

## Standard Accessories

|                |               |                        |           |               |         |
|----------------|---------------|------------------------|-----------|---------------|---------|
| Li-Ion Battery | Power Adapter | MCU Rapid-rate Charger | Belt Clip | Leather Strap | Antenna |
|----------------|---------------|------------------------|-----------|---------------|---------|

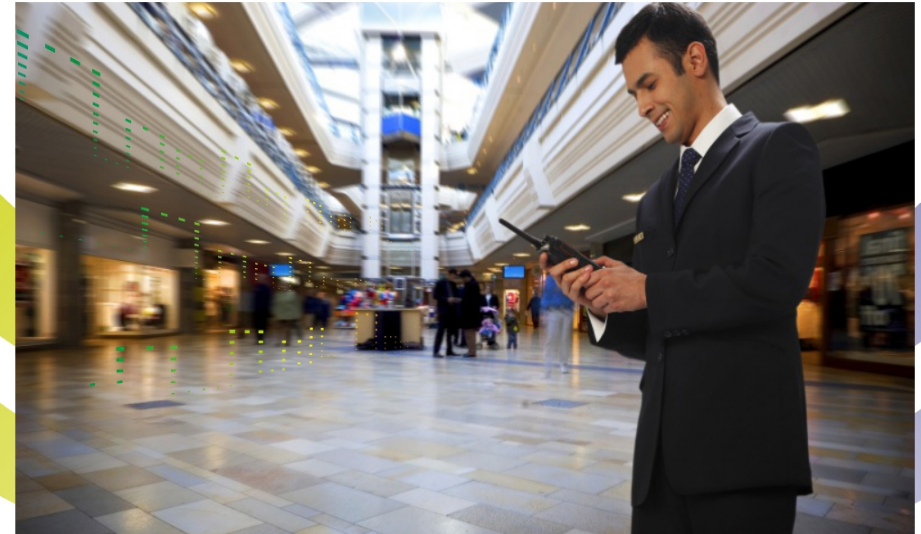
## Optional Accessories

|                                 |   |                                     |                             |   |                                |   |                                  |
|---------------------------------|---|-------------------------------------|-----------------------------|---|--------------------------------|---|----------------------------------|
|                                 |   |                                     |                             |   |                                |   |                                  |
| Bi-micro Speaker (IP57) SM 10N2 | Earpiece with On-MIC PTT (Transparent Acoustic Tube) EM16 | Earset with In-Line Microphone EH12 | Earbud with On-MIC PTT ES10 | 3-Wire Star with Ear Piece with In-Line Acoustic Tube (Single) EA17 | Six-Unit Switching Power P5702 | Carrying Case (for stock battery) (after release) Q1Y03 | Programming Cable (USB Port) PC3 |

Pictures above are for reference only and may vary from actual products.

## Specifications

| General   |   | Transmitter  |  |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
|---|---|--|--|-----------|--------|-----------|--------|-----------|------|--|------|--|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------------|-------|---|-------|-------|-------|-------|-------|----|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|-------|---|-------|-------|-------|-------|-------|-------|-------------------|-------|---|-------|---|-------|---|-------|---|-----------------|-------|---|-------|---|-------|---|-------|---|------|-------|----|-------|----|-------|-------|-------|-------|----------|-------|----|-------|---------|-------|---------|-------|--|----------|-------|---|-------|---|-------|---|-------|---|-------------|-------|---|-------|---|-------|---|-------|---|-----------|-------|---------|-------|---|-------|---|-------|-----|-------|-------|----------|-------|-------|-------|-------|-------|-----|
| Frequency Range   | VHF: 136-174MHz<br>UHF1: 400-470MHz<br>UHF3: 350-400MHz                     | RF Power Output  | VHF High Power:5W<br>VHF Low Power:1W<br>UHF 1/UHF3 High Power:4W<br>UHF 1/UHF3 Low Power:1W |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Channel Capacity  | 32  | FM Modulation  | 11K @ F3E @ 12.5 kHz<br>14K @ F3E @ 20 kHz<br>16K @ F3E @ 25 kHz                             |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Zone Capacity   | 3<br>(each with a maximum of 16 channels)                                   | 4FSK Digital Modulation  | 2.5kHz Data Only: 7K6 @ FXD<br>12.5kHz Data & Voice: 7K6 @ FXW                               |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Channel Spacing   | 25 / 20 / 12.5 kHz  | Conducted/Radiated Emission  | -36dBm<1GHz<br>-30dBm>1GHz   |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Operating Voltage   | 7.4V (rated)  | Modulation Limiting  | ± 2.5kHz @ 12.5 kHz<br>± 4.0kHz @ 20 kHz<br>± 5.0kHz @ 25 kHz                                |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Battery   | 2000mAh(Li-Ion)   | FM Noise   | 40dB @ 12.5 kHz<br>43dB @ 20 kHz<br>45dB @ 25 kHz  |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Battery Life<br>(5-9 Duty Cycle, High TX Power)<br>High capacity 2000mAh Li-Ion Battery | Analog: Above 10.5 Hours<br>Digital: Above 14 Hours                         | Adjacent Channel Power   | 60dB @ 12.5 kHz<br>70dB @ 20/25kHz   |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Frequency Stability   | ± 1.5ppm  | Audio Response   | +1 ~ -3dB  |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Antenna Impedance   | 50Ω   | Audio Distortion   | ≤ 3%   |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Dimensions (H*W*D)<br>(with standard battery, without antenna)                          | 25*55*35mm/4.92*1.21*1.37inch   | Digital Vocoder Type   | AMBE++ or SELP   |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Weight<br>(with antenna & standard battery)   | 335g / 0.74lb   | Digital Protocol   | ETS1-TS102361-1, 2&3   |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Front Case  | PC  | Environmental Specifications   |  |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Receiver  |   | Operating Temperature  | -30°C ~ +60°C  |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Sensitivity (Analog)  | 0.3 μV (12dB SINAD)<br>0.22μV (Typical) (12dB SINAD)<br>0.4 μV (20dB SINAD) | Storage Temperature  | -40°C ~ +85°C  |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Sensitivity (Digital)   | 0.3 μV / BER5%  | ESD  | IEC 61000-4-2 (level 4)<br>± 8kV (contact)<br>± 15kV (air)                                   |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Selectivity<br>TIA-603<br>ETSI  | 60dB @ 12.5 kHz / 70dB @ 20/25 kHz<br>60dB @ 12.5 kHz / 70dB @ 20/25 kHz    | American Military Standard   | MIL-STD-810 C/D/E/F  |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Intermodulation<br>TIA-603<br>ETSI  | 70dB @ 12.5/20/25 kHz<br>65dB @ 12.5/20/25 kHz                              | Dust & Water Intrusion   | IP57 Standard  |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Spurious Response Rejection<br>TIA-603<br>ETSI  | 70dB @ 12.5/20/25 kHz<br>70dB @ 12.5/20/25 kHz                              | Humidity   | Per MIL-STD-810 C/D/E/F Standard   |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| S/N   | 40dB @ 12.5 kHz<br>43dB @ 20 kHz<br>45dB @ 25 kHz                           | Shock & Vibration  | Per MIL-STD-810 C/D/E/F Standard   |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Rated Audio Power Output  | 0.5W  | All Specifications are tested according to applicable standards, and subject to change without notice due to continuous development.   |  |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Rated Audio Distortion  | ≤ 3%  | <b>Applicable Military Standards</b>   |  |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Audio Response  | +1 ~ -3dB   | <table border="1"> <thead> <tr> <th rowspan="2">Method</th> <th colspan="2">810C</th> <th colspan="2">810D</th> <th colspan="2">810E</th> <th colspan="2">810F</th> </tr> <tr> <th>Method</th> <th>Procedure</th> <th>Method</th> <th>Procedure</th> <th>Method</th> <th>Procedure</th> <th>Method</th> <th>Procedure</th> </tr> </thead> <tbody> <tr> <td>Low Pressure</td> <td>500.1</td> <td>I</td> <td>500.2</td> <td>I, II</td> <td>500.3</td> <td>I, II</td> <td>500.4</td> <td>II</td> </tr> <tr> <td>High Temperature</td> <td>501.1</td> <td>I, II</td> <td>501.2</td> <td>I, II</td> <td>501.3</td> <td>I, II</td> <td>501.4</td> <td>I, II</td> </tr> <tr> <td>Low Temperature</td> <td>502.1</td> <td>I</td> <td>502.2</td> <td>I, II</td> <td>502.3</td> <td>I, II</td> <td>502.4</td> <td>I, II</td> </tr> <tr> <td>Temperature Shock</td> <td>503.1</td> <td>I</td> <td>503.2</td> <td>I</td> <td>503.3</td> <td>I</td> <td>503.4</td> <td>I</td> </tr> <tr> <td>Solar Radiation</td> <td>505.1</td> <td>I</td> <td>505.2</td> <td>I</td> <td>505.3</td> <td>I</td> <td>505.4</td> <td>I</td> </tr> <tr> <td>Salt</td> <td>506.1</td> <td>II</td> <td>506.2</td> <td>II</td> <td>506.3</td> <td>I, II</td> <td>506.4</td> <td>I, II</td> </tr> <tr> <td>Humidity</td> <td>507.1</td> <td>II</td> <td>507.2</td> <td>II, III</td> <td>507.3</td> <td>II, III</td> <td>507.4</td> <td></td> </tr> <tr> <td>Salt Fog</td> <td>509.1</td> <td>I</td> <td>509.2</td> <td>I</td> <td>509.3</td> <td>I</td> <td>509.4</td> <td>I</td> </tr> <tr> <td>Sand &amp; Dust</td> <td>510.1</td> <td>I</td> <td>510.2</td> <td>I</td> <td>510.3</td> <td>I</td> <td>510.4</td> <td>I</td> </tr> <tr> <td>Vibration</td> <td>514.2</td> <td>VIII, X</td> <td>514.3</td> <td>I</td> <td>514.4</td> <td>I</td> <td>514.5</td> <td>124</td> </tr> <tr> <td>Shock</td> <td>516.2</td> <td>I, II, V</td> <td>516.3</td> <td>I, IV</td> <td>516.4</td> <td>I, IV</td> <td>516.5</td> <td>LIV</td> </tr> </tbody> </table> |  | Method    | 810C   |           | 810D   |           | 810E |  | 810F |  | Method | Procedure | Method | Procedure | Method | Procedure | Method | Procedure | Low Pressure | 500.1 | I | 500.2 | I, II | 500.3 | I, II | 500.4 | II | High Temperature | 501.1 | I, II | 501.2 | I, II | 501.3 | I, II | 501.4 | I, II | Low Temperature | 502.1 | I | 502.2 | I, II | 502.3 | I, II | 502.4 | I, II | Temperature Shock | 503.1 | I | 503.2 | I | 503.3 | I | 503.4 | I | Solar Radiation | 505.1 | I | 505.2 | I | 505.3 | I | 505.4 | I | Salt | 506.1 | II | 506.2 | II | 506.3 | I, II | 506.4 | I, II | Humidity | 507.1 | II | 507.2 | II, III | 507.3 | II, III | 507.4 |  | Salt Fog | 509.1 | I | 509.2 | I | 509.3 | I | 509.4 | I | Sand & Dust | 510.1 | I | 510.2 | I | 510.3 | I | 510.4 | I | Vibration | 514.2 | VIII, X | 514.3 | I | 514.4 | I | 514.5 | 124 | Shock | 516.2 | I, II, V | 516.3 | I, IV | 516.4 | I, IV | 516.5 | LIV |
| Method  | 810C  |  | 810D   |           | 810E   |           | 810F   |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
|   | Method  | Procedure  | Method   | Procedure | Method | Procedure | Method | Procedure |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Low Pressure  | 500.1   | I  | 500.2  | I, II     | 500.3  | I, II     | 500.4  | II        |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| High Temperature  | 501.1   | I, II  | 501.2  | I, II     | 501.3  | I, II     | 501.4  | I, II     |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Low Temperature   | 502.1   | I  | 502.2  | I, II     | 502.3  | I, II     | 502.4  | I, II     |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Temperature Shock   | 503.1   | I  | 503.2  | I         | 503.3  | I         | 503.4  | I         |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Solar Radiation   | 505.1   | I  | 505.2  | I         | 505.3  | I         | 505.4  | I         |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Salt  | 506.1   | II   | 506.2  | II        | 506.3  | I, II     | 506.4  | I, II     |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Humidity  | 507.1   | II   | 507.2  | II, III   | 507.3  | II, III   | 507.4  |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Salt Fog  | 509.1   | I  | 509.2  | I         | 509.3  | I         | 509.4  | I         |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Sand & Dust   | 510.1   | I  | 510.2  | I         | 510.3  | I         | 510.4  | I         |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Vibration   | 514.2   | VIII, X  | 514.3  | I         | 514.4  | I         | 514.5  | 124       |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Shock   | 516.2   | I, II, V   | 516.3  | I, IV     | 516.4  | I, IV     | 516.5  | LIV       |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Conducted Spurious Emission   | ≤ -57 dBm<br><b>GPS (For PD708G Only)</b>                                   |  |  |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| TTFF (Time To First Fix) Cold Start   | < 1 minute  |  |  |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| TTFF (Time To First Fix) Hot Start  | < 10 seconds  |  |  |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |
| Horizontal Accuracy   | < 10 meters   |  |  |           |        |           |        |           |      |  |      |  |        |           |        |           |        |           |        |           |              |       |   |       |       |       |       |       |    |                  |       |       |       |       |       |       |       |       |                 |       |   |       |       |       |       |       |       |                   |       |   |       |   |       |   |       |   |                 |       |   |       |   |       |   |       |   |      |       |    |       |    |       |       |       |       |          |       |    |       |         |       |         |       |  |          |       |   |       |   |       |   |       |   |             |       |   |       |   |       |   |       |   |           |       |         |       |   |       |   |       |     |       |       |          |       |       |       |       |       |     |



# PD708/PD708G

Versatile Digital Portable Two-Way Radio



As a product built to the DMR standard, PD708/708G(PD708G) is the model with GPS) is endowed with ergonomic design, all-round digital functions and remarkable quality to refresh your experience and enable you to be responsive to emergent situations.



- Superior Digital Voice
- Submersible with IP57 Rating

## Surya Telecom Private Limited

Address : SCO 36, Sector-3, Panchkula Haryana – 134 112 (INDIA)  
Call Us : +91-9216296887, +91-172-2565228  
Email : sales@suryatel.com  
Website : www.suryatel.com

Higher Efficiency  
Richer Experience



## Product Features»



### Ergonomic Design

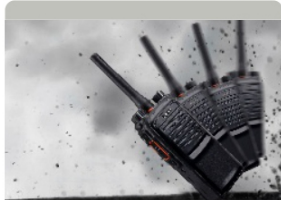
The globally patented industrial design and antenna design ensure convenient operation and remarkable GPS performance.

### Reliable Quality

PD708/708G is strictly compliant with MIL-STD-810 C/D/E/F and IP57 standards, ensuring outstanding performance even under harsh environments.

### Superior Voice

With the combined application of narrowband codec and digital error-correction technologies, PD708/708G is capable of ensuring your superior voice under noisy environments or at the edge of the coverage area. In addition, the adoption of the AGC technology also optimizes your voice. With a built-in 1W speaker, PD708/708G ensures clear and crisp voice communication.



### Durable Battery

Compared with an analog radio, PD708/708G can obtain an extra 40% operation time.

### Higher SpectruEfficiency, Higher Channel Capacity

Benefiting from the TDMA technology, PD708/708G allows twice the channels based on the same spectrum resource. This is a big help to relieve the stress of increasing shortage in spectrum resource.

### Dual-slot Pseudo Trunking

With this feature, the free slot can be allocated to a member that needs to communicate, effectively enhancing frequency efficiency and allowing you to communicate timely under emergent situations.



### Secure Communication

Besides the intrinsic encryption of the digital technology, PD708/708G provides enhanced encryption capability (such as 256-bit encryption algorithm) and the Scrambler feature (selectable).

### Versatile Services

In addition to conventional communication services, PD708/708G features rich data services and selectable functions such as Scan, Emergency, Man Down (optional), High-speed Data Transmission\* and Lone Worker\*.

### Further DevelopmentPort

The reserved port in PD708/708G allows users or any third party to further develop other helpful functions (GPS, Call Control and Telemetry).

\* indicates functions available in later version.

## Main Functions »

- ▶ **Dual Modes (Analog+Digital)**  
PD708/708G can operate in either analog or digital mode. It is compatible with the prevalent analog system, ensuring a smooth analog-to-digital transition.
- ▶ **Versatile Voice Calls**  
Intelligent signaling of PD708/708G supports various voice call types, including Private Call, Group Call and All Call.
- ▶ **Vibrate**  
This feature is helpful in alerting you to reception of any voice under noisy or low-volume conditions.
- ▶ **IP Service\***  
PD708/708G allows multiple IP functions if connected with a PC via IP address.
- ▶ **Various Analog Signaling Types**  
PD708/708G supports various analog signaling types (HDC1200, DTMF\*, 2-Tone\* and 5-Tone\*), providing higher function expansion capacity.
- ▶ **Software Upgradable**  
With this capability, you can enjoy further features without buying a new machine.

\* indicates functions available in later version.

## Industrial Design Features »

