



Venture-Base Transmitter Transmitters

Convenient, cost effective, and easy to use, the Venture-Base transmitter is the perfect solution for your language translation needs.

In language translation environments, the translator is typically in the back of the room or behind a wall so the speaker in the main meeting room won't be interrupted. Designed with these environments in mind, the Venture-Base uses an FM signal. This signal travels through walls and windows as if they weren't there, delivering quality audio to listeners wearing a Venture receiver.

More than just a transmitter, the Venture-Base actually enhances sound quality to increase intelligibility. It also eliminates the potential for clipping and overmodulation. With 19 channels to choose from, multiple transmitters can be used in one location. This not only reduces the possibility for audio interference, it allows you to broadcast different information on separate channels simultaneously. This is especially useful if a meeting needs to be translated into multiple languages.

Compatibility is key with the Venture-Base. You can connect any existing audio system via a tape or mixer auxiliary output. The universal input stage accepts audio from a mic, line, or speaker, producing exceptional audio quality at all levels.



The Venture-Base Transmitter enhances sound quality to increase intelligibility.

Features and Benefits

- Combines multiband compression, automatic gain control, and peak limiting so there is no clipping or overmodulation, providing superior overall sound quality and dynamics control
- Transmits to an area of more than 700,000 square feet so the Venture-Base is low cost for large venues
- Easily connects to any source—universal input stage provides input for mic, line, or speaker level, balanced or unbalanced
- Field selectable channels (19 in the 216MHz frequency band) with digital channel selection for lower risk of interference
- Supplied with flex antenna, remote mount, and 50' RG174 type cable
- Audio input level meter for visible indication of audio input and levels
- Adjustable RF level allows control of RF coverage
- Rugged steel chassis for enhanced RF quality
- Audio monitor jack with volume control
- Aphex® processing for increased intelligibility
- Wide area FM system works outdoors in bright light with no line of sight restrictions

Applications

- Language translation services

assistive listening systems



Specifications

Dimensions (LxDxH)

8.25" x 7.25" x 1.75"
20.96 x 18.42 x 4.5 cm

Weight

2.5 lb/1.13 kg (dry)
5.4 lb/2.46 kg (shipping)

Audio Inputs

Mic: 600 Ω balanced, 10mV
Line: 600 Ω balanced, 1V
Line: 10k Ω unbalanced, 1V
Speaker: unbalanced

Automatic Gain Control Range

40dB

Manual Input Level Control

20dB

Signal to Noise Ratio

60dB

Transmission Type

FM modulation

Maximum Deviation

\pm 25kHz, 50kHz total

Maximum Radiated Power

8000uV/m at 30M

RF Level Adjust

1/4, 1/2 and full power

Frequency Control

Digitally synthesized, crystal controlled

Frequency Stability

0.005%

Selectable Frequencies

19 channels in the 216MHz band

Power Requirements

9–15VDC at 500mA

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 per meter at 3 meters.

This transmitter features an audio processing chain consisting of wide-band AGC, multi-band compression, Aphex Aural Exciter®, and peak limiting. It can be mounted in a standard 1 RU rack steel package.

Front Panel Features

- Power switch with LED
- LED to indicate proper RF carrier operation
- Adjustable audio input level control with LED audio level display
- Audio processing control
- 1/4" stereo monitor jack with volume control

Back Panel Features

- 50 Ω antenna connector for a local or remote antenna
- XLR balanced and RCA unbalanced input jacks selectable

to balanced mic, balanced and unbalanced line, and unbalanced speaker audio signals

- Switchable high-pass filter providing a 6dB/octave rolloff at 180Hz
- Switchable 1kHz test tone to aid setup and receiver channel selection
- Slide switch that adjusts the RF output level to 1/4, 1/2, or full power
- Thumbwheel to digitally select any of the 19 operating frequencies in the approved band