



BD302 BUSINESS DIGITAL RADIO SIMPLE, ROBUST, CLEAR-VOICE



Hytera's BD302 two-way radio is the compact device that provides a professional communication in easy to operate way. Today, communication tool is the key to improve the efficiency. When we ask for clear voice, it means a reliable talk that's easy to hear and understand. Long battery life helps you to avoid losing contact. A rugged and robust device with high performance but simple to operate will make everything easier to handle.

Hytera understands customers' requirements and meets them all in one, with lightweight, easy-operation, excellent performance, long-time working and reliability. So we redefine a business radio with Hytera digital technology, quickly responding to what you need.

SUCH THIN AND LIGHT

BD302 weighs just 5oz., quite comfortable you hold it. Relief for you from busy communication in your daily work, by this pocket-sized radio.

EXCELLENT PERFORMANCE

Only 2W output power but BD302 still has amazing performance. Excellent receiving ability makes the talk range further extended. It has good performance of anti-interference in digital mode providing purely stable communication.

RUGGED AND RELIABLE

BD302 is designed and tested to meet Military Standards 810 C, D, E, F and G, including temperature shock, vibration, high & low temperature and humidity. IP54 dust- and water-proof design guarantees the reliability in multiple environments. And based on TDMA technology, the radio can work longer, up to 16 hours in digital mode.

CLEAR VOICE

With digital encoding and correction technology, human voice is transmitted much clearer without background noise, even from a rather far distance. This is a new experience of better audio quality.



PROFESSIONAL AND SIMPLE TO USE

A/D ANALOG & DIGITAL DUAL MODES

BD302 can support both analog and digital modes on the same hardware. You can switch between two operation modes very easily and it helps you to communicate with analog radios.



ANALOG & DIGITAL AUTO DETECT

BD302 can detect the signal type when receiving a call, then automatically switches between analog mode and digital mode to get the voice out of speaker. During the call hang time, user can easily reply the call by push-to-talk. This is a real migration technology from analog to digital.



EXTENDED TALK RANGE

Extend your talk range based on Hytera's innovative technology.

LONG WORKING TIME

Based on TDMA technology, BD302 in digital mode can as long as 16 hours in 5-5-90 mode.

CLEAR VOICE

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

RELIABLE AND DURABLE

BD302 is compliant with MIL-STD-810 C/D/E/F/G and IP54.

ANTI-INTERFERENCE

Adopted digital encoding and error correcting module, BD302 has a better ability to avoid signal interference on the same frequency.

DMR DMR SIGNALING

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

REPEATER MODE OPERATION

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

I) VOICE ANNOUNCEMENT

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

DUAL CAPACITY DIRECT MODE

In direct mode, you can have two voice calls simultaneously from DMR two time slots. This feature can be used to increase the radio capacity at no extra costs or frequency license.

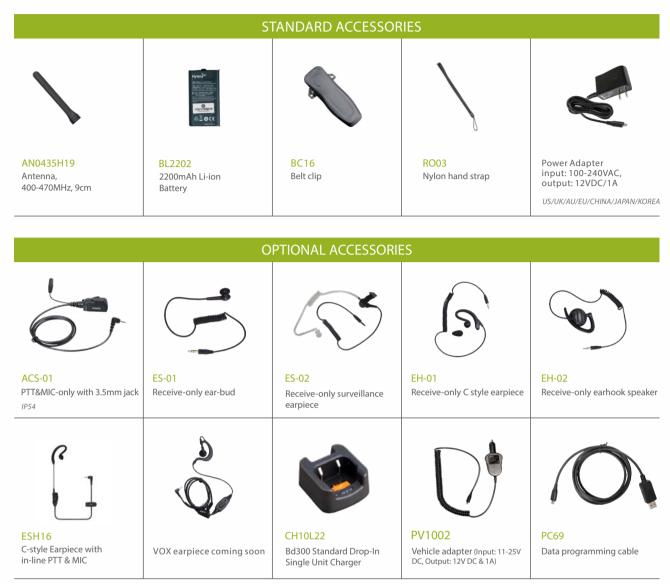
VOX

When using VOX earpiece, this feature allows you to activate the microphone via speaking volume, and free your hand from PTT.

SCANNING

Allow BD302 listening to communication activities on other channels.

ACCESSORIES





SPECIFICATION

General			
Frequency Range		UHF:400-470 MHz	
Channel Capacity		48	
Zone Capacity		3	
Channel Spacing		25/12.5KHz	
Operating Voltage		3.8V	
Battery		2200mAh (Li-Ion)	
Battery Life (5/5/90)		Analog/Digital: 16/22 hours (2000mAh)	
Weight		5 oz. (with AN0435H19 and BL2202)	
Dimensions		101×49×25.8mm	
Frequency Stability		±0.5ppm	
Antenna Impedance		50 Ω	
Receiver			
Sensitivity (Digital)		0.22 μ V / BER 5%	
Sensitivity (Analog)		0.22 μ V (Typical) (12dB SIN AD) 0.4 μ V (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		≤5%	
Audio Response		+1 ~ -3dB	
Conducted Spurious Emission		<-57dBm	

Transmitter			
RF Power Output	High power: 2W 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	≤5%		
Digital Vocoder Type	AMBE++		
Digital Protocol	ETSI-TS102 361-1,-2,-3		
Environmental			
Operating Temperature	−30°C~ +60°C		
Storage Temperature	-40°C~ +85℃		
ESD	IEC 61000-4-2 (Level 4) ± 8kV (Contact) ± 15kV (Air)		
Dustproof & Waterproof	lp54 Standard		
Humidity	Per MIL-STD-810 C/D/E/F/G Standard		
Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard		

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

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