



Hytera's BD5 series two-way radio is the compact device that provides professional communications 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 simple operation 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, BD5 series has better performance than analog radios. Excellent reception ability makes talk range further extended. DMR digital radios with good performance and negligible interference, provide stable communication.

RUGGED AND RELIABLE

BD50X/BD55X 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 quarantees 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

BD50X

ANALOG & DIGITAL DUAL MODES

BD50X/BD55X 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/BD55X 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 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

BD5 series 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/BD55X is compliant with MIL-STD-810 G and IP54.



ANTI-INTERFERENCE

BD55X

Adopted digital encoding and error correcting module, BD5 series has the ability to avoid signal interference on the same frequency.



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.



OVER ANNOUNCEMENT (only for BD50X)

Channel number announcement helps you to switch channels quickly and correctly, even in operations with low visibility.



VOX

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



SCANNING

Allow BD5 series listening to communication activities on other channels



ACCESSORIES

STANDARD ACCESSORIES



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



BL1506 1500mAh Li-ion battery



CH10L23 BD5 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[®] Remote speaker microphone

with 2.5mm audio jack

lp54



LCBN13 Universal nylon chest Pack



NCN011 Nylon carrying jacket



BL2018 2000mAh Li-ion battery



MCL19 BD5 multi-unit charger



AN0435H13 Stubby antenna, 400-470MHz, 9cm



CHV09

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

SPECIFICATION

	(General
Frequency Range		UHF:400-470 MHz VHF:136-174 MHz
Channel Capacity		BD50X: 48, BD55X: 256
Zone Capacity		BD50X: 3, BD55X: 16
Channel Spacing		25/12.5KHz
Operating Voltage		7.2V
Display		BD50X without display BD55X with display (0.91")
Battery		1500mAh (Li-lon) 2000mAh (Li-lon)
Battery Life (5/5/90)		Analog/Digital: 12/16 hours (1500mAh) 16/22 hours (2000mAh)
Weight		BD50X: 240g, BD55X: 250g (With AN0435W09 and BL1506)
Dimensions		BD50X: 108×54×28mm BD55X: 110×59×30mm
Frequency Stability		±0.5ppm
Antenna Impedance		50Ω
	F	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%
Audio Response		+1 ~ -3dB
Conducted Spurious Emission		<-57dBm

Tra	ansmitter
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
Env	ironmental
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

 $BD50X/BD55X, X=0, 2, 5, 6\ or\ 8, model\ number\ varies\ geographically.\ For\ details, please\ contact\ our\ and\ sometimes$ regional sales representatives.

All specifications are subject to change without notice due to continuous development.













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Http://www.hytera.com Stock Code: 002583.SZ









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