Dual-mode Rugged Radio
PDC690
ALL IN ONE ALL IN CONTROL
MISSION CRITICAL FOCUSED

Overview

Hytera PDC690 dual-mode rugged radio combines a mission-critical DMR radio with an Android-based smartphone in a single device. it harnesses the power of narrowband andbroadband technologies to provide mission-critical voice call photo and video taking, positioning, and more. Thisinnovative radio enables seamless communications between DMR network and public network such as 2G, 3G, LTE, and WLAN.

As a professional rugged radio, the PDC690 is engineered for effortless usability. The new Type-C universal interface allows users to charge their devices conveniently while performing tasks. Additionally, the device is built to be rugged, dustproof, waterproof, and shock-resistant, making it ideal for diverse and challenging outdoor emergency rescue scenarios.

Top-Screen
Power saving
Easy-to-read tilt display

Color Ring

Dual-Camera
Rear 13MP and front 8MP

Volume/Contacts Knob

Tough Main Screen
Industrial-grade display

Gorilla Glass
Scratch and oil proof
anti impact and fingerprint

Smart Key
Function varies from missions

Large PTT Button

Programmable Keys

Programmable Keys

Type-C
Convenient charging

Key Features

All-in-one device

Dual screens

IP68

Type-C

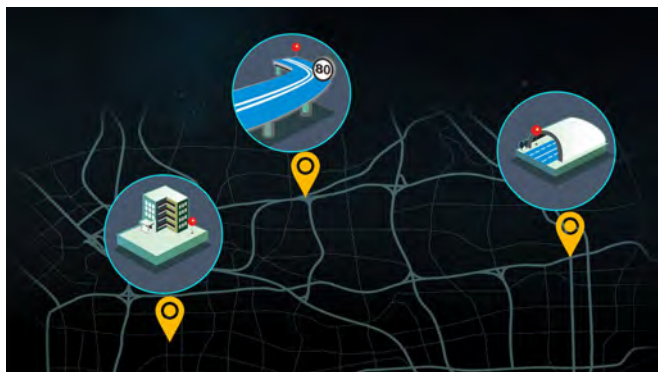Loud and clear audio

AI-based noise cancellation

Remote control

Precise positioning

The PDC690 provides fast and accurate positioning to track people or devices, indoor and outdoor. The GPS, Galileo, GLONASS, QZSS, BDS, and A-GPS are used for outdoor positioning, while the location-based service (LBS) and WLAN are adopted for indoor positioning.

Live streaming

Thanks to the dual HD cameras, the PDC690 allows you to capture on-site pictures and videos, and then send them to another radio or command center in real time to dramatically improve situational awareness. The PDC690 also supports the external camera.

Automatic switch

The PDC690 can automatically switch between DMR network and LTE network. Registering with both networks using the same ID, the PDC690 can always select the optimal one to deliver smooth and reliable voice communications everywhere, indoors or out.

Purpose-built app

With the Android system, the PDC690 can support system-level apps developed by Hytera and other third-party apps. This helps you communicate and respond efficiently.

Type-C charging port

Adding a Type-C port meets the needs of fast charging of devices. It can also be charged conveniently at the front-line combat site without the need to carry a traditional charger. Optional 4000mAh battery with long battery life supports all-weather outdoor operations.

Loud and clear audio

Using the enlarged front chamber technology and professional acoustic design, the PDC690 can output sound at up to 128 dB. To ensure crystal and clear audio in noisy environments, the PDC690 adopts AI-based noise cancellation, echo cancellation, and wind noise reduction technologies.

Rugged and durable

Rated at IP68 and ESD IEC Level 4, the PDC690 withstands water, dust, and electrostatic discharge. It can also withstand 1.5-meter drop from all angles. The industrial-grade touchscreen stands up to continuous use in any weather. All these help the PDC690 perform well in harsh environments.

All-in-one device

With highly integrated and modular design, the PDC690 combines a DMR radio and a smartphone into a single device. So you do not need to carry two separate handsets for accessing voice, data, video, and more.

All-round security assurance

The PDC690 can secure the voice and data through authentication, software and hardware encryption, or more. TrustZone protects the system; full-disk encryption (FDE) protects the user data; air interface encryption (AIE) and end-to-end encryption (E2EE) protect the voice and data communication; and remote control helps you manage radios.

Smart management

You can remotely manage radios in batches, including upgrade, programming, permission control, key configuration, app management, device health management, and data backup and recovery.

Accessories

Standard

2,400 mAh Li-Poly Battery BP2402	Charger (2A) CH20L13	Power Adapter (2A)	Belt Clip BC39	Antenna	Strap RO03

Optional

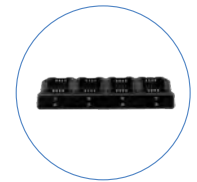|					
BT Earpiece EHW08	Wireless PTT POA121	Wireless Remote Speaker Microphone SM27W2	PTT&MIC Controller ACN-02P	Water-proof Remote Speaker Microphone SM26N1-P	Programming Cable PC156
Receive-only Earbud ES-01	Receive-only Swivel Earset EH-02	C-Earset EHS24	4,000 mAh Li-poly Battery BP4005	Charger (1A) CH10L29	Multi-unit Charger MCA25

Specifications

Wireless Data Communication	DMR	UHF:340~470MHz
	LTE	3GPP LTE FDD-LTE:B1/B2/B3/B4/B5/B7/B8/B20/B26/B28 TDD-LTE: B34/B38/B39/B40/B41
	CDMA	CDMA 1xRTT BC0 CDMA2000 1xEV-DO BC0
	WCDMA	B1/B2/B4/B5/B8
	GSM	850/900/1800/1900MHz
	WLAN	support
	NFC (Optional)	13.56MHz
	Positioning	GPS/BDS/GLONASS/Galileo/QZSS/A-GPS Position performance for open zone : TTFF (Cold boot)< 1minute Horizontal accuracy<5m(95% probable at -130dBm)
General	Dimensions(H xW x D)	145.3mmx60mmx30.3mm(2400mAh battery) 145.3mmx60mmx35.2mm(4000mAh battery)
	Ports	accessory port: 13pin ging port: Type-C
	Camera	front: 8MP, Fixed Focus ear: 13MP, Auto Focus
	Card Slots	2 Nano SIM cards 1 Micro SD card 1 Encryption card for Narrowband
	Working Voltage	7.7V (standard)
	Battery	standard: 2400 mAh optional: 4000 mAh
Transceiver	Channel Spacing	12.5kHz/20kHz/25kHz
	TX Power	UHF: 1W/4W
	Digital Vocoder Type	AMBE+2™,NVOC
Environment	Dust and Water Proofing	IP68
	ESD	IEC 61000-4-2 (Level 4), ±8kV (Contact), ±15kV (Air)