



- Analog & Digital
- TDMA 2 Slots
- Vocoder AMBE++
- CE Approved

**ABELL IS ABLE** to ensure your professional wireless communication.

## Functions and Features

### Efficient utilization, saving the cost

TDMA allows two simultaneous conversations within a 12.5 kHz channel without any interference, which saves cost invested to frequency licenses and repeater systems.

### Noise-free clear voice

Advanced Digital Audio Decoder and Digital Audio Error Correction technology, 40 mm diameter loud speaker for noisy situation.

### Better compatibility

A-510T is compatible with global mainstream DMR brands' terminals and systems. You can operate both in analog and digital mood, which helps users to reduce their cost to upgrade from analog to digital.

### Accurate battery power annunciation

New designed battery capacity annunciating system can report the battery level from 1 to 5. Users can know current battery power timely, avoiding any inconvenience caused by low battery in daily use.

### Longlasting service time

With TDMA technology, A-510T enhances 40% service time more than analog Radios. 1600mAh battery ensures long time service.

### Highest Quality Guaranty

Certified by CE  
MIL-STD-810 C/D/E/F/G  
Dust and water proof Class IP54  
(IP56 in U.K. area)



1.5 Ton Anti-pressure



Dust Proof



Water Proof



1.5 Meter Anti-dropping

**Application**



Outdoor Sport



Estate Management



Public Utility



Industry



Construction & Manufacturing



Dining Entertainment



**Standard accessories**



BC-51  
Charger



High capacity  
1600mAh  
Li-ion Battery



Plastic belt clip



VHF/UHF  
Antenna



Hand strap

**Optional accessories**



Long Antenna



Car charge



AM-EL(s)



CA-6



AE-DH(L.S)



AE-HS  
Earphone



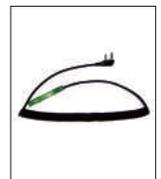
AE-ATS  
Acoustic tube  
earphone



AE-CS  
Earphone



Leather carrying  
case



AC-UL USB  
Programming  
Cable

## General

Frequency Range	VHF: 136-174MHZ UHF: 350-390MHZ 400-470MHZ 440-480MHZ
Channel Capacity	16CH
Channel Spacing	25 kHz/12.5 kHz
Operation Temperature	-25 °C~+60 °C
Operation Voltage	7.4VDC
Antenna Impedance	50Ω
Microphone Impedance	2.2KΩ
Standard	MIL-STD-810 C\D\E\F\G
Battery	Li-ion DC7.4V 1600mAh
Dimension	104.5 mm×52mm×28 mm
Weight	138g (Transceiver) / 232g (With Battery and Antenna)

## Receiver

Sensitivity Ana.(12dB SINAD)	25K≤-121dBm 12.5K≤-119dBm
SNR(Signal-To-Noise Ratio)	25K≥45 dB 12.5K≥40 dB
Adjacent Channel Selectivity	25K≥65 dB 12.5K≥60 dB
Intermodulation Rejection	25K≥60 dB 12.5K≥55 dB
Spurious Respond Rejection	≥65 dB
Audio Output Power	≥1000 mW
Sensitivity Digi.(12dB SINAD)	5% BER:3uV
Audio Frequency Distortion	≤5%
Frequency Stability	±2.5ppm
Battery Life (5-5-90 duty cycle)	14.0 hours (Analog); 18.2 hours (Digital)

## Transmitter

Output Power	H: 5W(VHF) 4W(UHF) L: 1.5 W
Modulation	25K/16KΦF3E 12.5K/11KΦF3E
4FSK Digital Modulation	12.5 kHz Data 7k60FXD 12.5 kHz Data and Audio 7K60FXE
Digital Vocoder	AMBE++
Digital Protocol	ETSI-TS102 361-1,-2
Spurious and Harmonics	≥70 dB
Residual Freq.Modulation	25K≤-45 dB 12.5K≤-40 dB
Audio Frequency Distortion	≤5%
Frequency Stability	±2.5 ppm
Max.Frequency Deviation	25K≤5 kHz 12.5K≤2.5 kHz



Dealer Area

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