

# APEX-500

# Two Way Analogue Radio

## Key Features

- Low Battery Alert
- Priority Channel Scan
- Monitor
- Quiet Talk (QT) and Digital Quiet Talk (DQT)
- Low Battery Alert and Battery Save

## Specifications

### General

|  |                         |
|--|-------------------------|
| Frequency Range                        | 136-174 / 400-470 MHz   |
| Channel Capacity                       | 16                      |
| Frequency Spacing                      | 25/12.5 KHz             |
| Working Voltage                        | 7.4 V                   |
| Battery Capacity                       | 1200 mAh Li-ion Battery |
| Frequency Stability                    | ±2.5 ppm                |
| Operating Temperature Range            | -25 °C to +55 °C        |
| Antenna Impedance                      | 50 Ω                    |
| Dimension (L/W/H)                      | 127 x 60 x 36 mm        |
| Weight (Including Antenna and Battery) | 215g                    |

### Transmitter (ETSI EN 300 086 standard testing)

|                               |                          |
|-------------------------------|--------------------------|
| Output Power                  | VHF: 5W/1W UHF: 4W/1W    |
| Modulation Mode               | 16K Φ F3E / 8K Φ F3E     |
| Modulation Limited            | ± 5KHz / ± 2.5KHz        |
| Audio Distortion              | ≤ 5%                     |
| Residual Frequency Modulation | -45 dB/ -40dB            |
| Adjacent Channel Power        | -70dB/-60dB              |
| Spurious and Harmonic Wave    | -36Bm <1Ghz -30dBm >1Ghz |

### Receiver

|                               |                   |
|-------------------------------|-------------------|
| Receiving Sensitivity         | ≤ 0.18uV/ 0.22 uV |
| Adjacent Channels Selectivity | ≥ 70dB/ 60dB      |
| Intermediation                | ≥ 60dB            |
| Spurious Response             | ≥ 70dB            |
| SNR                           | ≥ 50/45dB         |
| Audio Output Power            | ≥ 500mW           |
| Audio Distortion              | ≤ 5%              |

\*All specifications are subject to change without notice



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