

BST 25-216 Transmitter

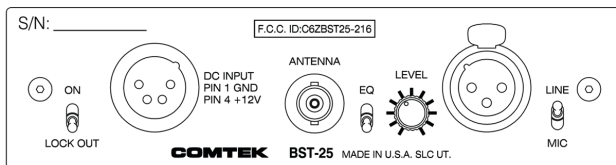
216 MHz

Remote Program Monitoring • Personal Cueing • Language Interpretation • Assistive Listening



- **57 User-Selectable Channels**
- **Balanced Mic or Line Level Input**
- **Companded and non-Companded Audio Processing**

The BST 25-216 transmitter incorporates the latest digital and analog technologies to produce low residual noise, wide dynamic range, and extended frequency response rendering the most natural sound possible for a wireless system. For highest fidelity operation, the PR-216 receiver can be used on the wide-band companded channels. The BST 25-216 is also compatible with other manufacturer's all-in-ear type receivers operating in the 216-217 MHz band on the narrow band non-companded channels with a special EQ setting. The transmitter's microcontroller automatically sets the modulation deviation and the audio mode for companding processing when corresponding channels are selected.



Technical Specifications:

Audio Inputs:

- Mic: XLR 600 ohm Balanced -40 dBV (nominal)
- Line: XLR >10 k ohm Balanced 0 dBV (nominal)

Antenna:

- Telescopic antenna mounts directly into top of transmitter
- BNC RF output connector for optional external antenna

RF Output Power: Set for 100 mW

Operation Indicators:

- LED Bargraph VU Meter displays audio input (modulation)
- Two-Digit Alpha Numeric Display shows operating channel
- Five-Digit Numeric Display shows operation frequency
- Antenna Indicator displays deficient antenna condition
- Lock-out Indicator shows tuning has been disabled

Power Compliance: 12 Volts DC, 300 mA max

Frequency Response: 80 Hz to 8 kHz

Audio Distortion: Less than 1% at 80% modulation

Modulation Limiter: Soft compressor type with high (25 dB) linear overload protection; attack time less than 1 ms; recover time 10 ms

Audio Gain Control: Greater than 40 dB

Test Tone Generator: 400 Hz 0.05% distortion

Frequency Modulation: 5 kHz and 10 kHz deviation

Frequency Stability: Better than 20 ppm; digitally synthesized; crystal controlled

Operating Frequency: 216-217 MHz

Harmonic and Spurious Emissions: Better than 55 dB below carrier

Dimensions: 6 1/2" W x 1 3/4" H x 5 5/8" D

Weight: 44 oz.

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