

# A-85T

Digitalize your communication

Vocoder

**AMBE++**

Compatible with  
most of mainstream  
DMR brands

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D  
DMR  
A**



## Features:

- ◆ Dual mode analog/digital
- ◆ Dual capacity in direct mode
- ◆ Durable and super dust-proof
- ◆ Emergency alarm
- ◆ DTMF encode & decode
- ◆ PTT-ID
- ◆ Group call/ All call/Single call



## MIL-STD

Based on over 20 years experiences in design and material, according to the military standard MIL-STD, we ensure the durability of A-85T. Maximize the return of your investment.

## General

Frequency Range	VHF: 136-174 Mhz UHF: 400-470MHZ
Channel Numbers	32 channel
Channel Spacing	25kHz/12.5kHz
Operating temp. Range	-25° C~+60 ° C
Operating Voltage	7.5V DC
Antenna Impedance	50Ω
Microphone Impedance	2. 2KΩ
Battery	Li-ion DC7.4V 1600 mAh
Dimension (W×D×H)	135 mm×53 mm×33 mm
Weight	197g (Tranceiver) /318g (include battery)

## Receiver

Sensitivity Ana. (12dB SINAD)	25K $\leq$ 0.22uV (12dB SINAD) 12.5K $\leq$ 0.25uV (12dB SINAD)
Sensitivity Digi. (12dB SINAD)	5% BER 0.3uV
SNR(Signal-To-Noise Ratio)	25K $\geq$ 45 dB 12.5K $\geq$ 40 dB
Adjacent Ch. Selectivity	25K $\geq$ 70 dB 12.5K $\geq$ 65 dB
Intermodulation Rejection	25K $\geq$ 65 dB 12.5K $\geq$ 60 dB
Spurious Respond Rejection	$\geq$ 65 dB
Audio Output Power	$\geq$ 1000 mW
Audio Distortion	$\leq$ 5%
Frequency Stability	$\pm$ 2.5ppm
Battery Stand-by Time	60 Hours

## Transmitter

Output Power	H: 4 W /5 W L: 1.5 W
Modulation	25K/16K $\Phi$ F3E 12.5K/8K $\Phi$ F3E
4FSK Digital Modulation	12.5KHZ Data 7K60FXD 12.5KHZ Data and Audio 7K60FXE
AMBE++	AMBE+2TM
Digital protocol	ETSI-TS102 361-1
Spurious and Harmonics	$\geq$ 70 dB
Residual Freq. Modulation	25K $\leq$ -45 dB 12.5K $\leq$ -40 dB
Audio Distortion	$\leq$ 5%
Freq. Stability	$\pm$ 2.5 ppm
Max. Freq. Deviation	25K $\leq$ 5 kHz 12.5K $\leq$ 2.5 kHz

- Li-ion battery operation temperature -10°C ~+60°C
- Those parameters and features above may be updated along with our technology improvement.

## Standard accessories



BC-82  
Rapid charger with  
Power adaptor



VHF/UHF Antenna



ABC-82P  
Belt clip



AB-L1682  
1600mAh Li-ion battery

## Optional accessories



TH-AE002  
Earhook style earphone



AE-ATL  
Acoustic tube earphone



AC-UL  
USB Programming Cable



Hand strap



AE-EL  
Speaker microphone



AH-L81  
Leather carrying case

## Dealer Area



**ABELL INDUSTRIES CO., LTD**

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