



Venture-Express Transmitter Transmitters

A fully portable FM-based transmitter, the Venture-Express is ideal for applications where one person needs to transmit audio to multiple participants. From tour groups to language translation, the Venture-Express transmitter is the perfect solution for you.

Many tours are conducted in loud settings where the tour guide has a difficult time being heard, or in settings where extreme silence is needed and the tour guide can't speak loudly enough for the group to hear. The Venture-Express solves these problems.

Listeners equipped with portable receivers clearly hear the tour guide who is speaking into the Venture-Base transmitter. And the transmitter's small size makes it easy to clip onto a belt, slip into a pocket, or hold in your hand.

As an added feature, the transmitter has mixable audio inputs for both mic and line (e.g. TV, VCR, CD player). This allows you to broadcast two sources simultaneously or switch between them. And tuning is as easy as setting your car stereo. When you select the channel, the LCD display not only indicates which channel you're on, it warns you when your batteries are low.



Each Venture-Express Transmitter includes a belt/pocket clip and a lavalier microphone.

Features and Benefits

- User channel selectable to 19 channels in the 216MHz frequency band
- Maximum voice intelligibility
- Transmitter frequency is crystal-controlled (phase lock loop) for absolute frequency control and stability
- Small size and built-in belt clip make the transmitter easy to carry
- 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); recharge using the Gentner BC-10A battery charger (optional)
- Transmitter is wireless and can be used anywhere
- Squelch control to minimize noise when changing channels

Applications

- Language translation services
- Tour groups

Specifications

Dimensions (LxDxH)

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

Weight

4 oz./112 kg (dry)

Microphone Input

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

Connector: mini XLR

Pin Out: 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

\leq 100mW

(working range of 10-50 feet)

Frequency Control

Digitally synthesized, crystal controlled

Frequency Stability

0.005%

Selectable Transmit Frequencies

19 channels in the 216MHz band

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: 100Hz-10kHz, \pm 3dB

Compliance Approvals

FCC and Industry Canada

A&E Specifications

The transmitter is FCC and Industry Canada approved. It operates in the 216MHz Auditory Assistance Band as approved by the FCC, and the transmitted field strength won't exceed 80mV/meter at 3 meters.

The power button on the front of the transmitter activates the LCD and begins RF transmission. The operating frequency is user selectable to 19 frequencies in the 216MHz band. The squelch control suppresses noise caused by changing

channels. Using the memory recall buttons on the front of the transmitter, any of the six user-defined presets can be selected. The selected broadcast frequency is displayed on the front panel LCD.

The transmitter features a balanced microphone level mini-XLR jack and an unbalanced line level RCA input jack. These inputs are selectable to either individually active or a mix of both. The microphone input has a switch to control

audio muting. The audio processing chain consists of dynamic equalization and broadband AGC.

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

The Gentner Venture-Express is specified.