

AP800

AUDIO PERFECT™ AUDIOCONFERENCING SYSTEM



PRODUCT OVERVIEW

The Audio Perfect™ 800 (AP800) provides the highest possible audio quality available for conferencing applications. The AP800 contains Distributed Echo Cancellation™ technology, microphone mixing, audio processing and matrix mixing all in a single one rack unit audioconferencing system. Simply install and configure the AP800, sit back, and let one or more AP800 units handle up to 64 microphones!

The AP800 features acoustic echo cancellation and audio processing on each automatic gating mic or line input. This technology is vastly superior to system-wide echo cancellation, because it eliminates the gating and audio processing issues that continually hamper such systems, resulting in highly reliable, clear, transparent audio for use in the most demanding environments.

Each of the unit's eight programmed inputs and the four auxiliary line inputs can compensate for loud or soft talkers using automatic gain control (AGC). It also offers channelized equalization for continuous cut or boost as well as high-pass filtering to reduce unwanted low frequency noise.

The AP800 provides extreme flexibility for your applications. Each unit provides eight processed microphone or line inputs, eight programmable outputs (programmable meaning configured with any number of inputs), four auxiliary line-level inputs and four auxiliary line-level programmable out-

puts (for CODECs, Audio Perfect™ 10's (AP10 telephone interface), external PAs, sound reinforcement, VCRs, CD players, etc.). You get the idea!

For conference applications where you need significant microphone coverage or multiple telephone line conferencing, up to eight AP800 units and 16 AP10 units can be G-Linked together using Gentner's high speed digital network bus. All G-Linked devices can be controlled and upgraded via a single RS232 connection.

Setup and configuration are simple and may be accomplished one of two ways: 1) Using the AP800's front panel "quick key setup" and LCD display, or 2) Via Gentner's Audio Perfect™ Tools (Windows 95) on a PC. Once presets are customized, you may access one of the six preset programs on the fly from a remote control panel (such as AMX or Crestron), a switch, or the unit's front panel.

So relax! The AP800 will handle your most demanding acoustic environments and routing configurations!

Applications:

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

FEATURES/BENEFITS

- Distributed Echo Cancellation™—technology on each of the eight automatic gating mic/line inputs which drastically improves overall system performance, flexibility and setup
- Truly linkable—the AP800, via the G-Link (high-speed digital bus) allows for system expansion to accommodate applications requiring up to 64 microphones—all system parameters (gating, NOM, chairman override, PA adaptive, etc.) are linked and function as one system
- Each of the eight inputs incorporate Automatic Gain Control (AGC)—compensates for loud or soft talkers
- Programmable matrix outputs—allows for simple system customization for a wide variety of applications and individual customer requirements
- Easy "plug and play" echo cancellation—easy to design, program, install and maintain
- On-the-fly configuration changes—six presets, "customizable" programs can be accessed from a remote control, switch, or front panel
- Full-duplex audio—for conferencing applications allowing absolutely clear transparent audio
- One rack unit performs the function of several external audio devices—audio functions are designed to work together as a complete audioconferencing system



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SYSTEM CONFIGURATIONS

- Number of Open Microphones (NOM)
- PA Adaptive Mode
- First Mic Priority Mode
- Last Mic Mode
- Maximum # of Mics Mode
- Ambient Level
- Gate Threshold Adjust
- Off Attenuation Adjust
- Hold Time
- Decay Rate

CHANNEL CONFIGURATIONS

Programmable microphone inputs may be configured globally or individually, including

- Input gain adjust
- Mic or line level
- Phantom power on/off
- Mute on/off
- Chairman override on/off
- High-pass filter on/off
- EQ (low, mid, high) adjustable, On/Off
- AGC on /off
- Auto gate/Manual gate/Gate override
- Adaptive ambient on/off
- AEC on/off
- AEC Reference Ref 1/Ref 2
- NLP adjust Off, soft/medium/aggressive



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SPECIFICATIONS

Options:

1. Audio Perfect™ 10 (AP10 telephone interface)
2. Audio Perfect™ Tools (setup/diagnostics software)

Dimensions (L/W/H):

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:

Auto-adjusting power module

INPUT RANGE:

100-240Vac; 50/60 Hz

POWER CONSUMPTION:

30 W, Typical

Automatic Mic/Line Inputs:

Connector: Removable terminal block connector, -55 or 0dBu nominal adjustable, balanced, bridging

IMPEDANCE: 7kOhms

FREQUENCY RESPONSE: 20Hz to 15kHz ± 2 dB

PHANTOM POWER: 24V, input selectable

NOISE: (EIN 20Hz to 15kHz) -125dB

THD: <0.1%

Non-automatic line inputs:

Connector: Removable terminal block connector, 0dBu nominal adjustable, balanced, bridging

IMPEDANCE: > 20kOhms

SNR: >65dB ref. 0dBu input, 0dBm output

THD: <0.1%

Line Outputs:

CONNECTOR: Removable terminal block connector, 0dBm nominal level adjustable, balanced

IMPEDANCE: 50 Ohms

FREQUENCY RESPONSE: 20Hz to 15kHz ± 2 dB

SNR: >65dB ref. 0dBu input, 0dBm output

THD: < 0.1%

Other Connectors:

RS232: DB9 female (DCE)
9600/19,200/38,400/57,600 baud

CONTROL/STATUS A: DB25 female,

INPUTS A: active low (pull to ground)

OUTPUTS A: Open collector, 20 V max, 40mA each

CONTROL/STATUS B: DB25 female

INPUTS B: active low (pull to ground)

OUTPUTS B: Open collector, 20 V max, 40mA each (2) + 5VDC, 100mA each

Fuse:

2 amp, 250Vac, slow blow type

Tail Time:

> 120 milliseconds, each gated input

Operating Temperature:

32 - 100°F / 0 - 38°C

Approvals:

FCC Part 15, CSA NRTL/C, CE

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