

GT724

TELECONFERENCER



PRODUCT OVERVIEW

The GT724 Group Teleconferencer is specifically designed as the audio interface for videoconferences that require simultaneous audioconferencing via telephone.

The GT724 provides audio for video connections (4 wire) at 7 kHz bandwidth, which is required by most video CODEC systems. In addition, the GT724 features an integrated telephone hybrid (2 wire) to mix two-way telephone audio with any videoconference. This integral phone add capability also known as simultaneous 2 wire/4 wire, means anyone with a telephone can be mixed into a videoconference. Among the possible participants in a "phone add" to a videoconference are traveling board members, executives and salespeople, home-bound or hospitalized individuals, and invited customers and vendors.

The GT724 is fully remote controllable. A rear panel RS-232 port provides system-wide control for popular remote control systems such as AMX and Crestron. The RS-232 port also enables access to DTMF (touch-tone) dialing to enable dialing phone numbers or issuing tones to access voice mail systems. Gentner remote diagnostics software and a modem on location provide a visual dis-

play of levels, switch settings, etc.

The GT724 includes a built-in microphone mixer and power amplifier to directly connect up to three microphones and one loudspeaker. This "one box" solution serves as the central connection for all other teleconferencing equipment including the remote control, telephone, recording devices, and video CODECs. When extra microphone and speaker coverage is needed, an external mixer/power amplifier (such as Gentner's MPA II) can be directly connected to the GT724.

The System 724 Includes:

- GT724 Group Teleconferencer
- Two omnidirectional microphones
- One wall mount professional loudspeaker
- Optional: remote control



FEATURES/BENEFITS

- DTMF (touch tone) dialing—allows user to dial phone numbers, access voice mail, pagers, etc. without a separate telephone
- Integral phone add (simultaneous 2-wire/4-wire capability)—with a push of the "telephone" button, two-way telephone audio is mixed into the videoconference
- "One box" solution—gives you a built-in power amplifier and three-channel microphone mixer
- RS-232 port—allows connection for local/remote diagnostics and custom remote control systems such as AMX and Crestron
- 7 kHz frequency response (for 4-wire audio)—provides for integration with most video teleconferencing systems and exceptional audio quality
- Completely full-duplex operation—allows people at all locations to speak simultaneously without interruption
- Expandable—for additional speaker and microphone coverage
- 100% digital audio processing—digitally eliminates acoustic echo to provide high intelligibility
- Auto answer/auto disconnect mode is available
- Privacy button—allows for private conversations

 **Gentner**

800.945.7730
801.975.7200

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SPECIFICATIONS

Dimensions (W/H/D):

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

Weight:

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

Connectors:

Power: Auto-adjusting power module
Remote: DB-15 female

Room Transmit Input:

3-pin female XLR; balanced bridging > 20k Ohms input impedance; +4dBu nominal level, adjustable

Room Receive Output:

3-pin male XLR; balanced; 500hms (designed to drive > 6000hms inputs); +4dBm nominal level, adjustable

4 Wire Transmit Output:

3-pin male XLR; balanced; 500hms (designed to drive > 6000hms inputs); -10dBm nominal level, adjustable

4 Wire Receive Input:

3-pin female XLR; balance, bridging > 20k Ohms input impedance; -10dBu nominal level, adjustable

Record Output:

Phono connector; unbalanced; 1k Ohms output impedance (designed to drive > 10k W inputs); -10dBu nominal level

Playback Input:

Phono connector; > 100hms input impedance; -10dBu nominal, adjustable

RS-232:

DB-9 female

Telco Line/Set:

RJ-11C

Power Requirements:

85-240 VAC; 50/60 Hz

Fuse:

2 amp, 250 VAC

Frequency Response:

50 Hz to 7.0 kHz; +1 dB
(4 wire/video) 300 Hz to 3.4 kHz;
+1dB with 6 dB transmit pre-emphasis (telephone)

Maximum Power Output:

1 x 5 W into 4 Ohms, continuous, adjustable via room receive adjustment on front panel

Microphone Input:

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

Echo Cancellation Span:

112 Milliseconds

Operating Temperature:

32 degrees to 100 degrees F
0 degrees to 38 degrees C

Approvals:

FCC Part 68, FCC Part 15, CSA
NRTL/C, CE

Applications:

- Audio for Videoconferencing
- Audioconferencing
- Phone add to videoconferencing (simultaneous 4-wire/2-wire)
- Distance learning
- Courtroom Teleconferencing
- Stand alone or building block for teleconferencing in larger rooms

Architectural Specifications

The audio Group Telephone and mixer/power amplifier shall provide connections to a standard 2-wire telephone line or a 4-wire circuit. It shall be able to operate in both the 2-wire and 4-wire modes simultaneously. It shall provide balanced line level and microphone level connections and shall be capable of operation with either gating or non-gating microphone mixers. It shall be capable of driving one 4 Ohm speaker with at least 5 W.

The interface shall employ Digital Signal Processing (DSP) to remove acoustic echoes. It shall supply at least 30 dB of cancellation and/or 18 dB of suppression of acoustic echo. The acoustic echo cancellation span shall be 112 milliseconds. Telephone side tone cancellation shall be at least 40 dB with a cancellation span of at least 16 milliseconds. Audio frequency response shall be from 50 Hz to 7 kHz, +/-1 dB in 4-wire/video operation, and 300 Hz to 3.4 kHz, +/-1 dB in telephone operation.

The Gentner GT724 is specified.



Gentner Communications Corporation
1825 Research Way
Salt Lake City, UT 84119 USA

800.945.7730

801.975.7200

Fax: 801.977.0087

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