

General Specification

Model	A780T
Frequency Range	VHF: 136-174MHz; UHF: 350-390MHz; 400-470MHz; 450-520MHz;
Channel Capacity	1600CH 100zone
Channel Spacing	25 kHz/12.5 kHz
Operation Temperature	-25°C~+60 °C
Frequency Stability	±2.5ppm
Operation Voltage	7.4VDC
Antenna Impedance	50Ω
Microphone Impedance	2.2KΩ
Battery Life (5-5-90 duty cycle)	1800mAh: Analog 13.9 hours Digital 17.5 hours 2200mAh: Analog 16.9 hours Digital 21.4 hours
Dimension (height*width*thickness)	126 mm * 53mm * 28.5mm
Weight	290g (with battery and antenna)

Receiver

Sensitivity	Analog	≤ 0.22uV(12dB SINAD)@25kHz
	Digital	≤ 0.25uV(12dB SINAD)@12.5kHz
0.22uV (BER 5%)		
SNR (Signal-To-Noise Ratio)	≥45 dB @25kHz	≥ 40 dB@12.5kHz
Adjacent Channel Selectivity	≥70 dB @25kHz	≥ 65 dB@12.5kHz
Intermodulation	≥65 dB @25kHz	≥ 60 dB@12.5kHz
Spurious Response Rejection	≥ 65 dB	
Audio Output Power	≥ 1000 mW	
Rated Audio Distortion	≤ 5%	

Transmitter

RF Power	H: UHF 4 W , VHF 5 W
	L: 1.5W
FM Modulation	25kHz: 16KΦF3E 12.5kHz: 8KΦF3E
4FSK Digital Modulation	12.5kHz data 7K60FXD 12.5 kHz data and voice 7K60FXW
Digital Vocoder Type	AMBE++
Digital Protocol	ETSI-TS102 361-1,-2
	NXDN Part 1-A Common Air Interface Ver.1.3
Harmonic	≥ 70 dB
SNR (Signal-To-Noise Ratio)	≤ -45 dB@25kHz ≤ -40 dB @12.5kHz
Rated Audio Distortion	≤ 5%
Frequency Stability	±2.5 ppm
Max. Frequency Deviation	≤ 5 kHz@25kHz ≤ 2.5 kHz @12.5kHz

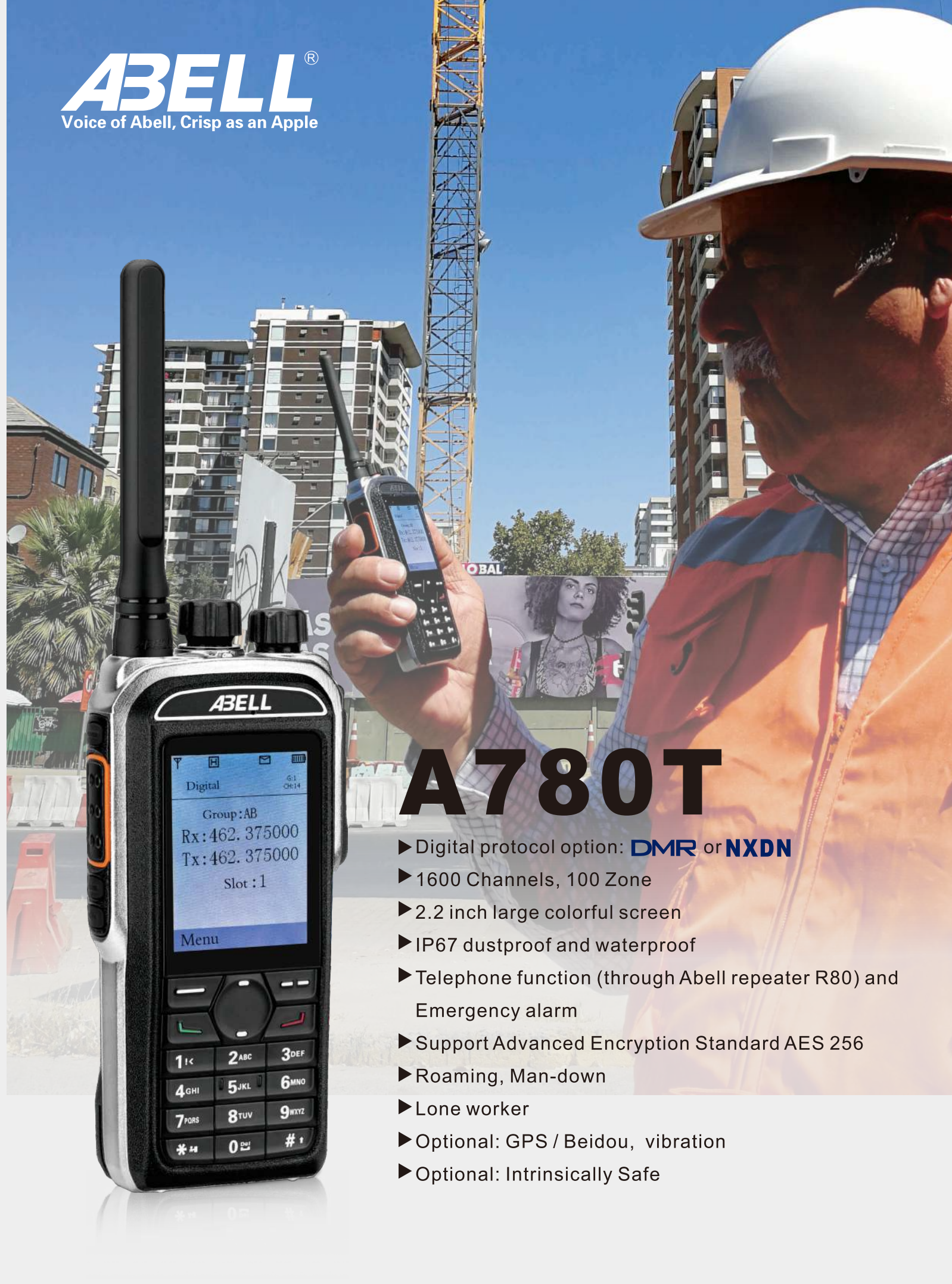
● All specifications are subject to change without notice due to continuous development.



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Dealer Area

ABELL®
Voice of Abell, Crisp as an Apple



A780T

- ▶ Digital protocol option: **DMR** or **NXDN**
- ▶ 1600 Channels, 100 Zone
- ▶ 2.2 inch large colorful screen
- ▶ IP67 dustproof and waterproof
- ▶ Telephone function (through Abell repeater R80) and Emergency alarm
- ▶ Support Advanced Encryption Standard AES 256
- ▶ Roaming, Man-down
- ▶ Lone worker
- ▶ Optional: GPS / Beidou, vibration
- ▶ Optional: Intrinsically Safe



DMR & analog dual mode, TDMA

2 slots in direct mode, 2 group of talking simultaneous at the same frequency

double efficiency for communication

save cost for frequency license application ensure the fluency at rush hour of communication

Selective call

User could generate the private call or group call by input the ID from the keypad convenient and efficient

Remote control

Versatile remote control function include: alarm, remote monitor, radio check, remote kill, remote stun, remote revive, call alert, text message, and work alone

Phone dial by DTMF

Via ABELL DMR repeater R-80, dial the cable phone or cell phone by DTMF input or One-click call.

Provide effective inter-connection to public phone system

Man down

Cost-effective and potentially lifesaving way of detecting if a worker has suffered a fall or had an accident

Lone Worker

Provide safety requirements for lone working tasks to protect the lone worker

Roaming

Switch frequency for communication automatically when use with the repeaters of different frequencies.

GPS position service in real-time (Optional)

GPS position tracking update in real time

Application



Government



Construction



Railway



Luxury Hotel



Property



Shopping mall

Standard Accessories



Rapid Charger
BC-780



Li-ion battery
AB-L1878 1800mAh



Belt clip
A720T



Antenna

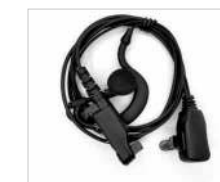


Hand strap

Optional Accessories



Multi AC adapter
CA-6



Earphone
AE-HH8-T



Programming cable
AD-UH8



Li-ion battery
AB-L2278 2200mAh