

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

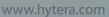


Hytera X1e Digital Portable Radio complies fully with ETSI open standard, emerges as the world's smallest full power DMR radio. Perfect combination of structural rigidity, versatile functionalities, and refined design; secure communication ensured by AES encryption algorithm & 256 digit dynamic encryption keys; convenient application development facilitated by built-in BT and USB port; and worry-free handling achieved by IP67 protection.

All comes with a surprisingly small size: 18mm (1100mAh Li-ion battery) thin.







# **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 BT accessories

The radio supports Hytera BT accessories: EHW02, BT earpiece; POA47, BT 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

Upgrade software enables new features without buying a new radio; X1e can also be switched into MPT and DMR trunking modes with corresponding license applied to the same hardware.

# Work with Hytera dispatch 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.. When a professional terminal is insufficient enough to accomplish the tasks required and ensure safety. This is where a complete communications solution is demanded.

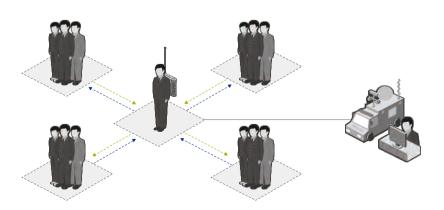
# Hytera dispatch system

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 Hytera dispatch system and the backpack repeater, please visit www.hytera.com or contact our local dealers and sales representatives.

### • All types of voice calls

Hytera dispatch system supports all types of calls that meet your various dispatching operational needs, include private call, group call, all call. Every Hytera dispatch system dispatcher client console is able to dispatch up to 8 voice dispatching channels. Through these dispatching channels, Hytera dispatch system 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 Hytera dispatch system 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

Hytera dispatch system is able to kill a radio unit remotely when the radio unit is under illegal use or has been stolen. The killed radio is able to power on but unable to transmit or receive. Hytera dispatch system is also able to activate a killed radio when necessary.

### · Real-time tracking

This feature allows Hytera dispatch system to track the location of any radio units in real-time. Users have an option to display the location route on the map. On critical missions, the dispatcher can send staff nearby to check and help when the route of a patrol has halted.



Portable repeater

# Versatile accessories for specific tasks



### **Accessories**

Li-ion Battery 1100mAh	BL1103	Wireless Earpiece With Dual-PTT	EHW02
Li-ion Battery 1400mAh	BL1401	BT Ring PTT	POA47
Li-ion Battery 1800mAh	BL1809	Belt Charger	CH04L01
Switching Power(US-standard) 12V 1A	PS1014	Blet Clip	PCN005
MCU Dual Charger	CH10L16	Digital Wireless Covert Earpiece	EWN07
3-wire Surveillance Earpiece with	EAN21	With in-Line Controller (Neckloop Sensor)	
Transparent Acoustic Tube (Beige)		Digital Wireless Covert Earpiece (Flatpack Sensor)	EWN08
Remote C-Earset	EHN21	Detachable Earpiece with Transparent Acoustic Tube	EAN22
Remote Swivel Earset	EHN20	3-wire Dual-PTT Surveillance Earpiece with	EAN19
Remote Earbud	ESN14	Transparent Acoustic Tube (Beige)	
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**



# **Specifications**

Genera	Frequency Range(MHz)	UHF1: 400-470MHz; UHF2:450-520MHz; UHF3: 350-400MHz UHF5: 806-941MHz; VHF: 136-174MHz	
	Zone Capacity	16 (each with a maximum of 16 channels)	
	Channel Capacity	1024	
	Channel Spacing	25/20/12.5kHz	
	Operating Voltage	7.4V (rated)	
	Battery	1100mAh (Li-lon)/1400mAh (Li-lon)/1800mAh (Li-lon)	
	Battery Life (5-5-90 Duty Cycle, High TX Power)	Digital: Analog: 10 Hours @1100mAh 7 Hours @1100mAh 12 Hours @1400mAh 9 Hours @1400mAh 15 Hours @1800mAh 12 Hours @1800mAh	
=	Frequency Stability	±1.5ppm	
	Antenna Impedance	50Ω	
	Dimensions (H×W×D) (with battery, without antenna)	120 x 57 x 18mm (1100mAh Li-ion battery) 120 x 57 x 20mm (1400mAh Li-ion battery) 120 x 57 x 23mm (1800mAh Li-ion battery)	
	Weight	225g (1100mAh Li-ion battery) 242g (1400mAh Li-ion battery) 262g (1800mAh Li-ion battery)	

Receiver	Sensitivity	Analog	0.3 μV (12dB SINAD)
			0.22 μV (Typical) (12dB SINAD)
			0.4 μV (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		70dB @ 12.5/20/25kHz 65dB @ 12.5/20/25kHz
	Spurious Respo TIA-603 ETSI	onse Rejection	70dB @ 12.5/20/25kHz 70dB @ 12.5/20/25kHz
	Hum and Noise		40dB @ 12.5kHz 43dB @ 20kHz; 45dB @ 25kHz
	Rated Audio Distortion		≤3%
	Audio Response		+1 ~ -3dB
	Conducted Spu	ırious Emission	< -57dBm

Transmitter	RF Power Output	VHF High Power: 5W VHF Low Power: 1W UHF1/UHF2/UHF3 High Power: 4W, UHF5 High Power: 3W (806-870MHz), 2.5W (896-941MHz) UHF1/UHF2/UHF3/UH5 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 Vocoder Type	AMBE++ or SELP
	Digital Protocol	ETSI-TS102 361-1, 2&3
	Operating Temperature	-30°C ~ +60°C
	Storage Temperature	-40°C ∼ +85°C
\$₽	ESD	IEC 61000-4-2 (level 4)
viror	LJD	$\pm$ 8kV (contact) $\pm$ 15kV (air)
men	American Military Standard	MIL-STD-810 C/D/E/F/G
nta <u>l</u> ons	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	TTFF(Time To First Fix) Cold Start	<1 minute
	TTFF(Time To First Fix) Hot Start	<10 seconds
	Horizontal Accuracy	<10 metres

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













Address: Hytera Tower, Hi-Tech Industrial Park North, Beihuan Rd., Nanshan District, Shenzhen, China

Http://www.hytera.com Stock Code: 002583.SZ









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