

## Target Customers

Mission critical users:  
special police, anti-drug/anti-smuggling officer, senior guard.

## 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	50 Ω		
	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	0.3 µV /BER5%
	Selectivity TIA-603 ETSI	60dB @ 12.5KHz / 70dB @ 20&25KHz 60dB @ 12.5KHz / 70dB @ 20&25KHz	
		Intermodulation TIA-603 ETSI	
	Spurious Response Rejection TIA-603 ETSI	70dB @ 12.5/20/25KHz 70dB @ 12.5/20/25KHz	
		S/N	
	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 UHF 1/UHF3 High Power: 4W UHF 1/UHF3 Low Power: 1W
	FM Modulation	11K ΦF3E @ 12.5KHz 14K ΦF3E @ 20KHz 16K ΦF3E @ 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	-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
	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

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.



X1e



Hytera Communications Corporation Limited

Address: HYT Tower, Hi-Tech Industrial Park North, Beihuan Rd.,  
Nanshan District, Shenzhen, China  
Tel: +86-755-2697 2999 Fax: +86-755-8613 7139 Post: 518057  
Http: //www.hytera.com Stock Code: 002583.SZ

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## 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 LifeTest) .



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.

## Work with *SmartDispatch* dispatcher system and Portable repeater to achieve flexible networking & dispatching

For mission critical users like special police, anti-drug/anti-smuggling officer, senior guard, etc., only a convert terminal is not enough to accomplish tasks and ensure safety. This is where a complete communications solution demanded.

### *SmartDispatch*

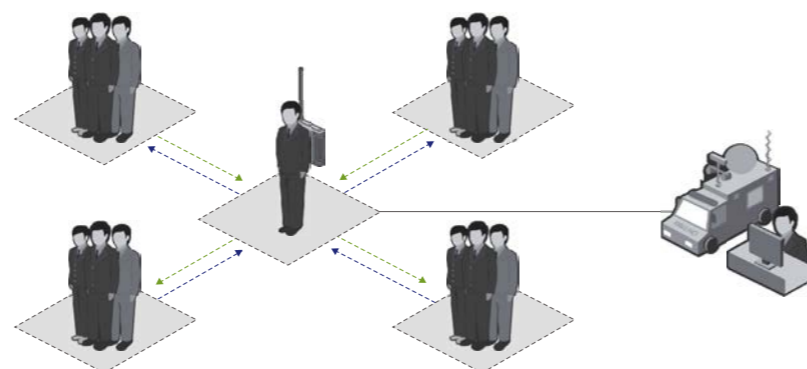
A digital dispatching system developed on Hytera digital platform compliance to ETSI DMR open standard, is designed for efficient communication, management and dispatching of professional users.



- **All types of voice calls**  
*SmartDispatch* supports all types of calls that meet your various dispatching operation needs, include private call, group call, all call. Every *SmartDispatch* dispatcher client console is able to dispatch up to 8 voice dispatching channels. Through these dispatching channels, *SmartDispatch* could receive all types of calls as well as trigger any type of call through user friendly and easy to operate user interface.
- **Voice recording & playback**  
All incoming calls and outgoing calls will be recorded in *SmartDispatch* server. This includes all types of DMR voice calls and PSTN interconnected calls. Users can retrieve recorded voice and playing back at any time so that important conversation is not missed. All recorded voices are easily can be searched through time, caller ID or callee ID.
- **Radio kill & radio revive**  
*SmartDispatch* is able to kill a radio unit remotely when the radio unit is under illegal usage or being stolen. The killed radio is able to power on but not able to perform transmitting or receiving. *SmartDispatch* is also able to activate a killed radio when necessary.
- **Real-time tracking**  
This feature allows *SmartDispatch* to track the location of any radio units in real-time. Users have an option to display the location route on the mapping. On critical missions, the dispatcher can send staff nearby for check and help when the route of a patroller halted.

## Portable repeater for flexible networking

Take the portable repeater to extend coverage area, allow flexible networking and high mobility in tasks, which is especially helpful in tracking, body guarding and mobile dispatching.



Learn more about *SmartDispatch* and the backpack repeater, please visit [www.hytera.com](http://www.hytera.com) or contact our local dealers and sales representatives.



Portable repeater

## Versatile accessories for specific tasks



Pictures above are for reference only and may vary from actual products.

## Accessories

Li-ion Battery 1100mAh	BL1103	High-capacity Battery & Belt Charger:	Audio Accessories
Li-ion Battery 1800mAh	BL1809	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.	Both wireless earphone and, Bluetooth earpiece are available for X1e.
Switching Power(US-standard) 12V 1A	PS1014		Wireless Earphone EWN07/EWN08
MCU Dual Charger	CH10L15		Bluetooth earpiece
3-wire Surveillance Earpiece with Transparent Acoustic Tube (Beige)	EAN21		
3-wire Surveillance Earpiece with Transparent Acoustic Tube (Beige)	EAN19	Li-ion Battery 1800mAh Belt Charger	BL1809 CH04L01