

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

Innovative Design

① 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.

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) .

④ Large-size colour display

X1p adopts a 1.8" TFT LCD display (65536 colours), allowing good visibility even under outdoor strong sunlight.



Hytera X1p

Features



Advanced encryption

AES encryption algorithm & 256 digit dynamic encryption keys ensure 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

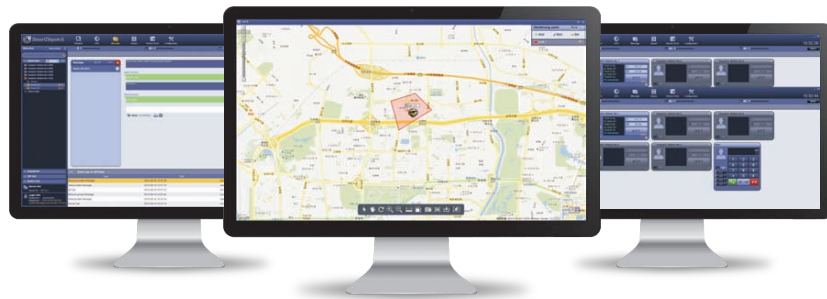
Upgradable software enables new features without buying a new radio.

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 is demanded.

SmartDispatch

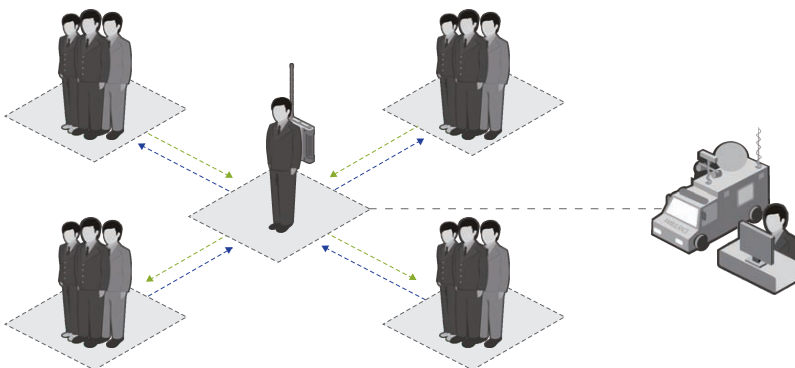
A digital dispatching system developed on the Hytera digital platform in compliance to ETSI DMR open standard, is designed for efficient communication, management and dispatching of professional users.



- 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

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 X1p 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. X1p has a variety of audio accessories for flexible use in actual environments.



Target Customers

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

Specifications

General	Frequency Range(MHz)	VHF: 136-174MHz UHF2: 450-520MHz	UHF1: 400-470MHz UHF3: 350-400MHz
	Channel Capacity	1024	
	Zone Capacity	64	
	Channel Spacing	25/20/12.5KHz	
	Operating Voltage	7.4V (rated)	
	Battery	1100mAh (Li-Ion) 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	
	Dimensions (HxWxD) (with 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.



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

Hytera retains right to change the product design and specification. Should any printing mistake occur, Hytera doesn't bear relevant responsibility. Little difference between real product and product indicated by printing materials will occur by printing reason.

HYT, Hytera are registered trademarks of Hytera Co., Ltd. © 2012 Hytera Co., Ltd. All Rights Reserved.