## About the microEar:

PHONAK Communications, a division of one of the world's largest hearing aid companies, was instrumental in developing a remarkable silicon chip with a very unconventional blend of technologies. This chip integrates digital and analog techniques to produce a complete all-in-the-ear, narrow-band, crystal controlled, superheterodyne F.M. receiver. The microEar's low power circuitry, low noise pre-amplifiers and adaptive filtering techniques make it possible to achieve this exceptional high level of performance.

## About the BST-25 216 MHz:

COMTEK selected its BST-25 base station to be the preferred transmitter for the microEar VHF receiver because of its comprehensive features and exceptional track-record in the broadcast and film production industry.

- Microcontroller unit sets deviation, modulation. compression and EQ to automatically enhance microEar's performance.
- Compatible with specialized remote antennas.
- Compact and durable all-metal styling.

## microEar VHF (Studio) Specifications:

Operating

Radio Frequency:

5 preselected channels for simultaneous operation in the 216-217 MHz band

F.M. Modulation:

5 KHz deviation

Antenna:

Self-contained (no external

antenna)

Range:

100 Ft. with full quieting, 300 Ft. maximum ( with COMTEK BST-25

transmitter)

**Ultimate Quieting:** 

58dB S/N related to 100%

modulation

Audio Output:

High volume @ 60% modulation 109dB SPL Low volume @ 60% modulation 100dB SPL

Frequency Response: 150 Hz to 5 KHz with

COMTEK BST-25 transmitter

Harmonic Distortion:

3% @ 60% modulation

@ 1 KHz

Battery Life:

20 hrs with A10 zinc-air type

Dimensions:

17.5 X 11 to 5 mm.

Weight:

1.4 gr. with battery

Squelch:

**Automatic** 

## **BST-25 216MHz Specifications:**

Operating

Radio Frequency:

60 synthesized channels in the 216-217 MHz band Ch. 1-40 for the microEar Ch. 41-60 for COMTEK PR-216

F.M. Modulation:

5 KHz deviation Ch. 1-40 10 KHz deviation Ch. 41-60

Antenna:

Local whip antenna

RF Power Output:

100mW for FCC part 95

RF Stability:

20 ppm XTL controlled Digitally synthesized

Out Band Emissions:

< 55 dB below carrier

Audio Inputs:

Mic 600  $\Omega$  Balanced -50dBV Line 10K Ω Balanced +10dBV Switched XLR transformer

Balanced input

Frequency Response:

80Hz to 8 KHz

Audio Distortion:

> 1% at 80% modulation

Operation Indicators:

VU bar graph meter Ch. and frequency Antenna condition Tuning lock-out

Power:

12V DC with AC adapter

Dimensions:

6.5" X 6.5" X 1.75 " with half or full rack mount

