

High level quality video communication

# AVC 500™

## Scalable Solution

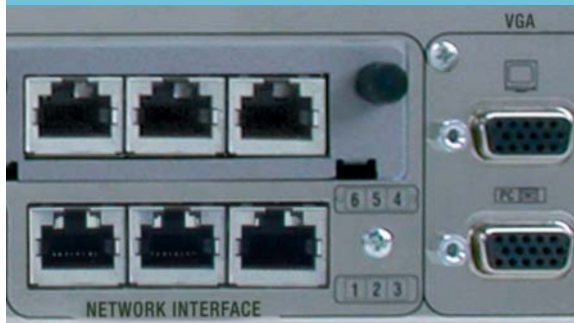
Flexible codec for customized installations in conference rooms of any size

## 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 BRI <sup>1</sup> 56 kbps ÷ 2 Mbps over ISDN PRI <sup>**2</sup> 64 kbps ÷ 4 Mbps over IP (H323/SIP) Asymmetric rates 56 kbps ÷ 2 Mbps over V.35/Leased <sup>2</sup>
<sup>1</sup> Up to 384 kbps with sw option, up to 768 kbps with hw option	
<sup>2</sup> With hw option	
<sup>**</sup> in North America ISDN PRI/T1 at 1544 kbps (ANSI T1 recommendations)	
• Simultaneous video motion coding and PC presentations from the XGA input	

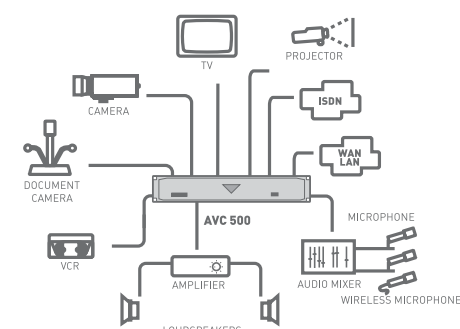
### Video

• 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 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
  - Composite (RCA)
  - 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, H.243
- Chair control
- 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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