Multimedia Conferencing Unit

The MCU 4200 Series Multimedia Conferencing Unit is a technologically advanced multipoint solution – designed to bring you the highest possible voice and video conferencing quality available on IP today – wrapped in a versatile, easy to use interface.

The product is packed with power – utilizing the latest video technology to process an unprecedented number of simultaneous high bandwidth video streams.

Accessibility
The MCU 4200 is easy to use with features that are accessible to everyone. Use your video remote control or an Internet browser to:
- Create a conference
- Choose a conference to attend (audio participants use DTMF tones)
- Easily adjust the layout of your view to suit your requirements
- Select which sites you wish to view

The MCU 4200 Series supports any bandwidth for any connection – all you need to select is the start time and duration.

Streaming Video
Reach a broader audience – stream your conference over your intranet or the public Internet. The MCU 4200 Series operates with QuickTime™ to offer viewing at multiple speeds to ensure that everyone can comfortably watch the event. Attendees simply click on a URL to view the conference. Password protection is also supported.

High Bandwidth Conferences
Dedicated video processing allows each conference participant to have their own high bandwidth view of the conference without reducing the number of participants supported.

Each participant can send and receive up to 4 Mbit/s (or as low as 56 kbit/s). The MCU 4200 will automatically reduce the bandwidth and resolution for participants who have connected over slower links, while maintaining high quality for other users.
**Three High Capacity Versions**

<table>
<thead>
<tr>
<th>Model</th>
<th>Video participants Up to 2 Mbit/s</th>
<th>Additional audio participants</th>
<th>Maximum conferences</th>
<th>Video streaming Unicast / Multicast</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCU 4210</td>
<td>20</td>
<td>20</td>
<td>10</td>
<td>100 / unlimited</td>
</tr>
<tr>
<td>MCU 4220</td>
<td>40</td>
<td>40</td>
<td>20</td>
<td>200 / unlimited</td>
</tr>
<tr>
<td>MCU 4240</td>
<td>80</td>
<td>80</td>
<td>40</td>
<td>400 / unlimited</td>
</tr>
</tbody>
</table>

Using high bandwidth and Advanced (symmetric) Continuous Presence does not reduce the number of sites supported.

Upgrades to MCU 4220 and MCU 4240 available.

**Video Standards**

- H.261, H.263, H.263++, H.264

**Video Resolution**

- QCIF, CIF, 4CIF, VGA

**Frame Rates**

Up to 30 frames per second in all conference modes.

**Audio Standards**


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**Audio Standards**


**Transcoding and Transrating**

Automatic audio and video transcoding and transcoding on all video calls. Any bandwidth, any resolution, any video or audio codec can be used on any video call within the same conference.

**Streaming Video**

Embedded streaming server

- H.261, H.263+, H.263++, MPEG4 video

Independent choice of bandwidth

Viewed using RealPlayer™ or QuickTime™

Embedded via web interface or stand alone via URL

Unicast and Multicast

**MCU Features**

H.323 dial in, or dial out from web server

- Stand alone or using Gatekeeper

Configurable audio and video Auto Attendant

Advanced Continuous Presence as standard

Automatic selection of best layout

Individual layout selection using remote control or web pages

Conference-wide layout selection

36 custom layouts

Active speaker selection using remote control or voice activated

Floor assignment through web page

Far end camera control tunnelling using remote control or web

Text identification of sites

On-screen text messaging to individual or all sites

Embedded conference scheduling

Ad hoc conferences

Presentation mode: add slides from PC using VNC™

Preview of conference and individual camera on web pages

Uploadable bitmaps for audio participants

Video association for IP and traditional PBXs

Dual video using H.239

**Embedded Web Server**

Complete configuration, control and monitoring of the system and conferences

**Audio Features**

- Audio mixing at wide band

- Auto Attendant voice prompts

- Automatic Gain Control, adjustable gain, power indication, individual audio mute using web pages

**System Management**

Management via embedded web server

- RS-232 for local control and diagnostics

- Telnet and Syslog for diagnostics

Configurable event logs and full H.323 decoding

Backup to network or Compact Flash

Secure upgrades through Ethernet or Compact Flash

COR records

SNMP, XML API

**Quality of Service**

- DSCP, IP Precedence, TOS

**Security Features**

- Administrator, User and Guest passwords

- Password protected conferences

- DTMF passwords

- Secure non PC hardware and operating system

- Hardware AES encryption, 128 bit key

- Secure firewall traversal using Dual Ethernet

**Interfaces**

- 2 x RJ45 Ethernet, 10/100/1000 Mbit/s full/half duplex, manual or auto sensing

- RJ45 serial port

- Compact Flash socket

- 39 status LEDs

**Environmental Data**

- Operating temperature 0°C to 35°C ambient

- Relative humidity below 90%

**Physical Dimensions**

- Height 1.73", 44 mm (1U)

- Width 17.2", 437 mm

- Depth 12.3", 312 mm

- Weight 9 lbs, 4kg

- 19" rack mountable (kit supplied) or stand-alone

- Power 100-240 VAC, 50/60Hz

- 110W max power consumption

**Approvals and Compliance**

- European safety: EN 60950:2000

- USA, Canada safety: UL 60950 Third Edition, CAN/CSA-C22.2 No. 60950-00

- EMC: EN55022 class B, EN61000-6-2, EN61000-4-2, -3, -4, -5, -6, -11, FCC Part 15 class A

- CE marked

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