



PROFESSIONAL INTRINSICALLY SAFE DMR PORTABLE RADIO

Empower Your Operation





- Class I, Division 1, Group C-D, T4;
 Class II, Class III, Division 1, Group E-G, T135°C;
 Class I, Division 2, Groups A D, T4;
 - Ta: -20°C to 60°C
- Explosion-proof Battery Identification
- Al-based Noise Cancellation Technology
- Universal Type-C port





Hytera



Application Scenarios









Firefighting

Chemical Factory Oil Refinery Mining

Safety that thinks ahead.



UL913 Intrinsically safe Peace of mind in hazardous area

Certified by the SGS agency and in strict compliance with the UL913 and TIA4950 standards, the radio is specifically designed for use in dangerous conditions with potentially combustible dust, flammable liquids, and explosive gas. No matter how extreme the working environment is, the radio can always provide reliable and efficient communications.



Multiple safety mechanisms Prepare for the unexpected

The radio has a suite of proactive approaches to safety. It can intelligently detect whether the battery is anti-counterfeiting and explosion-proof, preventing the risk or fire and explosion posed by the use of non-anti-counterfeiting and non-explosion-proof battery. Also this radio provides Lone Worker and Emergency Alarm to make your people call for help quickly in case of an emergency, and the radio can send its location to the command center at the same time so that your people can be easily and accurately pinpointed thanks to the GPS and GLONASS positioning systems.



Superior audio quality Make voice hear and heard, clearly

From high-power speaker to Al-based noise cancellation, as innovated and tested by Hytera Audio Lab*, the radio makes your people hear and be heard clearly even in noisiest environments. The Al-based noise cancellation technology helps the radio filter out the ambient noise including breathes, extract the human voice, and eliminate the annoying howling occurred by radios that are 30 cm away from each other.

* Hytera Professional Lab.

High RX sensitivity Stay connected, stay safe.

With enhanced RF solution from Hytera RF&Antenna Lab* adopted, the receiving sensitivity of every frequency band is improved up to 0.18 μ V (-122 dBm). No matter whether the radio is in the area with weaker signal strength or at long range, it can always provide reliable communications for individuals or groups across your team to enhance safety and efficiency.

* Hytera Professional Lab.





General	HDEGV
Fraguancy Panga	HP56X
Frequency Range	400-470MHz 136-174MHz
Channel Capacity	512
Zone Capacity	32
Zone Channels	32
Channel Spacing	12.5kHz/20kHz/25kHz
Operating Voltage	7.4V (rated)
Battery Life (E/E/00)	2,400 mAh Li-ion
Battery Life (5/5/90) Frequency Stability	Digital: 23h (GPS off), Digital: 21h (GPS on)
	±0.5ppm
Antenna Impedance Dimensions (H x W x D)	50 Ω
	119 mm x 55 mm x 33.5 mm
Weight (with antenna & battery)	321g
BT	BT 5.3
Display	1.45 inch LCD, 240x320 pixels, colorful
Receiver	
Sensitivity	Analog: 0.18μV (12dB SINAD); 0.16μV (Typical) (12dB SINAD) Digital: 0.18μV/BER5%
Adjacent Channel Selectivity	TIA-603: 60dB@12.5kHz; 70dB@20/25kHz ETSI: 60dB@12.5kHz; 70dB@20/25kHz
Intermodulation	TIA-603: 70dB@12.5/20/25kHz ETSI: 65dB@12.5/20/25kHz
Spurious Response Rejection	TIA-603: 70dB@12.5/20/25kHz ETSI: 70dB@12.5/20/25kHz
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
4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD 12.5kHz Data and Voice: 7K60FXW
Conducted/Radiated Emission	-36dBm<1GHz; -30dBm>1GHz
Modulation Limiting	±2.5kHz@12.5kHz;±4.0kHz@20kHz; ±5.0kHz@25k
FM Hum & Noise	40dB@12.5kHz; 43dB@20kHz; 45dB@25kHz
Adjacent Channel Power	60dB@12.5kHz; 70dB@20/25kHz
Audio Response	+1 to -3dB
Audio Distortion	≤3%
Digital Vocoder Type	AMBE+2 [™] /SELP
Environmental	
Operating Temperature	-20°C* to +60°C
Storage Temperature	-40°C~ +85°C
ESD	IEC 61000-4-2 (Level 4) ±8kV (contact); ±15kV (air)
Dustproof & Waterproof	IEC60529-IP67
Humidity	MIL-STD-810H
Shock and Vibration	MIL-STD-810H
Location Services	
GNSS	GPS, GLONASS
TTFF(Time To First Fix) Cold Start	<1minute
	<10seconds
TTFF(Time To First Fix) Hot Start	
TTFF(Time To First Fix) Hot Start Horizontal Accuracy	<5meters

ACCESSORIES Standard Optional Adapter(12V/1A) Charger Li-ion battery Antenna 2400mAh Belt clip Strap Waterproof Remote Heavy duty Speaker Microphone(IP67) Noise-cancelling Headset • Programming cable • 2-wire Surveillance (USB port) Earpiece with Transparent Acoustic Tube(Black)

Multi-unit charger



Hytera Communications Canada

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