

Ultra-Thin DMR Digital Radio with Full-Keypad & Display

X1p

Hytera X1p, ultra-thin full power keypad digital portable radio, complies fully with ETSI open standard. The X1p is the perfect combination of structural ruggedness (IP67 Dust and Water Rating) and a compact user-friendly design. It provides secure communication ensured by AES encryption algorithm & 256-digit dynamic encryption keys, convenient applications, as well as convenient ease-of-use facilitated by the built-in Bluetooth.



X1p










Innovative Design

- ① **Ergonomic Design for 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 Color Display**
X1p adopts a 1.8" TFT LCD display (65536 colors), 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 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.
-  **Easy Digital Migration with Dual-Modes**
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.

Versatile accessories for specific tasks



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

Accessories

Li-ion Battery 1100mAh

Li-ion Battery 1800mAh

Switching Power(US-standard) 12V 1A

MCU Dual Charger

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

Remote C-Earset

Remote Swivel Earset

Remote Earbud

Vest

Antenna

BL1103

BL1809

PS1014

CH10L15

EAN21

EHN21

EHN20

ESN14

NCN009

High-capacity Battery & 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.

Li-ion Battery 1800mAh

Belt Charger

BL1809

CH04L01

Audio Accessories

Both wireless earphone and, Bluetooth earpiece are available for X1p.

Wireless Earphone EWN08

Bluetooth earpiece EHW02

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 x W x D) (with standard battery, without antenna)	4.70" x 2.24" x 0.83" in. (1100 mAh Li-ion battery) 4.70" x 2.24" x 1.02" in. (1800 mAh Li-ion battery)
	Weight	about 8.47 oz (1100mAh Li-ion battery) about 9.88 oz (1800mAh Li-ion battery)
	LCD Display	160 x 128 pixels, 65536 colors 1.8 inch, 4 rows

Receiver	Sensitivity	Analog	0.3μ V (12dB SINAD) 0.22μ V (Typical) (12dB SINAD) 0.4μ V (20dB SINAD)
		Digital	0.3μ V /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	-22°F ~ +140°F
	Storage Temperature	-40°F ~ +185°F
	ESD	IEC 61000-4-2Level 4E ±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.



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