



X1p

DMR handheld radio

The Hytera X1p is an ultra-thin digital radio with full keypad. It was developed in full compliance with ETSI, the standard for Digital Mobile Radio (DMR) and offers a comprehensive feature set, ideal for covert security and professional applications.



Radio

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Highlights

Compact design

The X1p from Hytera combines compact design with extensive DMR functionality, integrated in a chassis that is only 23 mm thick. With its small dimensions, this handheld radio is perfectly suited for concealed carrying. Despite its compact design, the X1p has a full keypad and four programmable keys.

Dustproof and waterproof in accordance with IP67

The X1p is reliable, even in harsh operating conditions. It is waterproof and dustproof in accordance with degree of protection IP67, which means it is capable of withstanding a water depth of one meter for at least half an hour. The X1p also meets the requirements of the American MIL - STD - 810 C / D / E / F / G standards and can therefore withstand knocks and drops.

Integrated GPS as standard

With the aid of the integrated GPS module, the X1p can send position information to dispatcher systems. Dispatchers can evaluate this information and use functions such as geofencing, radio localization and GPS tracking. The X1p can also determine and display the distance and direction to other radios with GPS support in the DMR radio system.

Supports Hytera Bluetooth headsets

Wireless audio accessories from Hytera can be connected directly to the X1p. As such, the radio can be carried and operated conveniently without having to route cables through the clothing.

Different digital and analogue operating modes

The X1p was developed in compliance with the ETSI Digital Mobile Radio (DMR) standard. It supports both conventional DMR operation (DMR Tier II), DMR trunking (DMR Tier III) via chargeable licence, Hytera XPT Digital Trunking and operation in simulcast. The X1p can also be operated in analogue mode. Along with conventional analogue radios, it also supports analogue trunking as per MPT 1327.

Calls to the telephone network

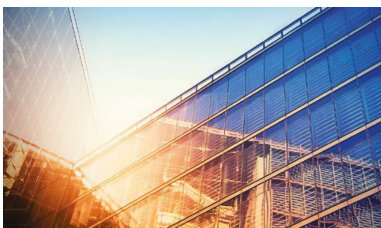
Provided the X1p is registered in a DMR Tier II radio system via a repeater, selective calls can be made from the radio directly to the telephone network via this repeater. Telephone subscribers can also call specific individual radios or also groups.

Upgradeable software

Upgradeable software makes the use of new features possible. By altering the firmware-software, other digital and analogue operating modes can be enabled, without the need for purchasing a new radio device.

Covert Applications

The clever design of the X1p allows the radio to rest face down in the pocket and still offer emergency operation and excellent clarity with mic and emergency button strategically placed on the reverse of the device.





Multiple languages

The X1p supports various menu languages. T9 support for text entry is available.

Large color display

The X1p has a 1.8" TFT LCD display (65,536 colours) that can be clearly seen, even in bright sunlight.

Digital encryption

Encryption using encryption algorithm ARC4 (40 bit) in accordance with DMRA or optional algorithms AES128 and AES256 (128 and 256 bit) ensures secure communication.

Additional operating time

In comparison to an analogue radio, the operating time can be significantly increased by using DMR TDMA. This means that an operating time of up to 10 hours is possible.

Direct mode

Like all Hytera DMR terminals, the X1p supports the usage of both timeslots in the direct mode. In this way, two calls can be made at the same time in the same area.

Versatile signaling

Supports various forms of analogue signaling, including HDC1200, DTMF, 2-tone and 5-tone.

In the box

Lithium-Ion Battery (1400mAh) BL1401	MCU Dual-Pocket Charger CH10L16	Universal Standard Switching Power Adapter PS1044	Wrist Strap RO03	Loudspeaker microphone IP67 SM26N1	Loudspeaker microphone IP54 SM26N2	Wireless push-to-talk button POA47

Optional accessories

Wireless headset ESW01	BT Earpiece with Dual PTT EHW02	Belt clip with additional battery CH04L01	Carrying case with clip PCN005	Covert One Shoulder Harness NCN009

The illustrations above are for reference purposes only. The products might differ from these illustrations.

Technical Data

General data	
Frequency range	VHF: 136 - 174 MHz UHF: 400 - 470 MHz UHF2: 450-520MHz
Supported operating modes	<ul style="list-style-type: none"> DMR Tier II in acc. with ETSI TS 102 361-1/2/3 Simulcast XPT Digital Trunking DMR Tier III in acc. with ETSI TS 102 361-1/2/3/4 Analogue, MPT 1327
Channel capacity	PD715Ex 16 (with max. 16 channels in each) PD795Ex 64 (with max 256 channels in each)
Number of zones	64 (with max. 256 channels each)
Channel spacing	12.5 / 20 / 25 kHz (analogue) 12.5 kHz (digital)
Operating voltage	7.4 V (nominal)
Standard battery	1800 mAh (lithium-ion battery)
Battery life (5-5-90 duty cycle, high transmitting power, standard battery)	approx. 10 hours (analogue) approx. 12 hours (digital)
Frequency stability	± 1.5 ppm
Antenna impedance	50 Ω
Dimensions (H × B × T) (with battery, without antenna)	119.5 × 57 × 21 mm (1100 mAh battery) 119.5 × 57 × 23 mm (1400 mAh battery) 119.5 × 57 × 26 mm (1800 mAh battery)
Weight (with antenna and standard battery)	approx. 240 g (with 1100 mAh battery) approx. 260 g (with 1400 mAh battery) approx. 280 g (with 1800 mAh battery)
LCD display	160 × 128 pixels, 65,536 colors, 1.8 inch, 4 lines
Programmable Keys	4+ number keys

Ambient data	
Operating temperature range	- 30°C to + 60°C
Storage temperature range	- 40°C to + 85°C
ESD	IEC 61000-4-2 (Level 4), ± 8 kV (contact), ± 15 kV (air)
Protection against dust and moisture	IP67
Shock and vibration resistance	MIL-STD-810 C/D/E/F/G
Relative humidity	MIL-STD-810 C/D/E/F/G

GPS	
Time to rst position recognition (TTF) cold start	< 1 minute
Time to rst position recognition (TTF) warm start	< 10 seconds
Horizontal accuracy	< 10 meter

Your Hytera partner:



Hytera
Respond & Achieve

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Transmitter	
Transmitting power (adjustable)	VHF: 1 / 5 W UHF: 1 / 4 W
Modulation	11 K0F3E at 12.5 kHz 14 K0F3E at 20 kHz 16 K0F3E at 25 kHz
4FSK digital modulation	12.5 kHz (data only): 7K60FXD 12.5 kHz (data and voice): 7K60FXW
Interfering signals and harmonics	-36 dBm (< 1GHz) -30 dBm (> 1GHz)
Modulation limiting	± 2.5 kHz at 12.5 kHz ± 4.0 kHz at 20 kHz ± 5.0 kHz at 25 kHz
Hum and noise	40 dB at 12.5 kHz 43 dB at 20 kHz 45 dB at 25 kHz
Adjacent channel selectivity	60 dB at 12.5 kHz 70 dB at 20 / 25 kHz
Audio sensitivity	+ 1 to - 3dB
Nominal audio distortion	≤ 3 %
Digital vocoder type	AMBE+2™

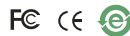
Receiver	
Sensitivity (analogue)	0.3 µV (12 dB SINAD) 0.22 µV (typical) (12 dB SINAD) 0.4 µV (20 dB SINAD)
Sensitivity (digital)	0.3 µV/BER 5%
Adjacent channel selectivity TIA-603 ETSI	65 dB at 12.5 kHz / 75 dB at 20 / 25 kHz 60 dB at 12.5 kHz / 70 dB at 20 / 25 kHz
Intermodulation TIA-603 ETSI	70 dB at 12.5 / 20 / 25 kHz 65 dB at 12.5 / 20 / 25 kHz
Spurious response rejection TIA-603 ETSI	70 dB at 12.5 / 20 / 25 kHz 70 dB at 12.5 / 20 / 25 kHz
Hum and noise	40 dB at 12.5 kHz 43 dB at 20 kHz 45 dB at 25 kHz
Nominal audio distortion	3 % (500 mW)
Nominal audio power output	500 mW
Conducted spurious emission	< -57dBm

All technical information was determined at the factory and in accordance with the corresponding standards. Subject to change on the basis of continuous development.

Further information can be found at:

www.hytera.co.uk

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Hytera reserves the right to modify the product design and the specifications. In case of a printing error, Hytera does not accept any liability. All specifications are subject to change without notice.

Encryption features are optional and have to be configured separately. They are also subject to European export regulations.

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