

AVT7000

TELECONFERENCER



PRODUCT OVERVIEW

The AVT7000 Audio for Video Teleconferencer is specifically designed for videoconferencing applications that require the highest audio quality and full duplex operation. The AVT7000 is a four wire echo canceller that connects directly to a videoconferencing CODEC and to the room audio system. It may also be connected directly to an external microphone mixer and power amplifier. The AVT7000 can be used with Gentner's MPA II, a combination eight channel automatic microphone mixer and power amplifier. An external source such as a VCR or cassette tape player may be connected to the unit for record and playback of audio.

Callers can be added to a conference using the AVT7000's bridge port. Either a Gentner DH1A Digital Hybrid or TH120 TeleHybrid is used for this purpose. The DH1A provides connection directly to an analog telephone line while the TH120 provides connection to most analog or digital telephone sets.

The AVT7000 utilizes Gentner's proprietary DSP (Digital Signal Processing)

echo cancellation and audio processing technology that delivers the most clear and natural audio to your video conference. Upon installation, the unit adapts to room conditions. Gentner's continuous adaptation processes ensure crystal clear, echo free audio for your application, regardless of changing acoustic conditions.

Setup and operation are simple and straight forward. All audio levels are adjustable to match your system. You can operate the unit from the front panel, utilize an optional wired remote control, or use a PC connected to the RS-232 serial port.

The AVT7000 is designed to work with your audio system and these Gentner products:

- MPA II mixer/power amplifier
- Wired remote control
- Omni and unidirectional microphones
- Speakers
- Assistive listening products

Features

- High quality, full duplex audio
- Automatic room adaptation
- 7 kHz bandwidth
- "Bridge" port for phone add
- Aux audio in and out
- All audio levels adjustable
- Parallel or RS-232 control

Benefits

- Designed specifically for videoconferencing/distance learning applications
- Transparent, natural sounding audio
- Simple to set up and operate
- Highly reliable operation

 **Gentner**

800.945.7730
801.975.7200

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SPECIFICATIONS

Physical Dimensions (W/H/D):

19" x 1.75" x 10"
48.3 x 4.45 x 25.4 cm

Weight:

10 lbs. /4.5 kg dry
13 lbs. /5.9 kg shipping

Power Requirements:

85-240Vac; 50/60Hz

Fuse:

2 amp, 250Vac

Frequency Response:

50Hz to 7.0kHz; ± 1 dB
in 4 wire/video mode

Echo Cancellation Span:

112 milliseconds

Operating Temperature:

32° to 100° F

Connectors:

Remote: DB-15 female

Inputs: 3-pin female XLR (4 wire/video
receive and room transmit)

Outputs: 3-pin male XLR (4 wire/video
transmit and room receive)

Mic Input: DB-9 male

Speaker Output: Binding post

Tape Record/Tape Play:

Phono (RCA)

ARCHITECTURAL SPECS

The audio for video teleconferencer shall provide direct, balanced line level connections to the video CODEC and the room audio system. Unbalanced auxiliary input and output connections shall also be provided. All levels shall be adjustable by means of trim pots. It shall be capable of being remotely controlled by both parallel and serial (RS232) devices. Telephone bridge capability shall be provided for audio and control connections to an external telephone hybrid. Caller audio level shall be adjusted by means of a volume up and a volume down button. Caller audio shall be muted by the user by means of a privacy button.

The interface shall employ Digital Signal Processing (DSP) to remove acoustic echoes. It shall supply at least 30 dB of cancellation and/or 18dB of suppression of the acoustic echo. The acoustic echo

cancellation span shall be at least 112 milliseconds. The unit shall be trained on setup by a noise burst and shall automatically adapt to changes in the acoustic environment. The audio frequency response, noise and distortion shall be: 50Hz to 7kHz ± 1 dB, no greater than -55dBm and no less than .5%.

The Gentner AVT7000 is specified.

Applications:

- Distance Learning
- Teletraining/Telemedicine
- Courtrooms
- Conference Rooms/Boardrooms
- Hotels
- House of Worship



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Try our conference Call service:
1-800-LETS MEET

Send this document to any fax machine with Gentner's Fax-On-Demand: 800.695.8110 Doc. #2003

WE PUT THE WORLD ON SPEAKING TERMS™

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A black Pioneer AVTT100 receiver with a silver faceplate. The faceplate features various buttons and controls: a 'SOURCE' button with 'TV', 'DVD', and 'VIDEO' sub-buttons; a '4 WIRE VIDEO' button; a 'TRANSPORT' button with 'PLAY', 'PAUSE', and 'STOP' sub-buttons; an 'AFC' button; an 'AUX' button; a '4 WIRE VIDEO' button; a 'PUSH OPEN' button; a 'POWER' button; a 'VOLUME' knob; and a 'MUTE' button. The Pioneer logo is on the left, and the model number 'AVTT100' is on the right.

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Physical Dimensions (W/H/D):

19" x 1.75" x 10"
48.3 x 4.45 x 25.4 cm

Weight:

10 lbs./ 4.5 kg dry
13 lbs./ 5.9 kg shipping

Power Requirements:

85-240Vac; 50/60Hz

Fuse:

2 amp, 250 Vac

Frequency Response:

50Hz to 7.0kHz; ± 1 dB
in 4 wire/video mode

Maximum Power Output:

1 x 3 watts into 40ohms,
continuous, adjustable

Microphone Input:

-50dBu, adjustable; 1.5kohms, balanced; 15V phantom power

Echo Cancellation Span:

112 milliseconds

Operating Temperature:

32° to 100° F

Connectors:

Remote: DB-15 female

RS232: DB-9 female (provides control of front panel function and simple diagnostics)

Inputs: 3-pin female XLR (4 wire/video receive and room transmit)

Outputs: 3-pin male XLR (4 wire/video transmit and room receive)

Mic Input: DB-9 male

Speaker Output: Binding post

Tape Record/Tape Play:

Phono (RCA)

ARCHITECTURAL SPECS

The audio for video teleconferencer shall provide direct, balanced line level connections to the video CODEC and the room audio system. Unbalanced auxiliary input and output connections shall also be provided. All levels shall be adjustable by means of trim pots. The unit will provide the capacity of three microphone inputs and an eight Ohm, three watt speaker amplifier. It shall be capable of being remotely controlled by both parallel and serial (RS232) devices.

Telephone bridge capability shall be provided for audio and control connections to an external telephone hybrid. Caller audio level shall be adjusted by means of a volume up and a volume down button. Caller audio shall be muted by the user by means of a privacy button.

The interface shall employ Digital Signal Processing (DSP) to remove acoustic echoes. It shall supply at least 30dB of

cancellation and/or 18dB of suppression of the acoustic echo. The acoustic echo canceller span shall be at least 112 milliseconds. The unit shall be trained on setup by a noise burst and shall automatically adapt to changes in the acoustic environment. The audio frequency response, noise and distortion shall be: 50Hz to 7kHz ± 1 dB, no greater than -55dBm and no less than .5%.

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