

## FIRECOM 110 INTERCOM SYSTEM: SAMPLE TECHNICAL SPECIFICATIONS

### 01. PURPOSE

- 01.1 The Purpose of these technical specifications is to provide for the purchase of a **FIRECOM 110 Active Radio Interface Unit** as suggested by the National Fire Protection Association NFPA 1500, section A-5-11.1 (Hearing Protection).
- 01.2 Each complete unit shall meet or exceed the following specifications.

### 02. SYSTEM/CAPABILITY

- 02.1 Shall be compatible with VHF or UHF radios.
- 02.2 Shall not exceed two (2) amps (12v DC) to total power input requirement for each system.
- 02.3 Minimum allowable power output for each system of 375 milliwatts per station at 150 ohms.
- 02.4 Shall have independent transmit and receive level adjustments.
- 02.5 Shall function with one radio transmit headset.
- 02.6 Shall be able to accommodate multiple headset plug-in modular locations.

### 03. HEADSETS

- 03.1 The headset with radio transmit capability shall have a dome mounted radio transmit push-to-talk button.
- 03.2 Both under helmet and standard over the head style headsets will have a detent volume control on ear dome.
- 03.3 **Sensitivity:** Shall not be less than 104 db re. .0002 microbar @ 1000 Hz. Headsets to meet or exceed NFPA 1500 Hearing Protection Standards.
- 03.4 **Shielding:** Will have shielded coil cord at least 6 feet long (extended) and shall terminate with a single or double 5 conductor plug.
- 03.5 **Weight:** Shall not exceed 17 ozs. (Not including the Comm Cable.)
- 03.6 **Single ear headset:** Shall meet all headset specifications in this document and have one ear dome only.
- 03.7 **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.

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03.8 **Microphone:** Shall be noise canceling, electret mic, mounted on a flexible or articulating wire boom assembly, which will be able to be positioned on either the right or left side and is capable of operating on a source resistance range of 220 to 2200 ohms.

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

04.1 The pump panel headset plug-in module shall be water resistant and designed for exterior use.

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

05.1 Each headset shall include replacement cloth ear covers and foam mic cover.

### **06. HARDWARE**

06.1 Headset plug-in modules will connect with RJ-12 connectors and shall have a built in rubber stain relief with moisture/dust proof boot.

### **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.

### **08. WARRANTY**

08.1 Each 110 unit's components 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 three (3) years.

### **10. RADIO INTERFACE**

10.1 The mobile radio interface cable can range from a standard interface that comes with control unit (no additional charge) to an interface that needs to be specially designed for a particular radio (minimum charge of \$180.00). Which interface is needed will depend upon the radio make and model and the abilities of the installer.

10.2 A handheld interface adaptor allows radio transmit headsets to be plugged into a specific portable radio. Each handheld interface adapter will have a stainless steel positive grip belt clip.