

The world's thinnest & smallest full power covert radio

X1e

Hytera X1e Covert Radio, fully compliant to DMR open standard of ETSI, emerges as the world's smallest full power DMR radio. Perfect combination of structural rigidity, versatile functionalities, and refined design; secure communication ensured by AES encryption algorithm & 256 digits dynamic encryption key; convenient application development facilitated by built-in Bluetooth and 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 IP67 compliance

Comply with IP67 requirements, withstanding one-meter submersion up to 30 minutes.

③ Rugged & reliable

Comply with MIL-STD-810 C/D/E/F/G standards and passing of HALT (Highly Accelerated Life Test) .



Hytera X1e

Features



Advanced encryption

AES encryption algorithm & 256 digits dynamic encryption key ensures secure communication.



Support Hytera Bluetooth earpieces

The radio supports Hytera Bluetooth earpieces, facilitating operations



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 calls

Versatile voice calls include individual call, group call and all-call.



Vibration

.Vibration alerts the reception of voice call and message



Rich signaling

Support multiple advanced analog signaling, including HDC1200, DTMF, 2-Tone* and 5-Tone, providing more expansion capacity.



Software upgradable

Upgradable software enables new features without buying a new radio.

Versatile accessories for specific tasks



Accessories

Li-ion Battery 1100mAh
 Switching Power(US-standard) 12V 1A
 MCU Dual Charger
 3-wire Surveillance Earpiece with
 Transparent Acoustic Tube (Beige)
 3-wire Surveillance Earpiece with
 Transparent Acoustic Tube (Beige)
 Vest

BL1103
PS1014
CH10L15
EAN21
EAN19

High-capacity Battery & Belt Charger:

For users require long-time operation, a high-capacity battery with belt charger is undoubtedly the best match. The 1800mAh Li-ion battery of X1e enables it to work for up to 14 hours, and the belt charger further extends its operation time with convenient charging.

Li-ion Battery 1800mAh
 Belt Charger

BL1809
CH04L01

Audio Accessories

Both wireless earphone and, Bluetooth earpiece are available for X1e.

Wireless Earphone **EWN07/EWN08**
 Bluetooth earpiece

Specifications

General	Frequency Range(MHz)	136-174MHz 400-470MHz 350-400MHz
	Channel Capacity	32
	Channel Spacing	25/20/12.5KHz
	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	±0.5ppm
	Antenna Impedance	50Ω
	Dimensions (H)W(D) (with standard battery, without antenna)	119.5 X 57 X 18mm
	Weight	about 200g
Front Case	PC & Metal frame	

Receiver	Sensitivity	Analog	0.3µV (12dB SINAD) 0.22µV (Typical) (12dB SINAD) 0.4µV (20dB SINAD)
		Digital	0.3µV /BERS%
	Selectivity TIA-603 ETSI		60dB @ 12.5KHz / 70dB @ 20&25KHz 60dB @ 12.5KHz / 70dB @ 20&25KHz
	Intermodulation TIA-603 ETSI		70dB @ 12.5/20/25KHz 65dB @ 12.5/20/25KHz
	Spurious Response Rejection TIA-603 ETSI		70dB @ 12.5/20/25KHz 70dB @ 12.5/20/25KHz
	S/N		40dB @ 12.5KHz 43dB @ 20KHz; 45dB @ 25KHz
	Rated Audio Distortion		±3%
Audio Response		+1 ~ -3dB	
Conducted Spurious Emission		< -57dBm	

All specifications are subject to change without notice due to continuous development.

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/F3E @ 12.5KHz 14K/F3E @ 20KHz 16K/F3E @ 25KHz
	4FSK Digital Modulation	12.5KHz Data Only: 7K60FXD 12.5KHz Data & Voice: 7K60FXW
	Conducted/Radiated Emission	36dBm<1GHz 30dBm>1GHz
	Modulation Limiting	±2.5KHz @ 12.5KHz ±4.0KHz @ 20KHz ±5.0KHz @ 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++ or SELP
Digital Protocol	ETSI-TS102 361-1, 2&3	

Environmental Specifications	Operating Temperature	-30j ~ +60j
	Storage Temperature	-40j ~ +85j
	ESD	IEC 61000-4-2Elevel 4E ±8kV (contact) ±15kV (air)
	American Military Standard	MIL-STD-810 C/D/E/F/G
	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	

GPS	TTF(TIME TO FIRST FIX) Cold Start	<1 minute
	TTF(TIME TO FIRST FIX) Hot Start	<10 seconds
	Horizontal Accuracy	<10 meters



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