the system configuration. The system's configuration is then disabled to videoconferencing users.
Prevent Outgoing Calls	Select to prevent users from initiating calls.
Enable Remote Upgrade	Select this option to enable the transfer of upgrades and patches to the HD appliance.

1. For upgrading the HD software through the HD Upgrade Utility.

2. For software integrators to send software patches, upgrades, and modifications to the HD appliance.

Enable Telnet for Remote Commands	Select this option to enable Telnet access for programming the HD software, using the HD's ZAPI application. This access is intended for software integrators.
Enable Streaming	Select this option to enable the transmission of multimedia streaming from this HD.
Encryption Mode	Choose the mode of encryption for this HD appliance's conferences

❏ Choose **None** to allow unencrypted calls.

❏ **AES** (Advanced Encryption Standard) is a standard encoding method for encrypting data transmissions in commercial and government sectors of the USA and its use is growing worldwide.

❏ **Auto** enables the HD to select among any installed and supported encryption type.

Prevent users from initiating calls.

Prevent unauthorized changes to the system configuration.

Enable transfer of software upgrades and patches to the HD.

Enable Telnet access for programming.

Enable multimedia streaming from the HD.

Type of encryption used on outgoing calls.

☐ Protect system configuration

☐ Prevent outgoing calls

☑ Enable Remote Upgrade

☑ Enable Telnet for remote commands

☑ Enable Streaming

Encryption mode: ⦿ None ○ AES ○ Auto

[OK]   [Cancel]

9.4 GUI

The **GUI** dialog box contains several options for defining how the HD operates.

➤ **To set GUI Options**

1. On the left side of the screen, click **Configuration**, **Options** and then **General**.

2. Set GUI options as follows:

Sleep Mode After ___ Min	Type the amount of time that passes before the HD hides the display on its monitor.
Transparency	The amount of transparency determines if the video is visible on its monitor behind the HD's dialog boxes and menus.

> ❑ **0** percent transparency hides the video behind the interface elements.

> ❑ **5** to **60** percent shows the video behind the interface at various visibility levels.

Auto Generate Phonebook Entries	Select to add remote parties to the HD's Phone Book after a call ends.

Enter the amount of time before the HD hides the display.

Choose the level of transparency of the HD dialog boxes and menus.

Select to add remote parties to the Phone Book after a call ends.

Sleep mode after: 20 min.

Transparency: 15%

☑ Auto generate phonebook entries

OK   Cancel

9.5   Languages

The HD application's interface (menus, dialog boxes, commands) may be viewed in several different languages. The default language after initial installation or upgrade is English. However, you may easily switch the interface language to:

- Français
- Deutsch
- Italiano
- Chinese (China)
- Suomi
- Svenska
- Korean
- Español (Spain or Mexico)
- Português (Portugal or Brazil)
- Japanese
- Chinese (Taiwan)
- Russian
- Turkish

➤ **To change the HD interface's language**

1. On the left side of the screen, click **Configuration**, **Options** and then **Languages**.

2. Select the language you want and then click **OK**. The HD application's interface then appears in the language you chose.

➤ **To change the Web Management program's language**

1. On the left side of the screen, click **Configuration**, **Options** and then **Languages**.

2. From the Web Interface box, choose the language you want and click **OK**. The Web Management program then reopens in the language you chose.

English   Español (Spain)

Français   Español (Mexico)

Deutsch   Portugues (Portugal)

Italiano   Portugues (Brazil)

Japanese   Chinese (P.R.C.)

Suomi   Chinese (TW)

Russian   Svenska

Turkish   Korean

OK   Cancel

WEB Interface Language

English

10 VERSION

The Version configuration includes the following:

❑ Info - ID information about the HD appliance and its software.

❑ Upgrade - Setup for upgrading the HD software.

10.1 Info

The Info page shows ID information for the software and hardware components of the HD appliance.

➤ **To view system information**

❑ On the left side of the screen, click **Configuration**, **Version** and then **Info**.

Software version:	0250.M05.D18.H12
Flash version:	13110312
Firmware version:	19003500
Hardware version:	00000001
Serial number:	13370022

10.2 Upgrade

Alternatively, the HD may initiate the upgrade process or let you know when an upgrade is available. Checking for upgrade can be done automatically or at your own initiative.

To upgrade the HD software, the system's LAN configuration must be set up completely - all parameters must be defined (see "LAN" on page 11).

FTP Server	FTP site from where to download the upgrades when they are available.
Username/ Password	Login information required to access the upgrade site.
Automatically Check for Upgrade	This option enables the HD to check the FTP site for a new software version whenever the system restarts.

Check for Upgrade Every __ Days
The HD checks for the upgrade after a specific period, IF the system has not restarted during the interim. Enter the number of days in this period.

Enter the server in which the upgrade is located.

Enter the FTP login details.

Check for new software upgrades automatically.

If the system has been running continuously for this period of time, it will check for new software upgrade automatically.

FTP server: ftp.vcon.co.il

Username: hdupgrade

Password: hdupgrade

☑ Automatically check for upgrade

Check for upgrade every 30 days

OK   Cancel

11 CALL STATISTICS

During a conference, you may view the HD's call connection status. The Call Statistics page displays the pertinent information about the connection between the HD and the remote parties.

Call Statistics

Remote IP address: DAVID
Remote name: 172.20.1.18
Call duration: 00:00:46

	Video mode:	Video format:	Video rate:	Frame rate:	Audio mode:	Audio rate:
Incoming	H.261	CIF	101 Kbps	19 Fps	G.728	16 Kbps
Outgoing	H.263	CIF	60 Kbps	13 Fps	G.728	16 Kbps

Call Status During Point-to-Point Call

Remote IP address: 172.20.1.84
Remote name: HD2000R-NIR
Call duration: 00:17:29

	Video Mode	Video Format	Video Rate	Frame Rate	Audio Mode	Audio Rate
Incoming	H.263	CIF	12 Kbps	13 Fps	G.722	64 Kbps
Outgoing	H.263	CIF	13 Kbps	13 Fps	G.722	64 Kbps

Remote IP address: 172.20.1.135
Remote name: DAVID9000
Call duration: 00:17:17

	Video Mode	Video Format	Video Rate	Frame Rate	Audio Mode	Audio Rate
Incoming	H.261	CIF	269 Kbps	15 Fps	G.722	64 Kbps
Outgoing	H.261	CIF	14 Kbps	13 Fps	G.722	64 Kbps

Remote IP address: 172.20.10.21
Remote name: DAVID SCHOR
Call duration: 00:17:07

	Video Mode	Video Format	Video Rate	Frame Rate	Audio Mode	Audio Rate
Incoming	H.263	CIF	236 Kbps	8 Fps	G.722	64 Kbps
Outgoing	H.263	CIF	15 Kbps	13 Fps	G.722	64 Kbps

Multipoint

Call Status During MCU Conference

12 LAN STATUS

Use the LAN Status page to:

❏ Check if your HD appliance is connected to the local LAN and is also registered with a Gatekeeper and/or an MXM.

❏ Check that the IP Address displayed is the one that you set or received for the system.

❏ Check if streaming is turned on.

> If you selected **Gatekeeper** and entered the correct IP address in the Network dialog box's **H.323** tab, the HD should be registered in the Gatekeeper. If it is not, change the **User Number** that you entered. You might have entered a number that is already occupied.

Station name :	David3000
User number :	1001
IP address :	172.20.1.39
Gatekeeper :	Gatekeeper: Logged in.
MXM server :	MXM Server: Logged in.
Streaming :	Not Connected

13 AUDIO DIAGNOSTICS

The Audio Diagnostics test checks that the HD appliance's audio connection is correct and that the volume is adjusted.

➤ **To initiate an Audio Diagnostics test**

1. On the left side of the screen, click **Diagnostics** and then **Audio**.
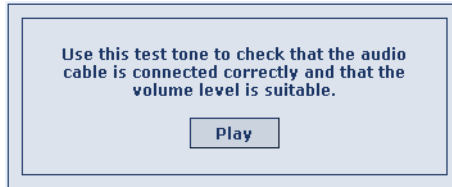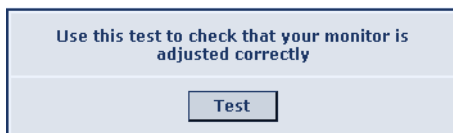

2. Click **Play**.

    A short tune indicates that the HD's audio is set up correctly.

14 VIDEO DIAGNOSTICS

The Video Diagnostics test checks that your HD's monitor is adjusted correctly.

➤ **To initiate the Video Diagnostics test**

1. On the left side of the screen, click **Diagnostics** and then **Video**.

<div align="center">

Use this test to check that your monitor is
adjusted correctly

[Test]

</div>

2. Click **Test**.

    A video test screen appears on the HD's monitor. Check that the colors are correct. If not, adjust your monitor accordingly.

3. To end the test, press <Cancel> on the HD's remote control.

15 RESTART SYSTEM

In the Restart System page, you can restart the HD appliance.

➤ **To restart the HD appliance**

1. On the left side of the screen, click **Diagnostics** and **Restart System**.

2. Click the **Restart** button and then click **OK** to confirm.

   The Restart operation may take several seconds. Please wait patiently.

<table>
<tr><td align="center">Station name: David3000</td></tr>
<tr><td align="center">Pressing restart will cause the system to power down,
and then restart.</td></tr>
<tr><td align="center">Restart</td></tr>
</table>

16 CAMERA CONTROL

On the Camera Control page, you can control the positioning of the HD's camera and control the volume of the speakers.

➤ **To enter the Camera Control page**

❑ On the left side of the screen, click **Utilities** and **Camera Control**.

To set a preset, position the camera, click **Set** and then a number.
To move to a preset, click **Recall** and then the relevant number.

Choose to control the Local or Remote camera.

Click + to zoom in and - to zoom out.

Click the arrows to pan and tilt the camera to a satisfactory position.

Select the current local video source.

17 CALL DETAIL REPORT

The Call Log enables your company or organization to keep a record of conferences that your HD3000 both dials and receives. The HD3000 generates a Call Details Report (CDR) which is accessible from the HD Web Management program. You can analyze this information in detail for departmental accounting or network planning purposes.

The CDR provides call duration, remote party identification, call direction, video and audio codecs and formats, and more.

Call Detail Report

Save

Call Duration	Call Direction	Remote Name	Remote Address	Video Mode (RX)	Video Format (RX)	Video Bitrate (RX)	Video FrameRate (RX)	Audio Mode (RX)	Audio Bitrate (RX)	Video Mode (TX)	Video Format (TX)	Video Bitrate (TX)	Vic Fram (T
00:02:46	<-	SANDY	172.20.1.18	H261	NULL	0	0	G728	0	H263	CIF	0	(
00:03:06	<-	DAVID SCHOR	172.20.10.21	H263	CIF	0	0	G722	50	H263	CIF	494	2
00:00:13	->	DAVID SCHOR	172.20.10.21	H263	CIF	0	0	G722	57	H263	CIF	135	1

➤ **To save the CDR**

1. Click **Save**.

18 DOWNLOADS

The Download page provides access to download various HD utilities. Emblaze VCON makes the latest versions of these utilities available on its website.

❏ **HD Upgrade** - Program that enables you to download software upgrades directly to your HD appliance.

❏ **HD Data** - Program that creates a data connection between a PC and the HD appliance, allowing the HD to send the stream of a data application or document to other participants.

Downloads

- Download - <u>Data utility</u> - EXE file - 319Kb
- Download - <u>Upgrade utility</u> - EXE file - 2.96Mb
- Download - <u>ZDB</u> - EXE file- 3.63Mb

To use the data utility:
1. Install the Data utility from the download section.
2. Run the Data Utility from Windows "Start" menu.
3. When you get the follow dialog open, type in the HD IP address and press OK.
4. From this moment on, anything which appears on your PC desktop shall also be displayed on the TV.

Logging debug messages to ZDB application:
1. Please install ZDB.EXE debug logger application. You can find the latest version on the FTP site.
2. Run the ZDB application form the Windows Start-->Programs-->VCON HD Utilities-->ZDB menu.
3. The PC running the ZDB and the HD must be on the same LAN.
4. To request the HD to send all its debug messages to the ZDB, open the ZDB Options Menu item and select the "Debug Levels"
5. In the dialog that you get enter the IP address of the HD and press "Start Capture".
   Once connected, the "Debug levels by Module"list box items shall change color from disabled gray, to operational black.

Any debug message shall be logged now to your ZDB. Once logging complete, save the debug messages buffer and send to VCON technical support at zapi@vcon.com

19   VIEW STREAM

In the HD Web Management program, you can view a current streaming broadcast.

To view streams, Emblaze VCON's Broadcast Viewer or Apple's QuickTime Player must be installed on the client computer.

➤   **To view streaming video**

1.   From the Web Management program's home page, click **View Stream**.

   -or-

   On the left side of the screen, click **View Stream**.

2.   If required, enter the password (consult with your system administrator if necessary). The User Name is automatically defined as **guest**.

   After several seconds, the video plays on your screen.

> 💡   Some networks, including the Internet, support only unicast streaming, not multicast. If the stream doesn't appear on your screen after 10 seconds, try unicast streaming (link is provided on the View Stream page).

3.   To stop viewing the stream, exit the View Stream page.

20 MULTIPOINT CONFERENCING - CONTROLLING THE CHAIR

The embedded MCU is a feature of the HD3000. It is not included with the HD3000LT, nor is the HD3000LT upgradable to the HD3000.

During a multipoint conference using an HD's embedded MCU, you can control Chair functions through the Web-based Remote Management. If you control the Chair, you can join/disconnect sites, grant/take back the floor, and force a specific view to all the sites.

20.1 Enabling MCU Chair Control

To control the Chair, you have to turn this ability on in the HD's configuration.

➤ **To enable MCU chair control**

1. On the left side of the screen, click **Configuration**, **Options** and then **MCU**.

2. Select **Enable MCU Chair Control**.

Answer mode:

○ Auto reject

○ Manual answer

● Auto answer

Select to make MCU conference management available in your HD. ────► ☑ Enable MCU chair control

☐ Grant floor automatically

OK   Cancel

3. Click **OK**.

20.2   *Answering MultiPoint Calls*

During an open conference, the HD can accept and reject additional incoming calls manually, or answer them automatically. If the HD answers the call, the conference is then a multipoint call.

➤   **To set the Answer Mode**

1.   On the left side of the screen, click **Configuration**, **Options** and then **MCU**.

Select an Answer mode for multipoint calls.
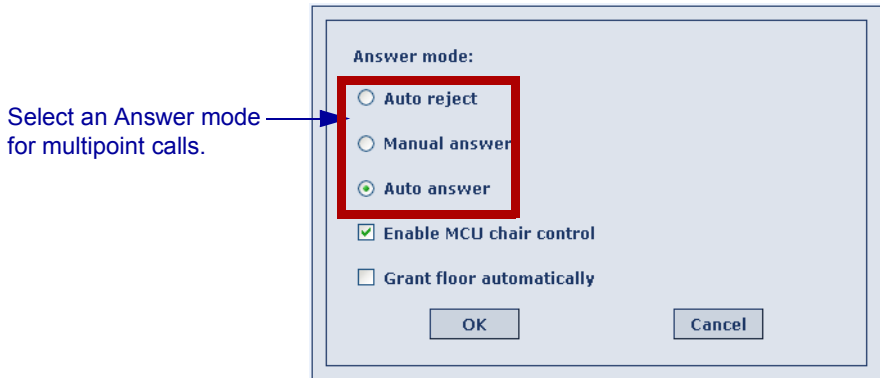
2.   Set the Answer Mode as follows:

Auto Reject   Select to automatically reject incoming calls while the HD is engaged in a call.

Manual Answer   Select to accept or reject additional callers as they call in. A message, including the caller's station name or address, asks the user to answer the call.

                     To accept the call, the user at the HD unit must press <OK> on the remote control.

Auto Answer   Select to automatically connect additional callers as they call in.

3.   Click **OK**.

20.3 *Inviting Sites to a Multipoint Conference*

Using the embedded MCU, you can join up to three additional sites by both dialing out or accepting incoming calls.

The multipoint conference appear on the screens of all participants in Voice-activated Switching.

➤ **To invite an additional site to a multipoint conference**

1. While you're in one call, dial another site through either the Dialer or the Phone Book.

Dial sites using the Manual Dialer and/ or the Phone Book.
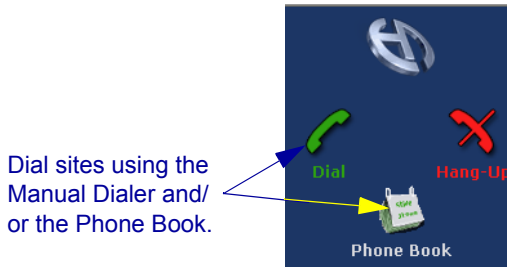
The sites and the conference state appear in the Call Statistics page.

Remote IP address: 172.20.1.84
Remote name: HD2000R-NIR
Call duration: 00:17:29

	Video Mode	Video Format	Video Rate	Frame Rate	Audio Mode	Audio Rate
Incoming	H.263	CIF	12 Kbps	13 Fps	G.722	64 Kbps
Outgoing	H.263	CIF	13 Kbps	13 Fps	G.722	64 Kbps

Remote IP address: 172.20.1.135
Remote name: DAVID9000
Call duration: 00:17:17

	Video Mode	Video Format	Video Rate	Frame Rate	Audio Mode	Audio Rate
Incoming	H.261	CIF	269 Kbps	15 Fps	G.722	64 Kbps
Outgoing	H.261	CIF	14 Kbps	13 Fps	G.722	64 Kbps

Remote IP address: 172.20.10.21
Remote name: DAVID SCHOR
Call duration: 00:17:07

	Video Mode	Video Format	Video Rate	Frame Rate	Audio Mode	Audio Rate
Incoming	H.263	CIF	236 Kbps	8 Fps	G.722	64 Kbps
Outgoing	H.263	CIF	15 Kbps	13 Fps	G.722	64 Kbps

Multipoint

2.   Click **Multipoint** to enter the MCU Chair page.

MCU Chair

Site list:	Remote address			
HD2000R-NIR	l72.20.1.18	Floor to Site	View site	Disconnect
DAVID9000	172.20.1.18	Floor to Site	View site	Disconnect
DAVID SCHOR	172.20.10.21	Floor to Site	View site	Disconnect

Take Floor   View Floor

20.4   Controlling the Floor

As the Chair, you control who has the floor. The multipoint conference begins in Voice-activated Switching mode. At any time, you can take the floor, grant the floor to any site, or release the floor.

Taking the Floor

When the Chair has the floor, its video is seen by all the sites in the conference.

➤ **To take the floor**

❏   Click **Take Floor**.

MCU Chair

Site list:	Remote address			
HD2000R-NIR	l72.20.1.18	Floor to Site	View site	Disconnect
DAVID9000	172.20.1.18	Floor to Site	View site	Disconnect
DAVID SCHOR	172.20.10.21	Floor to Site	View site	Disconnect

Take Floor   View Floor

Click to take the floor.

Granting the Floor to a Site

The video of the site receiving the floor is seen by all the other sites and the chair.

As the Chair, you can either grant every floor request automatically or accept or reject each request manually.

➤ **To turn on automatic floor grant**

1. On the left side of the screen, click **Configuration**, **Options** and then **Call**.

2. Select **Grant Floor Automatically**.

Select to enable automatic grant of the floor.

Answer mode:

○ Auto reject

○ Manual answer

⊙ Auto answer

☑ Enable MCU chair control

☐ Grant floor automatically

OK   Cancel
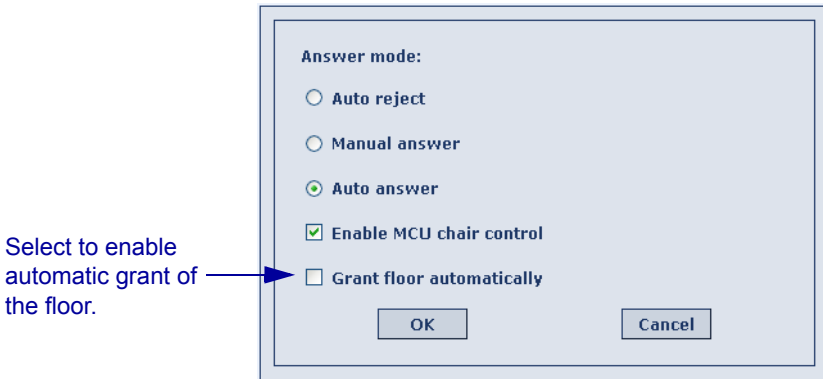
3. Click **OK** to save the settings.

➤ **To grant the floor**

❑ In the MCU Chair page, click the **Floor to Site** button next to the site who will get the floor.

Click to grant the floor to the corresponding site.
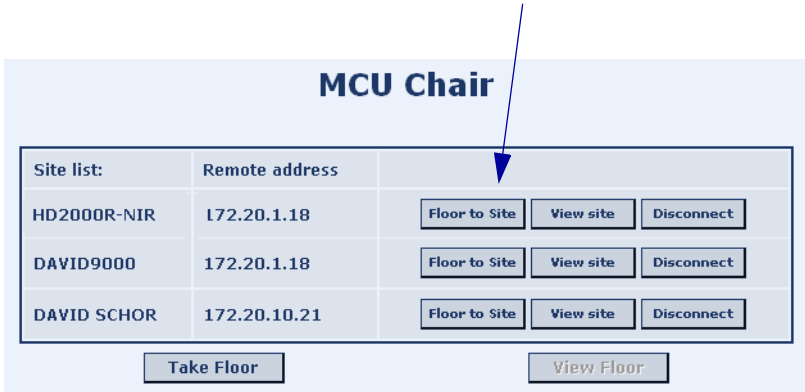
If **Grant Floor Automatically** is not turned on, you have the choice of granting the floor manually or rejecting the request.

➤ **To grant the floor manually**

❑ When you receive a floor request message, click **OK**.

To reject the request, click **Cancel**.
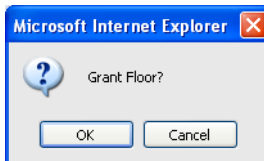
Releasing the Floor

Releasing the floor switches the conference into Voice-Activated Switching mode.

➤ **To release the floor**

❑ Click **Release Floor**.

MCU Chair

Site list:	Remote address			
HD2000R-NIR	l72.20.1.18	Floor to Site	View site	Disconnect
DAVID9000	172.20.1.18	Floor to Site	View site	Disconnect
DAVID SCHOR	172.20.10.21	Floor to Site	View site	Disconnect

Release Floor   View Floor

Click to return the conference to Voice-Activated Switching.

20.5 Changing the Chair's View

The Chair can view the video of any site, no matter who has the floor. This selection does not affect the display at the sites, who see the possessor of the floor (unless another HD site also uses this function).

➤ **To display any site on the Chair's monitor**

❑ Click the **View Site** button next to the site whose video the Chair will see.

Click to view the video of the selected site.

➤ **To display the floor's video at the Chair's monitor**

❑ Click **View Floor**.

Press to view the floor video.

20.6   Disconnecting a Site

There are two ways of disconnecting users from a multipoint conference.

➤ **To disconnect someone from a multipoint conference**

❑ In the MCU Chair page, click the **Disconnect** button on the same line as the site that you want to remove.

Click **Disconnect** on the line of the site that you want to remove from the conference.

-or-

1. On the left side of the screen, click <**Hang up**. A list of sites appears.

2. Click **Disconnect** next to the site you want to disconnect.

Click **Disconnect** next to the site you want to disconnect.

20.7   Ending the Multipoint Conference

➤ **To end the multipoint conference**

1. On the left side of the screen, click <**Hang up**. A list of sites appears.

2. Click **Disconnect All**.

Click to end the multipoint conference.

21 MULTIPOINT CONFERENCING - PARTICIPATING AS A SITE

During a multipoint conference using an HD's embedded MCU, you can control Site functions through the Web-based Remote Management. When it enters a multipoint conference, a site views the video of the Chair. If you control a site, you can request/return the floor, and view the video of any other participant.

The MCU Site page displays the participants in the conference, the holder of the floor, and available commands.
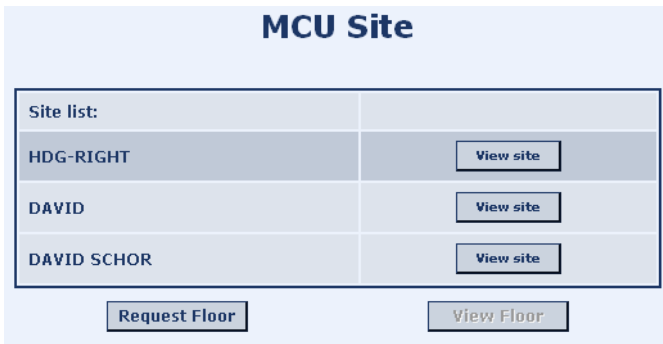
21.1 Requesting the Floor

To send your site's video and audio to the other participants, request the floor.

➤ **To request the floor**

❑ Click **Request Floor**.

Click to request the floor from the Chair.
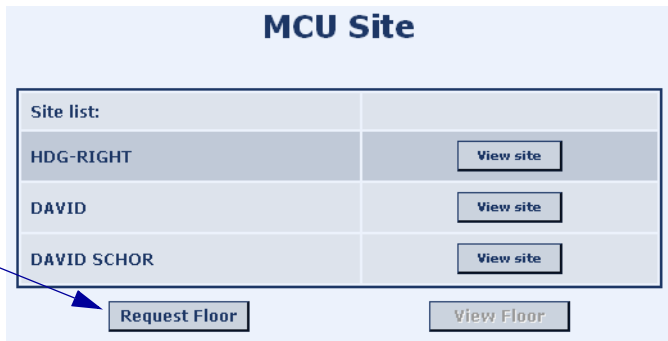
21.2 Releasing the Floor

After your site finishes its turn with the floor, return it to the Chair.

➤ **To release the floor**

❑ Click **Release Floor**.
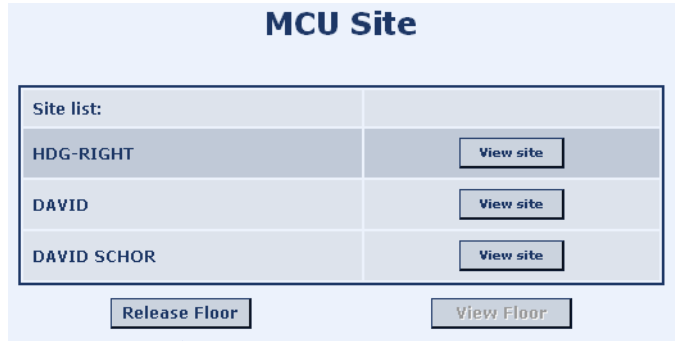
Click to return the floor to the Chair.

21.3   Changing the Site's View

A site can view the video of any other site or the Chair, no matter who has the floor. This selection does not affect the display at the sites, who see the possessor of the floor (unless another HD site also uses this function).

➤ **To display any site's video on your site's monitor**

❏   Click **View Site** next to the site whose video you want to display.

Click to display the video of the corresponding site.
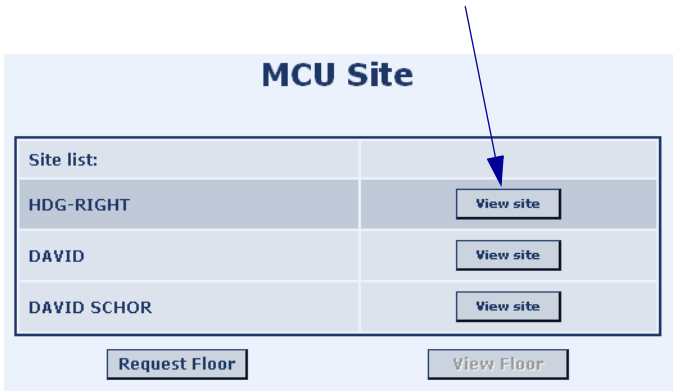
➤ **To display the video of the site who has the floor**

❏   Click **View Floor**.
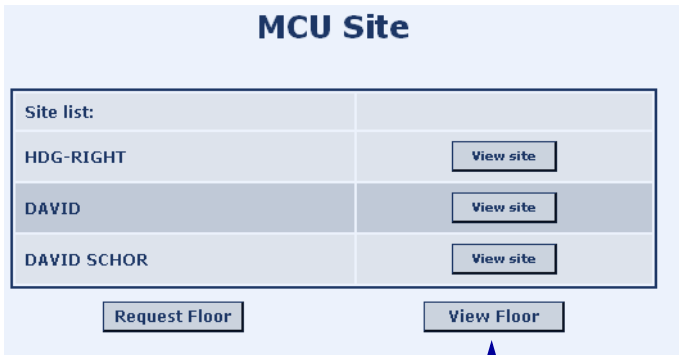
Click to view the floor video.

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