

# AETHRA MCU+

AETHRA MCU-12+ / AETHRA MCU-24+ (SCOPIA™ TECHNOLOGY BASED)

**Advanced audio-video processing**

Multipoint conferencing unit with full audio, video and rate transcoding

**ISDN support**

ISDN Gateway for H.320 connectivity (included with specific AETHRA MCU+ models)

**Aethra Director Suite**

H.323 gatekeeper for complete call control and dial plan schemes with Network Management for conference scheduling and management of infrastructure elements and endpoints



AETHRA MCU+ is a complete visual communications solution, offering multipoint conferencing with advanced and more powerful video processing for H.323, SIP and ISDN networks. The AETHRA DIRECTOR SUITE is an AETHRA MCU+ management package and includes full gatekeeper functionality, complete scheduling capabilities, comprehensive control and monitoring of your network.

**Complete videoconferencing solution**

The MCU+ strengthens Aethra's Unified Collaboration offering, providing a complete point-to-point and multipoint conferencing solution including gateway functionality, gatekeeper call control and effective management of network resources for the ultimate visual communications experience.

**End-to-end connectivity**

AETHRA MCU+ is a mature and market-proven solution enabling connectivity of all videoconferencing systems regardless of the protocols (H.323, SIP or H.320) or devices (room systems, desktop and PSTN and mobile phones).

**Complete audio and video processing**

All AETHRA MCU+ ports support audio and video transcoding and transrating (speed matching).

Each user enjoys the full benefits of advanced video processing including: advanced CP layouts, rate matching, text and frame overlay and active speaker indication. QualiVision™ maintains video quality for networks with packet loss, assuring best video quality at all times.

**Centralized network management**

AETHRA MCU+ offers a global, centralized view of the entire visual communications network. Administrators can easily control, configure, and manage their video network devices and endpoints.

**Scalable and distributed for right-sized capacity**

AETHRA MCU+ Series modules can be combined to form a highly scalable, centralized or distributed conferencing solution.

Let your video network infrastructure grow according to your needs.

# AETHRA MCU+

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## Technical Specifications

### Video and Audio Support

- Protocols H.323, SIP  
H.320 and 3G/H.324M (via GW)
- Audio Codecs G.711, G.722, G.722.1,  
G.723.1, G.728, G.729A
- Video Codecs H.261, H.263, H.264
- Video Resolution QCIF, CIF, 4CIF, VGA,  
SVGA, XGA and NTSC  
modes

### Network protocols

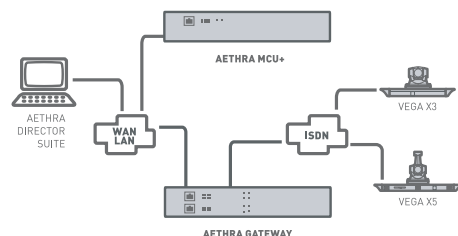
- H.239 and Dual Video for presentation sharing
- H.235 Encryption AES and DES (No capacity lost up to 768 kbps Port capacity drops by half at higher rates)
- T.120 for application sharing, whiteboard illustrations and text messaging (optional).

### Video Quality

- QualiVision™ for highly improved, standard-based video quality in networks with packet loss
- QoS support with DiffServ, TOS, IP Precedence

### Advanced Video Processing for all ports

- Continuous Presence, displaying up to 16 conference participants on one screen
- Video Transcoding (H.261, H.263, H.264)
- Rate Matching
- ISDN Downspeeding (through GW)
- Text overlay (e.g. conference participant's name)
- 26 layout options including Picture-in-Picture
- Dynamic rollover
- Lecture mode



### Gatekeeper Functionality

- User configurable dial plan (Master-Slave Gatekeeper support)
- Authentication and directory service support with the H.350 standard

### Network Management and Conference scheduling

- Complete network status and statistics including endpoint information
- Network-wide view of calls and conferences
- Element tree, map, table and customized views
- Display of events and errors received from elements for error management
- Easy Web-based scheduling and ad-hoc videoconferencing
- Microsoft® Outlook scheduling option for complete office integration
- Meeting templates for personalized and easy scheduling

### Physical Dimensions

- 19-inch, rack-mountable closed unit of 1U height (4.5 cm)

### Environmental Requirements

- Operating temperature: 0°C to 40°C (32°F to 104°F).
- Storage temperature: 25°C to 70°C (-13°F to 158°F), ambient
- Relative humidity: 5% to 90% non-condensing

### Power Module

- Input 100-240 VAC Autodetect 50/60Hz

### Warranty

- One year return-to-factory
- Extended warranties and support services are available on request

## AETHRA MCU+ Specifications

	AETHRA MCU-12+*		AETHRA MCU-24+*	
Form factor				
Voice-Activated or Continuous Presence	Call Bandwidth	Number of Sessions	Call Bandwidth	Number of Sessions
	128 kbps	↑	128 kbps	↑
	384 kbps		384 kbps	
	512 kbps	12	512 kbps	24
	768 kbps		768 kbps	
	1.5 Mbps	↓	1.5 Mbps	↓
	2.0 Mbps		2.0 Mbps	
Audio only	24	Audio only	48	
AeDS Management (Scheduler, Gatekeeper and Network Manager)	25 Terminal/Ports		50 Terminal/Ports	

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