



BD3 SERIES BUSINESS DIGITAL RADIO

SIMPLE, ROBUST, CLEAR-VOICE



Hytera's BD30 Series two-way radio is the compact device that provides professional communications in easy-operation way. Today, communication tools are the key to improved efficiency. When we ask for clear voice, it means a reliable talk with easy-to-hear and understand. Long battery life helps you to maintain control. A rugged and robust device takes the worry out of communications. 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.

SUCH THIN AND LIGHT

BD30X/BD35X just weighs 145g, quite comfortable and easily held. This pocket sized radio makes daily work communication simple and easy.



BD30X

BD35X

EXCELLENT PERFORMANCE

Only 2W output power but BD3 Series still has amazing performance. Excellent receiving ability makes the talk range further extended. Good performance and negligible interference in digital mode provides stable communication.

RUGGED AND RELIABLE

BD30X/BD35X 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 16 hours in digital mode.

CLEAR VOICE

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



PROFESSIONAL AND SIMPLE TO USE

A/D ANALOG & DIGITAL DUAL MODES

BD30X/BD35X 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

BD30X/BD35X 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 button. 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, BD3 Series in digital mode can work upto 16 hours in 5-5-90 mode.

CLEAR VOICE

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

RELIABLE AND DURABLE

BD30X/BD35X is compliant with MIL-STD-810 G and IP54.

ANTI-INTERFERENCE

Adopted digital encoding and error correcting module, BD3 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 BD30X)

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

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 ear-piece, this feature allows you to activate the microphone via your voices volume, and frees your hand from PTT.

SCANNING

Allow BD3 Series listening to communication activities on other channels.

ACCESSORIES

STANDARD ACCESSORIES				
				
AN0435H19 Antenna, 400-470MHz, 9cm	BL2202 2200mAh Li-ion Battery	BC16 Belt clip	RO03 Nylon hand strap	Power Adapter input: 100-240VAC, output: 5VDC/1A <i>US/UK/AU/EU/CHINA/JAPAN/KOREA</i>

OPTIONAL ACCESSORIES				
				
ACS-01 PTT&MIC-only with 3.5mm jack <i>IP54</i>	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
				
EHS16 C-style Earpiece with in-line PTT & MIC	VOX earpiece coming soon	CH10L22 BD3 Series Standard Drop-In Single Unit Charger	PV1002 Vehicle adapter (Input: 11-25V DC, Output: 5V DC & 1A)	PC69 Data programming cable



SPECIFICATION

General		
Frequency Range		UHF:400-470 MHz
Channel Capacity		BD30X: 48 BD35X: 256
Zone Capacity		BD30X: 3 BD35X: 16
Channel Spacing		25/12.5KHz
Operating Voltage		3.8V
Display		BD30X without display BD35X with display(0.91")
Battery		2200mAh (Li-Ion)
Battery Life (5/5/90)		Analog/Digital: 12/16 hours (2200mAh)
Weight		BD30X: 140g BD35X: 152g (with AN0435H19 and BL2202)
Dimensions		BD30X: 101×49×26mm BD35X: 106×52×30mm
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℃~ +60℃
Storage Temperature	-40℃~ +85℃
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

BD30X/BD35X, X=0, 2, 5, 6 or 8, model number varies geographically. For details, please contact our regional sales representatives.

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



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