Target Customers

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

Specifications

General		
Frequency Range(MHz)	VHF: 136-174MHz UHF1: 400-470MHz UHF2: 450-520MHz UHF3: 350-400MHz	
Channel Capacity	1024	
Zone Capacity	64	
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)	Analog: over 10 Hours (1800mAh Li-ion battery) Digital: over 14 Hours (1800mAh Li-ion battery)	
Frequency Stability	±1.5ppm	
Antenna Impedance	50Ω	
Dimensions (H×W×D) (with standard battery, without antenna)	119.5 X 57 X 21mm (1100mAh Li-ion battery) 119.5 X 57 X 26mm (1800mAh Li-ion battery)	
Weight	about 240g (1100mAh Li-ion battery) about 280g (1800mAh Li-ion battery)	
LCD Display	160 x 128 pixels, 65536 colors 1.8 inch, 4 rows	

Receiver		
Sensitivity	Analog	0.3μV (12dB SINAD) 0.22μV (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		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

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 Vocoder Type	AMBE++ or SELP	
Digital Protocol	ETSI-TS102 361-1, 2&3	

Environmental Specifications		
Operating Temperature	-30℃ ~ +60℃	
Storage Temperature	-40℃ ~ +85℃	
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		
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.

TWO WAY RADIOS UK

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Link House, 1880 Leek Road, Stoke on Trent, ST2 7AH

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Hytera
Respond & Achieve

Ultra-thin full power keypad digital portable radio

X1p

Hytera X1p, ultra-thin full power keypad digital portable radio, complies fully with ETSI open standard. 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: 21mm (1100mAh Li-ion battery) thin.

X1p

DMR
DIGITAL MOBILE RADIO ASSOCIATION

Innovative Design

☺ **Ease of use**
Easy to use with the rugged body as thin as 21mm, professional wireless headsets or collar microphone*, palm controller and flexible antenna.

☺ **IP67 compliance**
Complies with IP67 requirements, withstanding up to 1m submersion for 30 minutes or more.

☺ **Rugged & reliable**
Complies with MIL-STD-810 C/D/E/F/G standards and passes HALT (Highly Accelerated LifeTest) .

☺ **Large-size colour display**
X1p adopts a 1.8" TFT LCD display (65536 colours), allowing good visibility even under outdoor strong sunlight.

Features

Advanced encryption
AES encryption algorithm & 256 digit dynamic encryption keys ensure secure communication.

Supports 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 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.
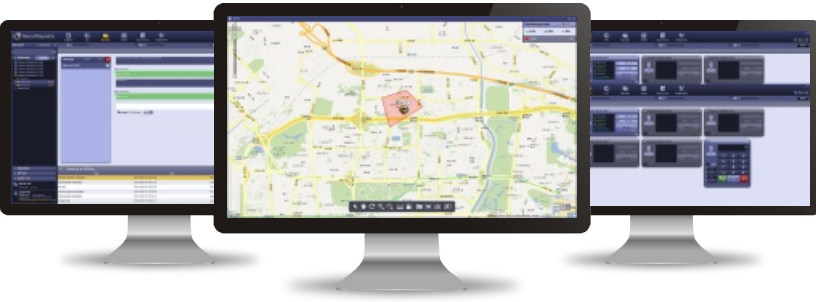
*Available in future release.

Hytera X1p

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 is demanded.
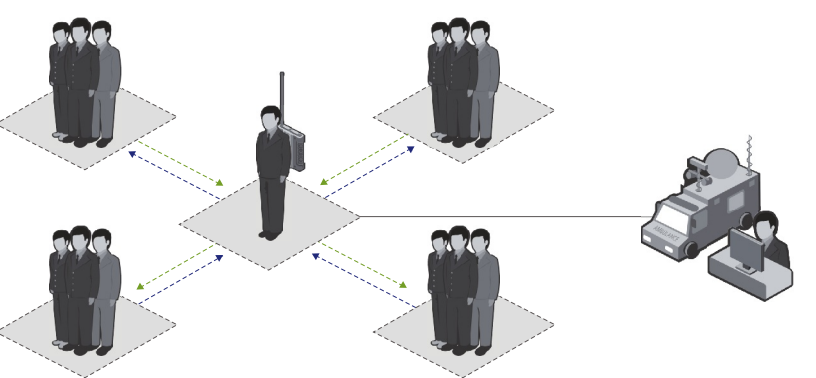
SmartDispatch

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.

- **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 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.

Portable repeater

Learn more about *SmartDispatch* and the backpack repeater, please visit www.hytera.com or contact our local dealers and sales representatives.

Versatile accessories for specific tasks

EHW02
Wireless Earpiece With Dual-PTT

EHN21
Remote C-Earset

PCN005
Belt Clip

EWN08
Digital Wireless Covert Earpiece (Flatpack Sensor)

Ni11 antennna

POA47
Bluetooth Ring PTT

EAN21
3-wire Surveillance Earpiece with Transparent Acoustic Tube(Beige)

CH04L01
Belt Charger

EHN20
Remote Swivel Earset

BL1809
1800mAh Li-ion battery

ESN14
Remote Earbud

CH10L15
MCU dual-pocket charger

Vest
NCN009

Hytera X1p
Hytera offers a complete series of accessories for X1p covert radio, including audio accessory, battery, portable accessory, etc., which further enhances the performance of X1p.

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 X1p enables it to work for up to 15 hours, and the belt charger further extends its operation time with convenient charging.	Both wireless earphone and, Bluetooth earpiece are available for X1p.
Switching Power(US-standard) 12V 1A	PS1014		
MCU Dual Charger	CH10L15		Wireless Earphone — EWN08
3-wire Surveillance Earpiece with Transparent Acoustic Tube (Beige)	EAN21		Bluetooth earpiece — EHW02
Remote C-Earset	EHN21		
Remote Swivel Earset	EHN2O	Li-ion Battery 1800mAh — BL1809	
Remote Earbud	ESN14	Belt Charger — CH04L01	
Vest	NCN009		
Antenna			