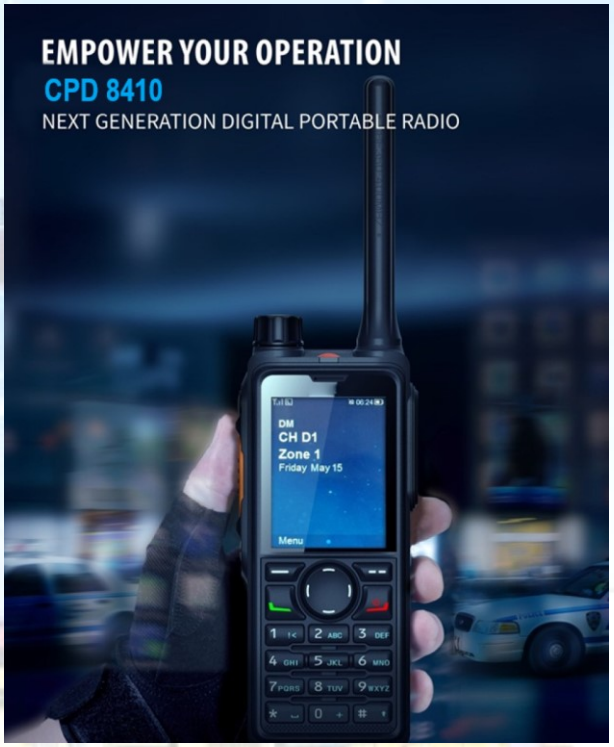
CPD8410

DMR Portable

Next Generation Digital Portable Radio

CPD8410 is next generation digital portable radio built base on the DMR standard with creative artwork on style and functions that refreshes the standards in digital two-way radios, providing more efficient and more reliable experience with loud and clear audio, powerful battery, intuitive user interface, remarkable portability and ruggedness.



HIGHLIGHTS

THINNER AND LIGHTER

The advanced radio mechanical design and a compact lithium polymer battery are discreetly made to CPD 8410, delivering the radio with only 29.5mm in thicknesses and 310g in weight. This is easy to carry and wear design benefits officers who highly focus on mission critical operation and no longer distracted by the size and weight.

LOUDER AND CLERAER AUDIO

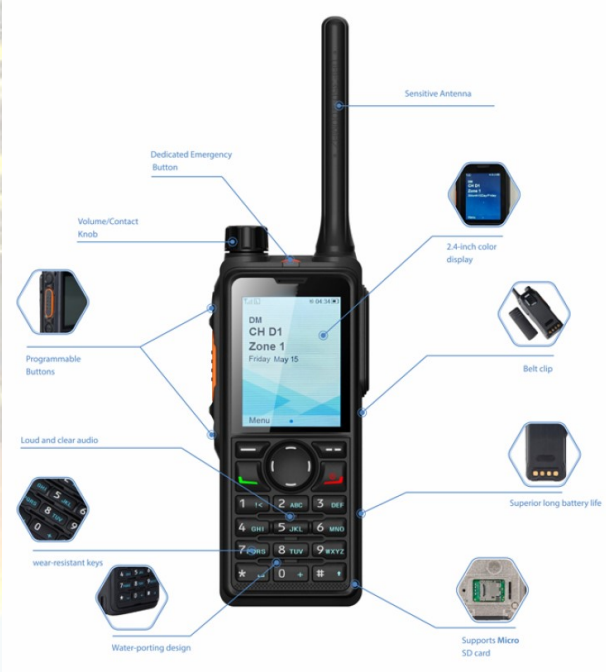
The CPD8410 has louder and clearer audio though an optimized forward-facing speaker and AI-based noise cancellation that decreases the unwanted background noise and howling. Water-porting technology is also used to drain out any water that gets into the speaker cavity, ensuring the audio clarity is maintained.

ENHANCED COVERAGE

CPD8410 extends the operation range and improve the talk range through high receiver sensitivity and high transmit power, stretching communications into areas where it simply was not possible before. The enhanced coverage improves the user distance coverage range, safety and reduces network cost as much as possible.

LONGER BATTERY LIFE

The battery is lighter and smaller than ever before, and still delivers a duty cycle of 5/5/90 on achieving 24 hours shift life with high transmit power. This powerful battery ensures a full day operation delivering critical or emergency calls and information.



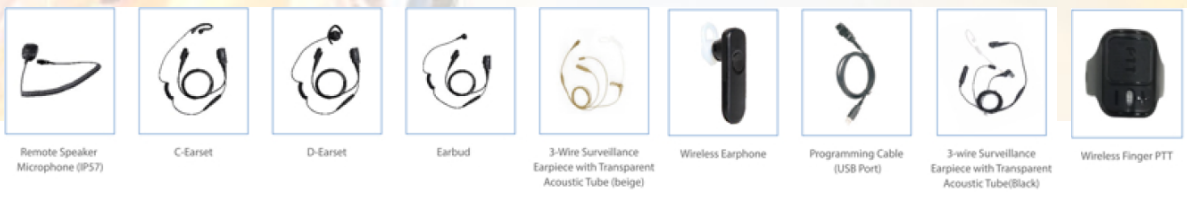
MORE INTUIVITE AND EFFICIENT

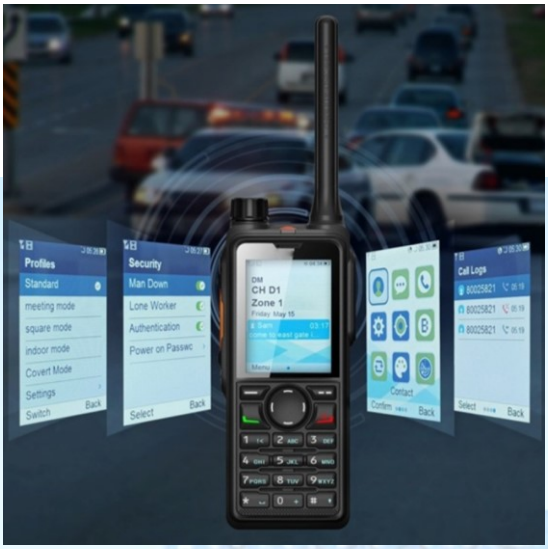
The 2.4-inch screen gets a brand-new intuitive UI to make the CPD8410 more efficient. The radio has Quick Access Menu that allows users to set the radio quickly. Messages are listed in conversation for quick reading and review. The Interface Switcher is added to the option of programmable buttons, allowing quick switch between up to four frequently accessed interfaces.

HIGHER LEVEL OF RUGGEDNESS

CPD8410 is designed as per the MIL-STD-810G and IP68. The IP68 rated is impervious to a depth of 2 meters for 4 hours, and also resilient to 2-meter drops onto concrete. No matter where the mission operation drives the users, the CPD8410 is reliable and stand up to the toughest environment.

Optional Accessories





Features

Work Mode
- Digital Conventional
- Analog Conventional
- Digital Trunking

Data Services
- Text Message
- Status Message
- Quick Text Message
- Clarity Transmission

Voice Services
- Private call
- Group call
- All call
- PSTN/PABX CALL
- Broadcast call
- Emergency call
- Alert call
- Call priority

Safety
- Emergency
- Man down
- Lone worker
- Authentication
- Air interface encryption
- End-to-End encryption
- Scrambler
- Disable/enable
- Micro SD card

Connection
- BT Audio
- BT Data
- High Efficiency GNSS
- GPS
- GLONAS
- Wide Range of Accessories
- Open API

Supplementary
- Profiles
- Interface Switcher
- QR code
- Roaming
- Covert Mode
- Radio Check
- Remote Monitor

Specifications

General	
Frequency Range	UHF: 350-470 MHz VHF: 136-174 MHz
Channel Capacity	1024
Zone Capacity	64
Zone Channel	256
Channel Spacing	12.5 kHz/20kHz/25kHz
Operation Voltage	7.7V (rated)
Battery	2400 mAh Li-polymer
Battery Life	24h (GNSS disabled) 20h (GNSS enabled)
Frequency Stability	+/- 0.5 ppm
Antenna Impedance	50 Ohm
Dimensions (Hx W x D)	132 x 55 x 29.5 mm
Weight (with antenna & battery)	310g
Display	LCD,320X240pixel, 262000 colors, 2.4 inch, 10 rows
BT	BT 5.0 BLE+EDR
Receiver	
Sensitivity	Analog: 0.18 μv (12dB SINAD) 0.16 μv (typical) (12dB SINAD) Digital: 0.18 μv /BER 5%
Adjacent Channel Selectivity	TIA-603: 60dB@12.5kHz / 70dB@20/25 kHz ETSI: 60dB@12.5kHz / 70dB@20/25 kHz
Intermodulation	TIA-603: 70dB@12.5/20/25 kHz ETSI: 65dB@12.5/20/25 kHz
Spurious Response Rejection	TIA-603: 70dB@12.5/20/25 kHz ETSI: 70dB@12.5/20/25 kHz
Blocking	TIA-603: 80dB, ETSI: 84dB
Hum and noise	40dB@12.5kHz;43dB@20kHz; 45dB@25kHz;
Rated Audio Power Output	0.5W
Rated Audio Distortion	≤3%
Audio Response	+1~-3dB
Conducted Spurious Emission	<-57dBm

Transmitter	
RF Power Output	UHF: 1W/4W VHF: 1W/5W
FM Modulation	11K0F3E@12.5kHz 14K0F3E@20kHz 16K0F3E@25kHz
4F5K Digital Modulation	12.5kHz Data Only: 7K60FXD 12.5kHz Data & Voice: 7K60FXW
Conduced/Radiated Emission	-36dBm<1GHz; -30dBm>1GHz
Modulation Limiting	±2.5kHz@12.5kHz; ±4kHz@20kHz; ±5kHz@25kHz
FM Hum& Noise	40dB@12.5kHz;43dB@20kHz; 45dB@25kHz
Adjacent Channel Power	60dB@12.5kHz;70dB@20/25kHz
Audio Response	+1~-3dB
Audio Distortion	≤3%
Digital Vocoder Type	AMBE+2™
Environmental	
Operating Temperature	-30°C~60°C
Storage Temperature	-40°C~85°C
ESD	IEC 61000-4-2 (level 4) ±8kV (contact) ±15kV (air)
Dust and Water Protection	IEC60529-IP68
Humidity	MIL-STD-810G
Shock and Vibration	MIL-STD-810G
Location services	
Accuracy specs are for long term tracking (Satellites visible at nominal -130dBm)	
GNSS	GPS, GLONASS, BDS
TTFF (Time To First Fix) Cold Start	<1 min (typical)
TTFF (Time To First Fix) Hot tart	<10 sec (typical)
Horizontal Accuracy	<5 m (probable at -130dBm)

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