

High level quality video communication

# AVC 8500™

## Adaptable

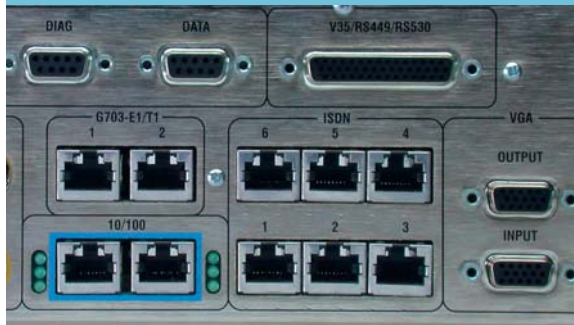
Flexible codec for customized installations in conference rooms of any size

## Powerful Interaction

Delivers rich media collaboration with the possibility of connecting to various types of devices (video projectors, PCs, amplification systems, telecameras)

## Mixed Multipoint

The built-in MCU connects up to 8 sites in mixed mode ISDN and IP



Aethra® created this codec solution for customized videoconferencing installations with its aim to offer professional communication, integrating the highest quality audio, video and data.

## Multiple Network Connectivity

Multiple network connections are supported, including: ISDN (BRI and PRI), IP (H.323 and SIP) and dedicated networks (X.21, V.35, RS366, RS449).

## Simultaneous Dual-Stream Video

Convenient XGA input and output ports provide one-step PC plug-in simultaneous dual-stream video and live PC presentations with enhanced images thanks to the built-in Dual Video function.

## Upgrades

It is possible to select the available functions in the AVC 8500 SUPERSET to customize the start up configuration AVC 8500 ENTRY.

## Modifiable User Interface

The codec's graphic interface comes in different layouts and colours.

## Technical Specifications

### Supported Standards

- ITU-T H.320 ISDN, leased networks
- ITU-T H.323 IP networks
- IETF-SIP (RFC3261) IP networks
- PPPoE
- Video H.261, H.263+, H.264, H.239, H.241, G.711, G.728, G.722, G.722.1, MPEG4 AAC-LD
- Audio G.711, G.728, G.722, G.722.1, MPEG4 AAC-LD
- Data T.120
- LDAP H.350
- MCU compatibility H.243, H.231

### Transmission

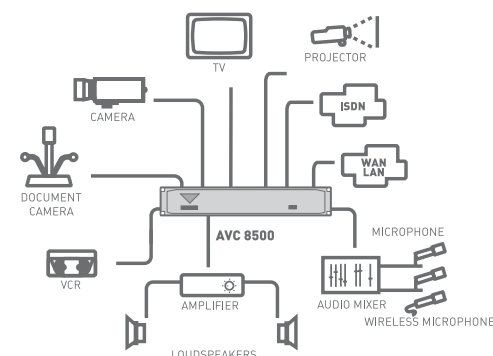
- Bit rate 56 kbps ÷ 384 kbps over ISDN BRI  
56 kbps ÷ 768 kbps over ISDN BRI (option)  
56 kbps ÷ 2 Mbps over ISDN PRI\* (option)  
64 kbps ÷ 4 Mbps over IP (H323/SIP)  
Asymmetric rates  
56 kbps ÷ 2 Mbps over V.35/Leased
- \* in North America ISDN PRI/T1 at 1544 kbps (ANSI T1 recommendations)
- Simultaneous video motion coding and PC presentations from the XGA input

### Video

- Frame rate 15 frames per second @ 56 kbps - 128 kbps  
30 frames per second @ 168 kbps - 4 Mbps  
4CIF 704 x 576 pixels  
FCIF 352 x 288 pixels  
QCIF 176 x 144 pixels  
4CIF 704 x 576 pixels for still images (H.261 Annex D)  
4SIF 704 x 480 pixels  
SIF 352 x 240 pixels  
QSIF 176 x 120 pixels  
4SIF 704 x 480 pixels for still images (H.261 Annex D)  
Up to 1024 x 768 pixels over XGA in H.263
- Remote camera control H.281 (H.320 - H.323)

### Audio

- | Audio   | Band          | Bit rate      |
|---------|---------------|---------------|
| G.711   | 300 ÷ 3400 Hz | 48/56/64 kbps |
| G.728   | 50 ÷ 3400 Hz  | 16 kbps       |
| G.722   | 50 ÷ 7000 Hz  | 48/56/64 kbps |
| G.722.1 | 50 ÷ 7000 Hz  | 24/32 kbps    |
| AAC-LD  | 50 ÷ 14000 Hz | 48/56/64 kbps |
- Echo cancellation Full-duplex
- Adaptive post filtering
- Automatic Gain Control (AGC)
- Automatic Noise Suppression



### Hi-Band Digital Microphone Pod

- Range 360°
- Response 50 ÷ 14000 Hz
- Microphones 3
- Mute button
- Up to 2 pods in a daisy-chain configuration

### Supported Monitor

- Format PAL, NTSC, HighDef
- Single, Dual monitor, HighDef
- PIP and PAP function
- 16:9
- Dual Monitor Emulation

### Network Interfaces

- ISDN
  - 3 BRI with integrated channel aggregator 3 RJ-45
  - 6 BRI with integrated channel aggregator (option) 6 RJ-45
  - 1 PRI E1/T1 with integrated channel aggregator (option) 1 RJ-45
- Ethernet
  - 2-Port 10/100BASE-T full-duplex with integrated switch Ethernet 2 RJ-45
- Leased networks
  - X.21/V.35/RS366/RS449 (option) 44pin Hi/Den
  - G.703 (option) 1 RJ-45

### Network Protocols

- TELNET, HTTP, SNMP, DNS, DHCP, RTP/RTCP, TCP/UDP, ARP

### Network Features

- Differentiated Service (DIFFSERV), IP Precedence, IP Type of Service (ToS), Auto Gatekeeper Discovery, Clever Packets Management (AeCPM)

### Audio/Video Interfaces

- Video inputs
  - 4xCamera S-video (Mini-DIN)
  - 3xCamera Composite (BNC)
  - XGA In DB 15 Hi/Den
- Video outputs
  - Monitor 1 Composite (BNC), S-video (Mini-DIN)
  - Monitor 2 Composite (BNC), S-video (Mini-DIN)
  - Monitor 3 Composite (BNC), S-video (Mini-DIN)
  - XGA Out DB 15 Hi/Den

- Audio inputs
 

Connection	Level	Connector
2xPod mic. 360°	Dig.	RJ-11 6/6
3xMic.	Mic.	XLR
3xAudio In	Line	RCA

- Audio outputs
 

Connection	Level	Connector
4xAudio Out	Line	RCA

### HighDef (XGA)

- Input VGA, SVGA, XGA
- Output VGA, SVGA, XGA

### Auxiliary Interfaces

- Data RS232 DB9
- Diagnostics RS232 DB9
- VISCA RS232 Mini-DIN 8-pin
- PAN&TILT DB9
- Infrared extension Stereo jack 3.5 mm
- PC card PCMCIA, type II for Wi-Fi card

### Closed Captioning/Text Chat

- T.140 text chat, available from Web

### User Interface

- Multilingual on-screen graphic user interface
- User selectable languages: Italian, English, French, Spanish, German, Portuguese, Norwegian, Swedish, Russian, Czechoslovakian, Hungarian, Polish, Finnish, Simplified Chinese, Traditional Chinese, Japanese, Korean
- Infrared remote control for full function control
- Contextual help
- Diagnostics and management functions
- Call progress monitoring
- Supports AMX™ or Crestron™
- Customizable Graphic User Interface
- Web streaming function: UNICAST and MULTICAST compatible with QuickTime™

### Multipoint Function (option)

- Integrated MCU H.320, H.323 and SIP mixed mode
  - 8 participants @ 256 kbps
  - 6 participants @ 384 kbps
  - 5 participants @ 512 kbps
  - 4 participants @ 768 kbps
  - 3 participants @ 1 Mbps
- Compatible with analog and mobile networks
- Video coding H.261, H.263++  
G.711, G.722, G.722.1  
G.728
- Audio coding H.243
- Chair control
- Dial-In/Dial-Out capabilities
- Continuous Presence 10 Layouts
- Encryption
- Dual video H.239 from any site

### Encryption

- AES encryption standard H.233, H.234, H.235
- NIST (National Institute of Standards & Technology) certified

### Web Management

All the configuration, call, diagnostics and management functions are accessible using the following web browsers: Microsoft® Internet Explorer™, Netscape Navigator™

### Remote Diagnostics and Management

	Local	Web Browser	SNMP
Self test	Yes	Yes	Yes
Diagnostics	Yes	Yes	Yes
Configuration	Yes	Yes	Yes
Call	Yes	Yes	Yes
Error tracking	Yes	Yes	Yes

### Integrated Presentation

- Supported applications Microsoft® PowerPoint®
- Multimedia support T.120

### Power Supply

- 100-240 Vac 50-60 Hz 1.5 A Max

### Dimensions

- AVC 8500 19" 2U rack
- Width 44 cm (17.5")
- Height 9 cm (3.6")
- Depth 25 cm (10")

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