

Bid Specifications for Telex SoundMate Multi-Channel Personal FM Receiver SR-400

1. General Description

The Personal FM Receiver is designed for use in auditory assistance and personal communication applications. The Personal FM Receiver provides amplification for mild to severe hearing losses. Persons with normal hearing, when used with an appropriate listening accessory may also use the Personal FM receiver.

The Multi-Channel Personal FM Receiver must feature an advanced digital PLL synthesizer which makes 17 narrow band hearing assistance channels in the 72-76 MHz range available in one unit. The current channel must be displayed on a back lit LCD display.

2. Multi-Channel Personal FM Receiver

1. Must have seventeen-channel synthesized user adjustable.
2. Must have a high frequency boost filter accessible by a push button switch. This filter must increase intelligibility of the audio signal, providing additional assistance for individuals with reduced high frequency sensitivity and for users wearing earphones with limited audio response.
3. Must have Enhanced Dynamic Range (E.D.R.) feature to improve the signal to noise ratio and audio quality when used with the PST-170 or ST-300 transmitter.
4. Must have an advanced synthesized design which eliminates channel drift.
5. Must have top mounted, tactile-feel controls to make operating any function easy.
6. Must have power saving feature which automatically shuts off power when the earphone, headset, or neckloop is removed.
7. The Personal FM Receiver must run on 2 AA-size alkaline batteries (20 hrs. continuous use), or 2 Ni-MH batteries (14 hrs. continuous use).
8. Earphone jack must accept any standard 3.5 mm (0.138 inch) mini stereo or mono earphone/headphone.
9. The Personal FM Receiver must have a three year parts and labor warranty.

3. Specifications

RF Frequency Range: 72.1 - 75.9 MHz

Audio Response: 100 - 10,000 Hz +/- 3 dB

Modulation: FM, +/- 25 KHz deviation

Harmonic & Spurious Emissions: Meets FCC part 15

Sensitivity: 0.5 μ v typical, 1.0 μ v maximum, 12 dB SINAD @ 25 KHz deviation

Image Rejection: >65 dB

Signal-to-Noise Ratio: >65 dB, >77 dB with E.D.R.

Distortion: <2% T.H.D.

Audio Output: @10% distortion ----- Into 8 Ohms--48 mW Into 32 Ohms--30 mW

Antenna Type: 1/4 wave omni-directional, in earphone cord

Batteries: 2 AA-size alkaline (20 hrs. continuous use), or 2 Ni-MH (14 hrs. continuous use)

Audio Controls: Volume, On/Off, High Frequency Boost (push-on type)

Earphone Connector Type: 3.5 mm (0.138 inch) mini stereo or mono

Channels Tuned: 72.1, 72.2, 72.3, 72.4, 72.5, 72.6, 72.7, 72.8, 72.9, 74.7, 75.3, 75.4, 75.5, 75.6, 75.7, 75.8, 75.9

Size: 3.9 inches high x 2.7 inches wide x 1.0 inch thick (9.9 x 6.9 x 2.5 cm) excluding belt clip

Weight: 4.8 oz. (136 grams) including batteries