

# PTX PORTABLE TRANSMITTER

## ASSISTIVE LISTENING SYSTEMS



## PRODUCT OVERVIEW

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 also be worn on a neck strap.

The PTX is perfect when a mobile transmitter is required. For example, 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 (i.e. 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.

## FEATURES/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, 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



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### SPECIFICATIONS

Physical Dimensions (W/H/D): 3.0" x 4.625" x 1.125" 7.62 cm x 11.75 cm x 2.86 cm	Automatic Gain Control Range: 40dB	37 channels between 72-76MHz
Weight: 4 oz./112 kg dry	Signal to Noise Ratio: 60dB	Power Requirements: 2 AA batteries (alkaline or Ni-Cad)
Microphone Input: >10kOhms (high impedance, varies with frequency), -55dB mic input level, Connector: mini XLR	Transmission Type: FM	Current Consumption: TX: 300mA Standby: 1mA
Pin Out: 1: Audio ground/RF antenna, 2: N.C., 3: Audio (low voltage phantom power +5 V supplied)	Maximum Deviation: +/-25kHz, 50kHz total	Typical Battery Life: 4-5 hours with AA alkaline 600 mAH batteries
AUX Input: >3KOhms (high impedance), -10dB input level, Connector: mini jack	Maximum Radiated Power: 8000uV/m at 30M (equates to max. range of 300 ft.)	Frequency Response: Mic: Custom pre-emphasis and equalization Line: 100-10kHz, +/-3dB
Pin Out: Tip: signal, Ring: ground, Sleeve: N.C.	Frequency Control: Digitally synthesized, crystal controlled	
	Frequency Stability: 0.005%	
	Selectable Transmit Frequencies:	

### ARCHITECTURAL & ENGINEERING SPECIFICATIONS

The transmitter shall operate in the 72 - 76MHz radio frequency auditory assistance band as approved by the FCC. The transmitted field strength shall not exceed 80 millivolts per meter at 3 meters. The operating frequency shall be user selectable by front panel controls to 37 frequencies in the 72 - 76MHz band. The transmitter will have six user defined presets programmed and selected using front panel controls. Broadcast frequency in use shall be displayed on a front panel LCD. The transmitter will be registered as compliant to intentional radiator standards with both the FCC and Industry Canada.

The transmitter shall not exceed a total of 50kHz of FM deviation. Frequency stability will be controlled by a crystal based frequency synthesizer with accuracy within +/- 0.005% from 0 - 50° C.

The transmitter shall have a balanced microphone level mini-XLR jack and an unbalanced line level RCA input jack. The microphone input shall have a switch to provide audio muting when engaged. These inputs will be selected to either individually active or a mix of both. There shall be an audio processing chain consisting of dynamic equalization and broadband AGC.

The transmitter shall be powered with two AA batteries. The front panel shall have a power switch which when selected energizes the circuitry, activates the LCD, and begins RF transmission.

The transmitter shall be constructed of injection molded plastic and be designed for hand held use or to be belt-clipped to the operator.



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