

General Specification

Model	A720T
Frequency Range	UHF: 350-390MHz; 400-470MHz; 450-520MHz; VHF: 136-174MHz
Channel Capacity	2 zone 32CH (16CH/zone)
Channel Spacing	25 kHz/12.5 kHz
Operation Temperature	-25°C~+60 °C
Frequency Stability	±1.5ppm
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)	125.9 mm * 54.7mm * 27.2mm
Weight	280g (with battery and antenna)

Receiver

	≤ 0.22uV(12dB SINAD)@25kHz
Sensitivity	≤ 0.25uV(12dB SINAD)@12.5kHz
	Digital 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	≥ 70 dB
Audio Output Power	≥ 1000 mW
Rated Audio Distortion	≤ 5%

Transmitter

RF Power	UHF:4W/VHF:5W 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%
Max. Frequency Deviation	≤ 5 kHz@25kHz ≤ 2.5 kHz @12.5kHz

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



ABELL INDUSTRIES CO., LTD
Website: www.abell.com.cn E-mail: sales@abell.com.cn

Dealer Area



A720T

Perfect Combination of Sci-tech and Art

- ◆ Digital protocol option: **DMR** or **NXDN** (Customized)
- ◆ High quality speaker, 1W audio power, louder and crisper;
- ◆ Strong anti-interference by discrete VCO and AFC solution;
- ◆ Battery: Li-ion 1800 mAh standard/ Li-ion 2200 mAh optional;
- ◆ IP67 dustproof and waterproof;
- ◆ Roaming
- ◆ Optional: Intrinsically Safe
- ◆ Optional: AES256 Encryption



Products Features

Elegant face

Ultra-slim design, elegant and handy.

Standard of quality

Compliance with international standards CE and FCC.

Solution and performance

Discrete VCO for RX narrow-band and sophisticated AFC (Auto Frequency Control) circuit design, ensure high anti-interference and excellent talking experience both in analog and digital mode.

Material

High quality PC material from GE PLASTIC, integrated with elegant and robust Al-alloy chassis.

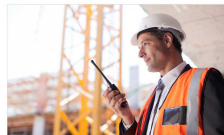
Product details

We are the first manufacturer to adopt the double layer waterproof structure on antenna base and knobs. Besides all current contact pads are gold plated.

Technical Highlights

- ◆ Dual mode (digital&analog);
- ◆ TDMA 2 slots at direct mode;
- ◆ Diversified remote emergency alarm;
- ◆ IP67 dustproof and waterproof, Complies with MIL-STD-810 C/D/E/F/G standards reliable for using in harsh environment.
- ◆ One touch call, including single call, group call, emergency call and so on;
- ◆ Up to 4 programmable keys, super convenient to program according to user's habit;
- ◆ Full Al-alloy chassis, rugged and durable;
- ◆ High quality 40MM 1W speaker with louder and crisper voice;
- ◆ Standard lithium battery 1800mAh high capacity, 2200mAh optional cover the need of ultra long time usage.

Application



Construction



Education



Utilities



Security



Hotel



Shopping Mall

Standard Accessories



Charger
BC-780



Li-ion battery
AB-L1878 1800mAh



Belt clip
A-720T



Antenna



Hand strap

Optional Accessories



Multi AC adapter
6BC-780



Speaker Microphone
AM-HH8-T



Speaker Microphone
AM-H4-T



Earphone
AE-HH8-T



Programming cable
AD-UH8



Li-ion battery
AB-L2278 2200mAh