

High level quality video communication

AVC 8500™

Adaptable

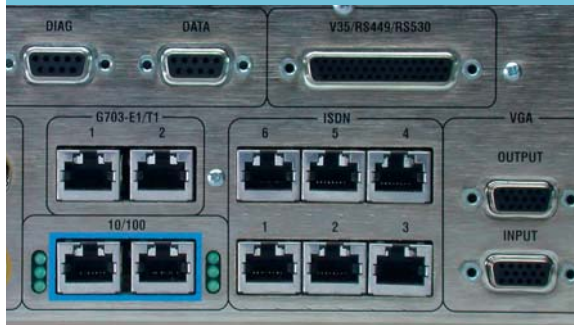
Flexible codec for customized installations in conference rooms of any size

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 9 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).

Wideband audio

The first codec to support both 14-kHz (ITU and ISO) wideband audio codecs adopted in videoconferencing.

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.

Multipurpose

The AVC 8500 can be integrated into existing conference rooms with audio and video facilities or customized solutions. It can also be implemented in vertical applications.

Upgrades

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

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 G.722.1 Annex C (v11), MPEG4 AAC-LD
• Audio	T.120 H.350
• 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
56 kbps ÷ 2 Mbps over ISDN PRI*
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

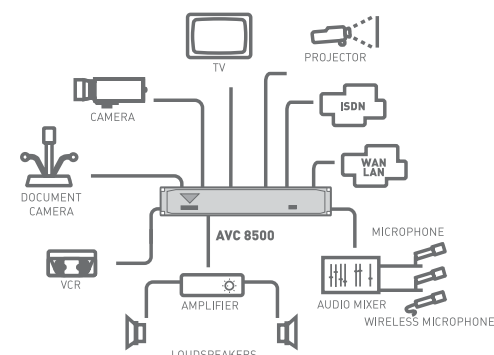
Video

- Frame rate 15 frames per second
@ 56 kbps - 128 kbps
30 frames per second
@ 168 kbps - 4 Mbps
- Video resolution 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
G.722.1 Annex C	50 ÷ 14000 Hz	24/32/48 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
Main camera S-video (Mini-DIN) dedicated
3xCamera S-video (Mini-DIN)
3xCamera Composite (BNC)
XGA In DVI-I
- 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 DVI-I

- 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, WXGA, SXGA
- Output VGA, SVGA, XGA, WXGA, SXGA

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
up to 8 participants
up to 9 participants (v11)
- Compatible with analog and mobile networks
- Video coding H.261, H.263 ++, H.264 (v11)
- Audio coding G.711, G.722, G.722.1
G.728
- Chair control H.243
- 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	
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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