



Hytera's BD50X two-way radio is the compact device that provides professional communication and easily operated. Today, communication tools are the key to improved efficiency. When we ask for clear voice, it means a reliable talk, easy-to-hear and -understand. Long battery life helps you to maintain control. A rugged and robust device takes the worry out of communicating. High-performance but simpleoperation will make everything go easy.

Hytera understands customers' requirements and meets them all in one. With lightweight, easy-operation, excellent performance, long battery life and reliability. We redefine a business radio using Hytera digital technology and quickly responding to what you need.

EXCELLENT PERFORMANCE

With innovative design, BD50X has better performance than analog radios. Excellent reception sensitivity, the communications range further extended. BD50X DMR digital radio with good performance negligible interference, provide stable communication.

RUGGED AND RELIABLE

BD50X is designed and tested to meet Military Standards 810 G, including temperature shock, vibration, high & low temperature and humidity. IP54 dust-and water-proof design guarantees the reliability in different environments.

CLEAR VOICE

With digital encoding and correction technology, human voice is transmitted clearer without noise, even over greater distance. This is a new experience of improved audio quality.



PROFESSIONAL AND SIMPLE TO USE

ANALOG & DIGITAL DUAL MODES

BD50X can support both analog and digital modes on the same hardware. You can switch between two operation modes easily and it helps you to communicate with analog radios.



Analog Digital Mixed Channel

BD50X can detect the signal type when receiving a call, then automatically switches between analog mode and digital mode. During the call hang time, user can easily reply by using the push-to-talk. This is migration technology from analog to digital.



EXTENDED TALK RANGE

Based on Hytera innovative technology, your talk range is extended.



LONG WORKING TIME

BD50X in digital mode can work upto 16 hours @1500mAh or 22 hours@2000mAh in 5-5-90 mode.



CLEAR VOICE

Excellent audio quality comes from the DMR digital technology, which makes communication more reliable.



RELIABLE AND DURABLE

BD50X is compliant with MIL-STD-810 G and IP54.



ANTI-INTERFERENCE

Adopted digital encoding and error correcting module, BD50X has the ability to avoid signal interference on the same frequency.



DMR DMR SIGNALING

With DMR signaling, transmitting group call, private call and all call with PTT ID becomes quite easy.



REPEATER MODE OPERATION

Utilize a DMR Tier II repeater to extend your communication range.



(C) VOICE ANNOUNCEMENT

Channel number announcement helps you to switch channels quickly and correctly, even in blindness operation.



VOX

This feature allows you to activate the radio microphone via your voices volume, and frees your hand from PTT.



SCANNING

Allow BD50X listening to communication activities on other channels.

ACCESSORIES

STANDARD ACCESSORIES



AN0435W09 Whip Antenna, 400-470MHz, ^① 16cm



BL1506 1500mAh Li-ion battery



CH10L23 BD50X standard drop-in single unit charger



BC08 Belt clip



RO03 Nylon hand strap



Power Adapter input: 100-240VAC, output: 12VDC/1A

US/UK/AU/EU/CHINA/JAPAN

OPTIONAL ACCESSORIES



EHM15-A D-style earpiece with in-line PTT & MIC VOX switch



EHM18-A C-style earpiece with in-line PTT & MIC VOX switch



ESM12 Ear-bud with PTT on MIC VOX switch



EAM12 Ear-bud with PTT on MIC VOX switch



EAM13 2-wire surveillance earpiece VOX switch



ACM-01 PTT&MIC-only with 3.5mm jack



ES-01 Receive-only ear-bud



ES-02 Receive-only surveillance earpiece



EH-01 Receive-only C style earpiece



EH-02 Receive-only earhook speaker



PC76 Data programming cable



SM08M3 Remote speaker microphone

with 3.5mm audio jack



SM26M1^① Remote speaker microphone

lp54 with 2.5mm audio jack



LCBN13 Universal nylon chest Pack



NCN011 Nylon carrying jacket



BL2018 2000mAh Li-ion battery



MCL19 BD50X multi-unit charger



CHV09 Vehicle adapter (Input: 11-25V DC, Output: 12V DC & 1A)



AN0435H13 Stubby antenna, 400-470MHz, 9cm

① SM26M1 can be used with earpieces EAS03,EHS17/18,ESS10.

SPECIFICATION

		General
Frequency Range		UHF:400-470 MHZ; 350-400Mhz VHF:136-174 MHz
Channel Capacity		48
Zone Capacity		3
Channel Spacing		25/12.5KHz
Operating Voltage		7.2V
Battery		1500mAh (Li-lon) 2000mAh (Li-lon)
Battery Life (5/5/90)		Analog/Digital: 12/16 hours (1500mAh) 16/22 hours (2000mAh)
Weight		220g (with AN0435W09 and BL1506)
Dimensions		108×54×29mm
Frequency Stability		±0.5ppm
Antenna Impedance		50Ω
		Receiver
Sensitivity (Digital)		0.22μV / BER 5%
Sensitivity (Analog)		0.22μV (Typical) (12dB SIN AD) 0.4μV (20dB SIN AD)
Adjacent Selectivity	TIA-603	60dB @ 12.5KHz/70dB @ 25KHz
Spurious Response Rejection	TIA-603	70dB @ 12.5/25KHz
Inter-modulation	TIA-603	65dB @ 12.5/25KHz
Hum & Noise		40dB @ 12.5KHz 45dB @ 25KHz
Rated Audio Power Output		0.5W
Rated Audio Distortion		≤3%
Rated Audio Distortio	n	370
Rated Audio Distortic Audio Response	on	+1 ~ -3dB

Transmitter		
RF Power Output	VHF High power: 5W VHF Low power: 1W UHF High power: 4W UHF Low power: 1W	
FM Modulation	11K0F3E @ 12.5KHz 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 ±5.0KHz @ 25KHz	
FM Hum & Noise	40dB @ 12.5KHz 45dB @ 25KHz	
Adjacent Channel Power	60dB @ 12.5KHz, 70dB @25KHz	
Audio Response	+1 ~ -3dB	
Audio Distortion	€3%	
Digital Vocoder Type	AMBE+2 [™]	
Digital Protocol	ETSI-TS102 361-1,-2,-3	
En	vironmental	
Operating Temperature	-30°C~ +60°C	
Storage Temperature	-40°C~ +85°C	
ESD	IEC 61000-4-2 (Level 4) ±8kV (Contact) ±15kV (Air)	
Dustproof & Waterproof	IP54 Standard	
Humidity	Per MIL-STD-810 G Standard	
Shock & Vibration	Per MIL-STD-810 G Standard	

BD50X, X=0, 2, 5,6 or 8, model number varies geographically. For details, please contact our regional sales representatives.



















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