

## Target Customers

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

## 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	1800mAh (Li-Ion)		
	Battery Life (5-5-90 Duty Cycle, High TX Power)	Digital: about 10 Hours (1100mAh Li-Ion battery) Digital: about 15 Hours (1800mAh Li-Ion battery)		
	Frequency Stability	± 1.5ppm		
	Antenna Impedance	50 Ω		
	Dimensions (HxWxD) (with battery, without antenna)	119.5 X 57 X 18mm (1100mAh Li-Ion battery) 119.5 X 57 X 23mm (1800mAh Li-Ion battery)		
	Weight	about 220g (1100mAh Li-Ion battery) about 260g (1800mAh Li-Ion battery)		

Receiver	Sensitivity	Analog	0.3μV (12dB SINAD) 0.22 μV (Typical) (12dB SINAD) 0.4μV (20dB SINAD)
		Digital	0.3μV /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 UHF1/UHF3 High Power: 4W UHF1/UHF3 Low Power: 1W
	FM Modulation	11K0F3E @ 12.5KHz 14K0F3E @ 20KHz 16K0F3E @ 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 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 metres

The world's thinnest & smallest  
full power digital portable radio

# X1e

Hytera X1e Digital Portable Radio complies fully with ETSI open standard, 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 digit dynamic encryption keys; 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 (1100mAh Li-ion battery) thin.



X1e



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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  
Complies with IP67 requirements, withstanding up to 1m submersion for 30 minutes or more.
- ③ Rugged & reliable  
Complies with MIL-STD-810 C/D/E/F/G standards and passes HALT (Highly Accelerated Life Test).



Hytera X1e

## Features

- Advanced encryption**  
AES encryption algorithm & 256 digit dynamic encryption keys ensures secure communication.
- Supports Hytera Bluetooth accessories\***  
The radio supports Hytera Bluetooth accessories: EHW02, Bluetooth earpiece; POA47, Bluetooth Ring PTT.
- Open USB interface**  
Open USB port facilitates secondary and application development.
- GPS positioning**  
The built-in GPS module supports GIS applications.
- Dual mode (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**  
Supports 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.

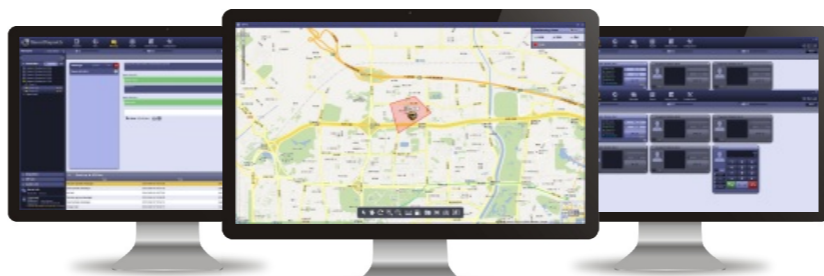
\*Available in future release.

## 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, senior executives, etc., only a professional terminal is not enough to accomplish tasks and ensure safety. This is where a complete communications solution demanded.

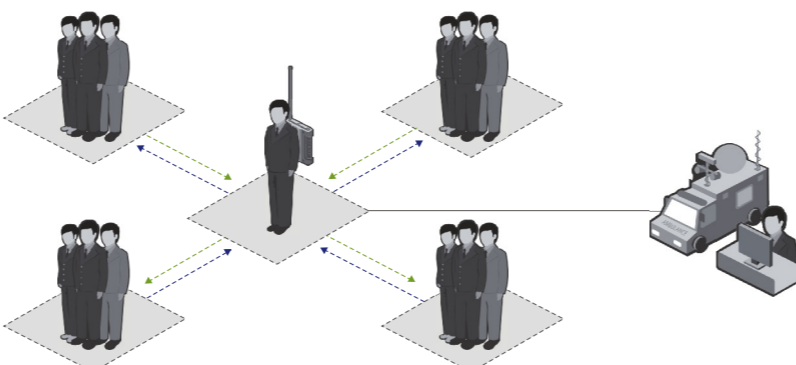
### *SmartDispatch*

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



### Portable repeater for flexible networking

Take the portable repeater to extend the 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.

- All types of voice calls  
*SmartDispatch* supports all types of calls that meet your various dispatching operational 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. 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

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## Versatile accessories for specific tasks



### Accessories

Li-ion Battery 1100mAh	BL1103	Wireless Earpiece With Dual-PTT	EHW02
Li-ion Battery 1800mAh	BL1809	Bluetooth Ring PTT	POA47
Switching Power(US-standard) 12V 1A	PS1014	Belt Charger	CH04L01
MCU Dual Charger	CH10L15	Blet Clip	PCN005
3-wire Surveillance Earpiece with Transparent Acoustic Tube (Beige)	EAN21	Digital Wireless Covert Earpiece With in-Line Controller (Neckloop Sensor)	EWN07
Remote C-Earset	EHN21	Digital Wireless Covert Earpiece (Flatpack Sensor)	EWN08
Remote Swivel Earset	EHN20	Detachable Earpiece with Transparent Acoustic Tube	EAN22
Remote Earbud	ESN14	3-wire Dual-PTT Surveillance Earpiece with Transparent Acoustic Tube (Beige)	EAN19
Vest	NCN009		
NiTi Antenna			

#### High-capacity Battery & Belt Charger:

BL1809, Li-ion Battery 1800mAh; CH04L01, 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 15 hours, and the belt charger further extends its operation time with convenient charging.

#### Audio Accessories

EWN08, Wireless Earphone; EHW02, Bluetooth earpiece; POA47, Bluetooth Ring PTT. X1e has a variety of audio accessories for flexible use in actual environments.