

MCU 4200 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.

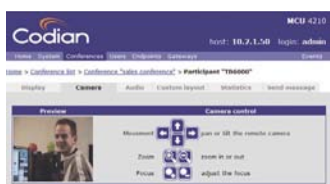
Streaming Video

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 2 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.



Enterprise IP MCU Models

Model	Video participants Up to 2 Mbit/s per site	Additional audio participants	Video streaming Unicast / Multicast
MCU-4205	12	12	60 / unlimited
MCU-4210	20	20	100 / unlimited
MCU-4220	40	40	200 / unlimited

Software Options

VFO-4200	Video Firewall Option
HRO-4205 / HRO-4210 / HRO-4420	High Resolution Option - 12 / 20 / 40 ports of 4CIF / 4SIF or greater resolution

Using high bandwidth, 4CIF / 4SIF, H.264 or Advanced (symmetric) Continuous Presence does not reduce the number of sites supported. There can be any number of conferences up to the limit on the number of participants.

Video Standards

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

Video Resolution

QCIF, QSIF, CIF, SIF, 4CIF, 4SIF, VGA, SVGA, XGA

Frame Rates

Up to 30 frames per second in all conference modes.

Audio Standards

G.711, G.722, G.722.1^α, G.728, G.729

Protocols

H.323 v4, H.239^α, VNC, Telnet, RTP, HTTP, DHCP, SIP^α

Bandwidth

Up to 2 Mbit/s for each site in all conference modes including Advanced (symmetric) Continuous Presence and all video codecs including H.264

Transcoding and Transrating

Automatic audio and video transcoding and transrating 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++ video
Independent choice of bandwidth
Viewed using RealPlayer™ or QuickTime™
Embedded via web interface or standalone via URL
Unicast and Multicast

MCU Features

H.323 dial in, or dial out from web server
Standalone 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
42 custom layouts
Widescreen (16:9) support
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^α

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
CDR records, SNMP^α, XML API^α

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^α
Video Firewall option using 2nd Ethernet port

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 60950-1:2001
USA safety: UL 60950-1 First Edition
Canada safety: CSA 60950-1-03
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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^α Not currently available, will require a software update