

# **Bid Specifications for Telex SoundMate Multi-Channel Personal FM Transmitter PST-170**

## **1. General Description**

The Personal FM Transmitter is designed to provide auditory assistance in both personal and group situations. It operates on the 17 narrow-band channels in the 72-76 MHz band. The Personal FM Transmitter is light-weight and battery operated for convenience and portability. It runs on two (2) AA batteries (alkaline or Ni-MH) and can be paired with an economical, durable personal listening receivers.

## **2. System Components**

1. The FM Transmitter must transmit 17 FCC-approved narrow band frequencies (in the 72-76 MHz radio band) available for the transmitter. The transmitter must identify numerically with a back lit LCD indicator the designated radio channel being transmitted.
2. The FM Transmitter must function with directional and omni-directional lapel microphones, or with head worn noise-canceling boom microphones.
3. The transmitter must have Enhanced Dynamic Range (E.D.R.) feature to improve Signal to Noise and audio quality when used with the SR-400 in E.D.R. mode.
4. The FM Transmitter must have two audio input jacks. One jack must function with the microphone input and the second jack must function with auxiliary inputs, such as tape recorders, televisions, or other audio sources.
5. The FM Transmitter must have an on/off power switch.
6. The FM Transmitter must have a "Power On" indicator light which glows red when activated.
7. The FM Transmitter must have charge contacts to accommodate charging the unit.
8. The FM Transmitter must be powered by two AA-size removable batteries. Either rechargeable nickel metal hydride or non-rechargeable alkaline batteries can be used. The transmitter must operate for a minimum of 7 hours when using rechargeable batteries which are fully charged.
9. The FM Transmitter must have a three year parts and labor warranty.

## **3. Specifications**

Audio Input Characteristics ----- Mic: TA4M connector, 7.75 mV RMS input for +/- 25 KHz deviation, 10K ohms nominal impedance  
Aux. Input: -----3.5 mm (0.138 inch) jack, 100 mV unbalanced, 10K ohms nominal impedance  
Antenna ----- Permanently attached trailing wire  
Modulation ----- FM, +/- 25 KHz deviation  
Frequency Response (System) ----- 100 Hz to 10,000 Hz  
Automatic Gain Control Range ----- 30 dB  
System Signal to Noise ----- 58 dB, > 77 dB with E.D.R.  
Preemphasis ----- 100 micro seconds  
Maximum Power ----- 80K micro Volt/m @ 3 m  
Power Requirements ----- (2) AA batteries, Alkaline or Ni-MH 8 hours alkaline, 7 hours Ni-MH  
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 ----- 5.1 oz. (145 grams) including batteries  
FCC ID ----- B5DM521