Accessories

| Li-Ion Battery (1500mAh) BI1501 | Switching Power Adapter PS1026 | MCU Rapid-rate Charger (for Li-Ion/ Ni-MH batteries) CH10A04 | Belt Clip Bc12 | Leather Strap Ro04 |

Optional Accessories

| Remote Speaker Microphone (IP57) SM18N2 | Earpiece with on-MIC PTT & Transparent Acoustic Tube EAN16 | D-earset with in-Line Microphone EHN12 | Earbud with on-MIC PTT ESN10 | 3-Wire Surveillance Earpiece with Transparent Acoustic Tube (beige) EAN17 | Six-Unit Switching Power PS7002 | Leather Carrying Case (Swivel) LCY002 | Programming Cable (USB Port) Pc38 |

Specifications

General

Frequency Range	400-470MHz
Channel Capacity	256
Zone Capacity	32 (each with a maximum of 16 channels)
Channel Spacing	25 /20 / 12.5 KHz
Operating Voltage	7.4V (rated)
Battery	2000mAh (Li-Ion)
Battery Life (5-5-90 Duty Cycle, High TX Power) High-capacity 2000mAh Li-Ion Battery	Analog: Above 9 Hours Digital: Above 12 Hours
Frequency Stability	±1.5ppm
Antenna Impedance	50Ω
Dimensions (W*H*L)	119 X 55 X 33mm / 4.69*2.2*1.3 (inch)
Weight	320g /11.3oz
Military Standard	MIL-STD-810C/D/E/F
ESD	IEC-801-2KV
Front Case	PC+ABS
LCD Display	160*128 pixels, 65535 colors

Receiver

Sensitivity (Analog)	0.3μV (12dB SINAD) 0.22μV (Typical) (12dB SINAD) 0.4μV (20dB SINAD)
Sensitivity (Digital)	0.7μV /BER1% (Typical) 0.3μV /BER5% (Peak)
Adjacent Channel Selectivity TIA603 ETSI	60dB @ 12.5 kHz /70dB @ 20/25 kHz 60dB @ 12.5 kHz /70dB @ 20/25 kHz
Intermodulation TIA603 ETSI	70dB @ 12.5/20/25 kHz 65dB @ 12.5/20/25 kHz
Spurious Response Rejection TIA603 ETSI	70dB @ 12.5/20/25 kHz 70dB @ 12.5/20/25 kHz
S/N	40dB @ 12.5 kHz 43dB @ 20 kHz 45dB @ 25 kHz
Rated Audio Power Output	0.5W
Rated Audio Distortion	≤3%
Audio Response	+1~-3dB
Conducted Spurious Emission	-57 dBm

Transmitter

RF Power Output	4W/1W
FM Modulation	16KΦF3E @ 12.5 kHz 14KΦF3E @ 20 kHz 11KΦF3E @ 25 kHz
4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD 12.5kHz Data & Voice: 7K60FXE
Spurious and Harmonics	-36dBm<1GHz -30dBm>1GHz
Modulation Limiting	±2.5kHz @ 12.5 kHz ±4.0kHz @ 20 kHz ±5.0kHz @ 25 kHz
FM Noise	40dB @ 12.5 kHz 43dB @ 20KHz 45dB @ 25 kHz
Adjacent Channel Power	60dB @ 12.5 kHz 70dB @ 20/25kHz
Audio Response	+1~-3dB
Audio Distortion	≤3% (Typical)
Digital Vocoder Type	AMBE++
Digital Protocol	ETSI-TS102 361-1

Environmental Specifications

Operating Temperature	-30℃ ~ +60℃	-22°F ~ 140°F
Storage Temperature	-40℃ ~ +85℃	-40°F ~ 185°F
Dust & Water Intrusion	Per MIL-STD-810 C/D/E/F and IP57 Standards	
Shock & Vibration	Per MIL-STD-810 C/D/E/F Standards	
Humidity	Per MIL-STD-810 C/D/E/F Standards	

All Specifications are tested according to applicable standards, and subject to change without notice due to continuous development.

Applicable Military Standards 810 E/F

MIL-STD	810E		810F	
	Method	Procedure	Method	Procedure
Low Pressure	500.3	II	500.4	II
High Temperature	501.3	I/A, II/A1	501.4	I/Hot, II/Hot
Low Temperature	502.3	I/C3, II/C1	502.4	I/C3, II/C1
Temperature Shock	503.3	I/A, I/C3	503.4	I
Solar Radiation	505.3	I	505.4	I
Rain	506.3	I, II	506.4	I, III
Humidity	507.3	II	507.4	-
Salt Fog	509.3	I	509.4	I
Dust	510.3	I	510.4	I
Vibration	514.4	I/10, II/3	514.5	I/24
Shock	516.4	I, IV	516.5	I, IV

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Hytera™

PD782
Digital Two-Way Radio

DMR DMR standard

Fully compliant to the DMR standard, the PD782 keeps users well-informed in various complex scenarios and offers a solution of efficient real-time communication, staff management, and versatile functionalities. Built with an ergonomic design and user-friendly interface, the PD782 is your way of optimizing your organization's efficiency on the job.

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▶ **Versatile Voice Calls**
The intelligent signaling options of the PD782 support different types of voice calls, including Individual Call, Group Call and All Call.

▶ **Messaging**
The PD782 can transmit and receive short text messages and predefined status messages.

▶ **Emergency**
The PD782 is equipped with multiple emergency alarm methods such as Man Down and Silent Emergency, enabling you to get instant help in the case of a critical event.

▶ **Scan**
This function allows you to listen to communication activities on other channels so that you can keep a close track of your team members.

▶ **Software Upgradable**
With this feature, you can enjoy additional functions and upgrades without having to purchase a new radio.

Mechanical Design Features ››

Integrated GPS* antenna

IP57 WATER PROOF
Compliant with the MIL-STD-810 C/D/E/F and IP57 standards for immersion in water up to 1 Meter

Clear status updates tri-color LED indicator

Unique knob design allows for one handed operation

Large color HD LCD, big buttons, and user friendly interface allow for easy operation

Hytera
Digital channel 1
Menu   Options

Unique covered speaker with clear digital audio

Easy-grip and ergonomic design enhances comfort and appearance

Product Highlights ››

Superior Audio
With the combined application of narrowband codec and digital error-correction technology, the PD782 ensures better audio quality across a wider coverage area.

Spectrum Efficiency
Benefitting from TDMA technology, PD782 allows twice the number of users to share the same channel. This is a huge relief on increasing shortages in spectrum resources.

Durable Battery
Compared to an analog radio, the PD782 can obtain an extra 40% operating time between charges at the same output power.

Dual Modes (Analog & Digital)
The PD782 operates in either analog or digital mode and is compatible with analog systems currently in use, allowing organizations to easily migrate to the digital era.

Secure Communication*
The PD782 is furnished with an enhanced digital encryption capability. Eavesdropping issues are no longer a problem now that your communications are fully secured.

Ergonomic Design
Compact and light weight structural design makes the PD782 easy to carry and operate.

Large-sized HD color LCD display and big push-buttons facilitate your access to various functions.

The globally patented antenna design ensures convenient operation and remarkable GPS* performance.

Rugged and Submersible
The PD782 is strictly compliant to MIL-STD-810 C/D/E/F as well as IP57 standards, and is fully reliable in extreme environments.

Versatile Functionalities
In addition to conventional communication functions, the PD782 features versatile digital and optional functions such as Messaging, GPS*, Range Check*, Data Transmission*, Man Down and Call Alert.

Expansion Port
The PD782 allows for further development of additional functions using a reserved expansion port.

* Indicates functions available in later version.