

# FIRECOM 3000 INTERCOM SYSTEM: SAMPLE TECHNICAL SPECIFICATIONS

## 01. PURPOSE

- 01.1 The Purpose of these technical specifications is to provide for the purchase of a **FIRECOM 3000 Apparatus Intercom System.**
- 01.2 Complete system shall meet or exceed the following specifications.

## 02. SYSTEM/CAPABILITY

- 02.1 Shall be compatible with VHF or UHF radios.
- 02.2 Intercom units with optional Digital message recorder (DMR) shall have instant replay capability with a minimum of one (1) megabit of voice memory, consisting of not less than 30 seconds.
- 02.3 Intercom systems with optional Dual Radio Switch (DR-1C) will provide receive audio from two radios and allow the user to select either radio for radio transmit.
- 02.4 Shall have a total power input requirement for each system not to exceed one half (1/2) amps (12v DC).
- 02.5 Shall have a minimum allowable power output for each system of 375 milliwatts per station at 150 ohms.
- 02.6 Shall have the capacity for a total of not less than six (6) headsets without reduction or fluctuation of sound level, regardless of number of attached headsets.

## 03. HEADSETS

- 03.1 Each headset with radio transmit capability shall have a voice activate intercom function and dome mounted radio transmit push-to-talk button. Intercom function for the officer and driver shall be hand free.
- 03.2 Each headset without radio transmit capability shall have a momentary button or mic on/off button mounted on ear dome for intercom only function.
- 03.3 **Single ear headset:** Shall meet all headset specifications in this document and have one ear dome only.
- 03.4 **Slotted headset:** Shall meet all headset specifications in this document and will have two ear domes. One ear dome will be slotted and will not have a speaker or any other mounted electrical hardware so as to allow ambient sound to enter the ear piece.
- 03.5 Both under helmet and standard over the head style headsets will have a detent volume control on ear dome.

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03.6 **Sensitivity:** Shall not be less than 104 db re. .0002 microbar @ 1000 Hz 1mw with not less than 24 db noise reduction rating and will meet or exceed NFPA 1500 Hearing Protection Standards.

03.7 **Shielding:** Will have shielded coil cord at least 6 feet long (extended) and shall terminate with a double 5 conductor plug.

03.8 **Weight:** Shall not exceed 22 ozs. (Not including the Comm Cable.)

03.9 **Microphone:** Shall be equipped with a folding, ear dome mounted boom which will be able to be positioned on either the right or left side and will be capable of operation on a source resistance range of 220 to 2200 ohms.

### **04. PUMP PANEL HEADSET PLUG-IN MODULE**

04.1 Shall be water resistant and designed for exterior use.

### **05. EAR AND MIC COVERS**

05.1 Shall include replaceable cloth headset ear covers and foam mic cover.

### **06. HARDWARE**

06.1 Shall have suitable under/over dash mounting system hardware.

06.2 Each system shall include all necessary hardware, including all connectors, plugs, jacks, etc., for the complete installation by department personnel (excluding radio specific interface).

### **07. CABLES (VEHICLE MOUNTED)**

07.1 Shall be six (6) conductor, copper (solid or stranded) telephone type flat insulated wire utilizing six (6) conductor telephone type modular connectors to withstand excessive vibration.

07.2 Each system shall include an ample supply of cable provided at no charge.

### **08. WARRANTY**

08.1 Each system shall have a minimum of a (2) year warranty covering defects in material and workmanship.

### **09. PERFORMANCE**

09.1 The manufacturer shall have similar units in production and actual field work situations for a minimum of five (5) years.

**10. RADIO INTERFACE**

- 10.1 The mobile radio interface cable can range from a standard interface that comes with the intercom system (no additional charge) to an interface that needs to be specially designed for a particular radio for and additional charge. Which interface will be required will depend upon the radio make and model and the abilities of the installer.