

High level quality video communication

AVC 500™

Scalable Solution

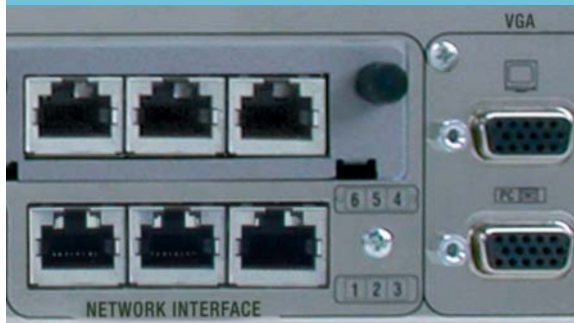
Flexible codec for customized installations in conference rooms of any size

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



This rack-mount codec enables customised videoconferencing applications regardless of room size.

Thanks to multiple audio, video and network connections, it creates a fully interactive business environment from your local audio and video equipment.

Multipoint Conferencing

AVC 500™ is a cutting-edge rack-mount codec that provides the highest quality videoconferencing for customized deployment in rooms of all sizes. AVC 500 provides XGA (DVI-I) input and output ports for simultaneous dual-stream video for live PC presentations. The integrated Multipoint Conferencing Unit (MCU) connects up to 9 sites in mixed mode (ISDN, IP-H.323 and IP-SIP), with convenient dial-out and dial-in (Meet Me) configuration. Continuous Presence feature enables participants at all sites to view each other simultaneously.

Multiple Network Connectivity

Multiple network connections are supported, including: ISDN BRI and PRI, IP-H.323, IP-SIP and leased networks.

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.

Multipurpose

The AVC 500 can be integrated into existing conference rooms with audio and video facilities or customized solutions. It can also be implemented in vertical applications.

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
- Audio G.711, G.728, G.722, G.722.1, G.722.1 Annex C (v11), MPEG4 AAC-LD
- Data T.120
- LDAP H.350
- MCU compatibility H.243, H.231

Transmission

- Bit rate 56 kbps ÷ 768 kbps over ISDN BRI¹
- 56 kbps ÷ 2 Mbps over ISDN PRI^{**2}
- 64 kbps ÷ 4 Mbps over IP (H323/SIP)
- Asymmetric rates
- 56 kbps ÷ 2 Mbps over V.35/Leased²
- ¹ Up to 384 kbps with sw option, up to 768 kbps with hw option
- ² With hw option
- ^{**}in North America ISDN PRI/T1 at 1544 kbps (ANSI T1 recommendations)
- Simultaneous video motion coding and PC presentations from the XGA input

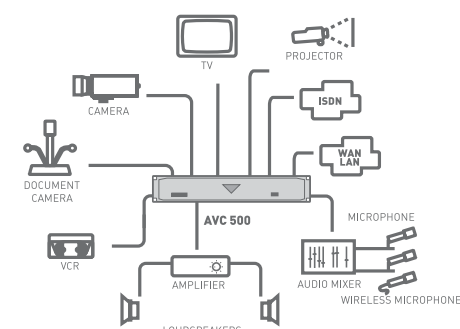
Video

- 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 240 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 pixel
- 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

- Basic version
 - Ethernet
 - 2-Port 10/100BASE-T full-duplex with integrated switch Ethernet 2 RJ-45
- Optional ISDN
 - 1/6 BRI with integrated channel aggregator 1/6 RJ-45
 - or 1 E1/T1 PRI with integrated channel aggregator 1 RJ-45
 - or Leased networks
 - X.21/V.35/RS366/RS449 44 pin Hi/Den
 - or G.703 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
 - 2xCamera Composite (RCA)
 - 2xCamera S-video (Mini-DIN)
 - XGA In DVI-I
- Video outputs
 - Monitor 1 Composite (RCA)
 - S-video (Mini-DIN)
 - Monitor 2 S-video (Mini-DIN) with monitor detect
 - Video Out Composite (RCA)
 - XGA Out DVI-I

- Audio inputs

Connection	Level	Connector
2xPod mic. 360°	Dig.	RJ-11 6/6
Aux. mic.	Mic	Stereo jack 3.5 mm
2xAudio In	Line	RCA

- Audio outputs

Connection	Level	Connector
2xAudio Out	Line	RCA

HighDef (XGA)

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

Auxiliary Interfaces

- Data RS232 Mini-DIN 8-pin with DB9 adapter
- Diagnostics RS232 Mini-DIN 8-pin
- VISCA RS232 Mini-DIN 8-pin supports Canon or Sony, aux PTZ camera
- PAN&TILT DB9
- PC card 1 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
- Encryption
- H.239 Dual-video 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 500

Width	44 cm (17.31")
Height	5.7 cm (2.28")
Depth	21 cm (8.26")

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