





BD5 2 SERIES BUSINESS DIGITAL RADIO

SIMPLE, ROBUST, CLEAR-VOICE



Hytera's BD5i 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, BD5i 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.

BD502i

BD552i

RUGGED AND RELIABLE

BD502i/BD552i 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. Based on TDMA technology, the radio can work longer, up to 22 hours in digital mode.

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

A/D ANALOG & DIGITAL DUAL MODES

BD502i/BD552i 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 AUTO DETECT

BD502i/BD552i 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

Based on TDMA technology, BD5i 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

BD502i/BD552i is compliant with MIL-STD-810 G and IP54.

ANTI-INTERFERENCE

Adopted digital encoding and error correcting module, BD5i series 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.

・ VOICE ANNOUNCEMENT (only for BD502i)

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



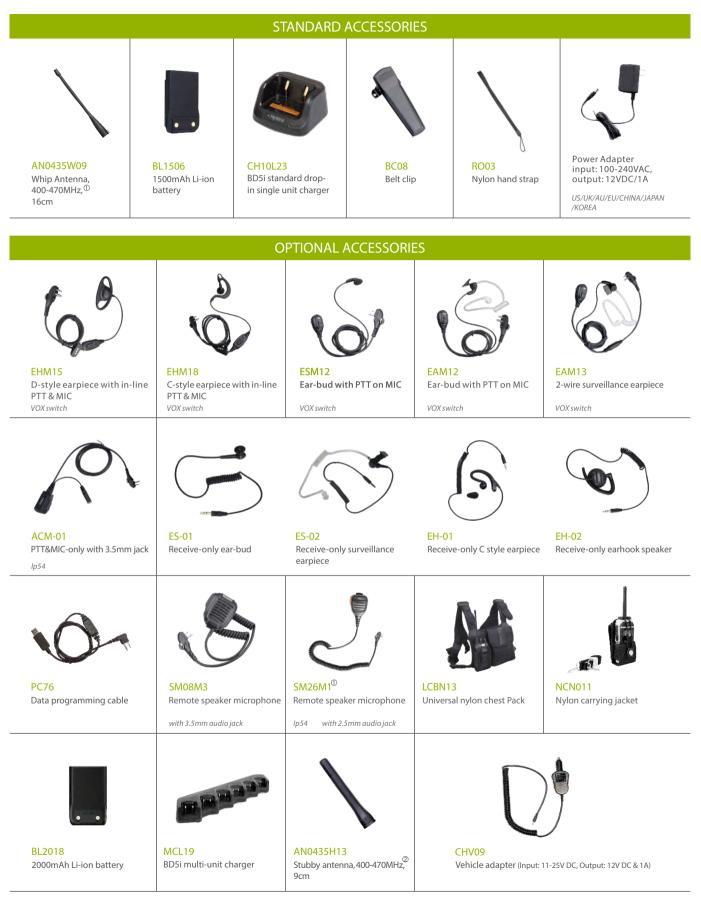
VOX

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

SCANNING

Allow BD5i series listening to communication activities on other channels.

ACCESSORIES



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

AN0435H13:400-470MHz, 9cm AN0141H06:136-147MHz, 17cm AN0435W09:400-470MHz, 16cm AN0153H07:147-160MHz, 17cm 2 AN0435H13:400-470MHz,9cm

AN0167H06: 160-174MHz, 17cm AN0160H13:146-174MHz,15cm AN0153H08: 147-160MHz/1575MHz, 12cm AN0167H07: 160-174MHz/1575MHz, 12cm

SPECIFICATION

General			
Frequency Range		UHF:400-470 MHz VHF:136-174 MHz	
Channel Capacity		BD502i: 48, BD552i: 256	
Zone Capacity		BD502i: 3, BD552i: 16	
Channel Spacing		25/12.5KHz	
Operating Voltage		7.2V	
Display		BD502i without display BD552i 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		BD502i: 240g, BD552i: 250g (With AN0435W09 and BL1506)	
Dimensions		BD502i: 108×54×28mm BD552i: 110×59×30mm	
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 O	utput	0.5W	
	· .	0.5W ≤3%	
Rated Audio Power O	· .		

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 TM		
Digital Protocol	ETSI-TS102 361-1,-2,-3		
Environmental			
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		

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



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