

Introducing the world's thinnest & smallest digital covert radio:

X1e

Hytera X1e Covert Radio, fully compliant to DMR open standard of ETSI, emerges as the world's smallest DMR radio. Perfect combination of structural rigidity, versatile functionalities, and refined design; convenient application development facilitated by USB port; and worry-free handling achieved by IP67 protection.

All comes with a surprisingly small size: 18mm thin.



Hytera X1e









Innovative Design



- ① Ease of use:
easy to use with the rugged body as thin as 18mm, professional wireless headsets or collar microphone*, palm controller and flexible antenna.
- ② Full RF power:
4W (UHF) / 5W (VHF)
- ③ IP67:
one-meter submersion up to 30 minutes.
- ④ Durability:
passing of HALT (Highly Accelerated LifeTest) and MIL-STD-810 C/D/E/F/G compliance.

*More accessories, coming soon.

Other features

-  Open USB interface:
Open USB port facilitates secondary and application development.
-  GPS positioning:
The built-in GPS module supports GIS applications.
-  Dual modes (analog & digital):
Dual modes (analog & digital) operation ensures a smooth analog-to-digital migration.
-  Versatile voice call:
Versatile voice calls include individual call, group call and al-call.
-  Vibration:
Vibration alerts the reception of voice call and message.
-  IP service:
Multiple IP functionalities are allowed when connected with a PC via IP address.
-  Various analog signaling types:
Multiple advanced analog signaling, including HDC1200, DTMF, 2-Tone and 5-Tone, provides more expansion capacity.
-  Software upgradable:
Upgradable software enables new features without buying a new radio.



Specifications

General	Frequency Range(MHz)	VHF: 136-174MHz UHF1: 400-470MHz UHF3: 350-400MHz		
	Channel Capacity	32		
	Channel Spacing	25/20/12.5 KHz		
	Operating Voltage	7.4V (rated)		
	Battery	1100mAh (Li-Ion)		
	Battery Life (5-5-90 Duty Cycle, High TX Power)	Analog: Above 8 Hours Digital: Above 10 Hours		
	Frequency Stability	± 1.5ppm		
Antenna Impedance	50 Ω			
Dimensions (H×W×D) (with standard battery, without antenna)	119.5 X 57 X 18 mm			
Weight	200g			
Front Case	PC & Metal frame			
Transmitter	RF Power Output	VHF High Power: 5W VHF Low Power: 1W UHF1/UHF3 High Power: 4W UHF1/UHF3 Low Power: 1W		
	FM Modulation	11K Φ F3E @ 12.5 kHz 14K Φ F3E @ 20 kHz 16K Φ F3E @ 25 kHz		
	4FSK Digital Modulation	12.5kHz Data Only: 7K60FXD 12.5kHz Data & Voice: 7K60FXW		
	Conducted/Radiated Emission	36dBm<1GHz 30dBm>1GHz		
	Modulation Limiting	± 2.5kHz @ 12.5 kHz ± 4.0kHz @ 20 kHz ± 5.0kHz @ 25 kHz		
	FM Hum & Noise	-40dB @ 12.5 kHz -43dB @ 20KHz -45dB @ 25 kHz		
	Adjacent Channel Power	60dB @ 12.5 kHz 70dB @ 20/25 kHz		
	Audio Response	+1 ~ -3dB		
	Audio Distortion	≤3%		
	Digital Vocoder Type	AMBE++ or SELP		
	Digital Protocol	ETSI-TS102 361-1, 2&3		
	Receiver	Sensitivity	Analog	0.3iV (12dB SINAD) 0.22iV (Typical) (12dB SINAD) 0.4iV (20dB SINAD)
			Digital	0.3 μ V /BER5%
Selectivity TIA-603 ETSI		60dB @ 12.5 kHz / 70dB @ 20&25 kHz 60dB @ 12.5 kHz / 70dB @ 20&25 kHz		
Intermodulation TIA-603 ETSI		70dB @ 12.5/20/25 kHz 65dB @ 12.5/20/25 kHz		
Spurious Response Rejection TIA-603 ETSI		70dB @ 12.5/20/25 kHz 70dB @ 12.5/20/25 kHz		
S/N		40dB @ 12.5 kHz 43dB @ 20KHz 45dB @ 25 kHz		
Rated Audio Power Output		0.5W		
Rated Audio Distortion		≤3%		
Audio Response		+1 ~ -3dB		
Conducted Spurious Emission		< -57 dBm		
Environmental Specifications	Operating Temperature	-30°C ~ +60°C		
	Storage Temperature	-40°C ~ +85°C		
	ESD	IEC 61000-4-2 (level 4) ± 8kV (contact) ± 15kV (air)		
	American Military Standard	MIL-STD-810 C/D/E/F/G		
GPS	Dust & Water Intrusion	IP67 Standard		
	Humidity	Per MIL-STD-810 C/D/E/F/G Standard		
	Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard		
TTFF (Time To First Fix) Cold Start	<1 minute			
TTFF (Time To First Fix) Hot Start	<10 seconds			
Horizontal Accuracy	<10 meters			



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