



PTX Portable Transmitter Transmitters

The Gentner PTX is a portable transmitter for assistive listening. It transmits audio to listeners equipped with portable receivers. The transmitter's small size makes it easy to clip onto a belt or slip into a pocket. It can be also be worn on a neck strap.

The PTX is perfect when a mobile transmitter is required. In educational settings, instructors use the PTX and students carry the portable receivers from class to class. Religious leaders can wear the PTX to transmit audio to individuals in their congregation. You can easily take the PTX anywhere a portable hearing assistance system is needed.

The transmitter has audio inputs for both microphone and line (e.g. TV, VCR, CD player), and the two sources may also be mixed.

The LCD display makes tuning as easy as setting your car stereo. It also indicates when batteries are low.

The PTX is designed to be reliable, easy to use, and provides excellent audio performance—all while remaining affordable.



The PTX Portable Transmitter includes a belt/pocket clip and a lavalier microphone.

Features and Benefits

- User-tunable to 37 FCC approved assistive listening channels
- Audio processing controls dynamics and maximizes voice intelligibility
- Transmitter frequency is crystal-controlled for absolute frequency control and stability
- Small size, built-in belt clip
- Wide area FM system works outdoors or in bright light with no line of sight restrictions
- Uses two AA size batteries (alkaline or Ni-Cad rechargeable types)
- Transmitter is wireless and can be used anywhere
- Recharge using the Gentner BC-10A battery charger (optional)

Applications

- Schools, educational settings with teacher/student interaction
- Speech language therapy
- Worship services
- Personal use—to take anywhere hearing assistance will be needed
- Museums

Specifications

Dimensions (LxDxH)

3.0" x 1.125" x 4.625"
7.62 x 11.75 x 2.86 cm

Weight

4 oz/112 g (dry)

Microphone Input

>10k Ω (high impedance, varies with frequency), -55dB mic input level
Connector: mini XLR

Pin 1: audio ground/RF antenna,
Pin 2: N.C., Pin 3: audio (low voltage)
Phantom power +5V supplied)

Aux Input

>3K Ω (high impedance), -10dB input level

Connector: mini jack

Pin Out: Tip: signal, Ring: ground,
Sleeve: N.C.

Automatic Gain Control Range

40dB

Signal to Noise Ratio

60dB

Transmission Type

FM

Maximum Deviation

\pm 25kHz, 50kHz total

Maximum Radiated Power

8000uV/m at 30M
(working range of 10-50 feet)

Frequency Control

Digitally synthesized, crystal controlled

Frequency Stability

0.005%

Selectable Transmit Frequencies

37 channels between 72–76MHz

Power Requirements

2 AA batteries (alkaline or Ni-Cad)

Current Consumption

TX: 300mA
Standby: 1mA

Typical Battery Life

4–5 hours with AA alkaline 600mAH batteries

Frequency Response

Mic: Custom pre-emphasis and equalization
Line: 100–10kHz, \pm 3dB

A&E Specifications

The transmitter operates in the 72–76MHz radio frequency auditory assistance band as approved by the FCC. The transmitted field strength does not exceed 80mV per meter at 3 meters. The operating frequency is user selectable by front panel controls to 37 frequencies in the 72–76MHz band.

The transmitter has six user defined presets programmed and selected using front panel controls. Broadcast frequency in use is displayed on a front panel LCD. The transmitter is registered as compliant to intentional radiator

standards with both the FCC and Industry Canada.

The transmitter does not exceed a total of 50kHz of FM deviation. Frequency stability is controlled by a crystal based frequency synthesizer with accuracy within \pm 0.005% from 0–50° C.

The transmitter has a balanced microphone level mini-XLR jack and an unbalanced line level RCA input jack. The microphone input has a switch to provide audio muting when engaged. These inputs are selected to either individually active or a mix

of both. There is an audio processing chain consisting of dynamic equalization and broadband AGC.

The transmitter is powered with two AA batteries. The front panel has a power switch which, when selected, energizes the circuitry, activates the LCD, and begins RF transmission. The transmitter is constructed of injection molded plastic and is designed for handheld use or to be belt-clipped to the operator.

The Gentner PTX is specified.