



## Venture Base Consultant Specs

The transmitter shall operate in the 216 MHz Auditory Band as approved by the FCC. The transmitted field strength shall not exceed 80mV per meter at three meters. The operating frequency shall be digitally selectable by rear panel thumb wheel switches to any of 19 frequencies in the approved band. The transmitter shall be FCC and Industry Canada approved.

Maximum FM deviation shall not exceed a total of 50kHz. Frequency stability shall be controlled by a phase locked loop frequency synthesizer with crystal reference and is accurate within  $\pm 0.005\%$  from 0–50° C. The transmitter shall have a 50 $\Omega$  antenna connector for a local or remote antenna. The RF output level shall be adjustable by a rear panel slide switch providing 1/4, 1/2, and full power.

The transmitter shall have XLR balanced and RCA unbalanced input jacks selectable as balanced mic, balanced and unbalanced line, and unbalanced speaker audio signals. There shall be a front panel control to adjust the audio input level with an LED audio level display. There shall be a switchable high-pass filter providing a 6dB/octave roll off at 180Hz. There shall be an audio processing chain consisting of wide-band AGC, multi-band compression, Aphex Aural Exciter®, and peak limiting. There shall be front panel control to regulate the overall amount of audio processing and a switchable 1kHz test tone to aid setup and receiver tuning.

The transmitter shall be powered by an external AC line to 12VDC power adapter. The front panel shall have a power switch with LED and an LED to indicate proper RF carrier operation. There shall be a 1/4" stereo monitor jack with volume control. The transmitter shall be rack mountable in a standard 1 RU rack steel package.

The Gentner Venture Base transmitter is specified.