



DIVIR

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.

BD50X

BD55X

RUGGED AND RELIABLE

BD50X/BD55X is designed and tested to meet MIL-STD - 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/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 upto16 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

Adopted digital encoding and error correcting module, BD5 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.



COLOR OF THE PROPERTY (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.



BT BUILT-IN BT(Factory Optional for BD55X)

Built-in BT supports BD55X to have wireless audio accessories and other BT transmission.

ACCESSORIES

STANDARD ACCESSORIES



Whip Antenna



1500mAh Li-ion battery



Rapid-rate charger



Belt clip



Nylon hand strap



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

US/UK/AU/EU/CHINA/JAPAN /KORFA

OPTIONAL ACCESSORIES



MIC&PTT cable finished
Without VOX, use with Receive-Only Earpiece



Receive-only C style earpiece



Receive-Only Adjustable Earhook with Swivel Speaker



Receive-only ear-bud



Receive-Only Earpiece with Transparent Acoustic Tube



D-style earpiece with in-line PTT & MIC

VOX switch



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



Remote speaker microphone



Waterproof Remote Speaker Microphone IP54, with 2.5mm audio jack



Receive-Only Earpiece with Transparent Acoustic Tube for waterproof speaker microphone



2000mAh Li-ion battery



Data programming cable



Vehicle power adapter



Nylon carrying jacket



Multi-unit charger



Universal nylon chest Pack



Waterproof Bag



BT wireless ring PTT (for BD55X)



Wireless earpiece with adapter (for BD55X)

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: 236g, BD55X: 250g (with antenna and battery) |
| Dimensions | | BD50X: 108.6 x 54.5 x 32 mm BD55X: 109 x 54 x 32 mm |
| Frequency Stability | | ±0.5ppm |
| Antenna Impedance | | 50Ω |
| ВТ | | BT4.0(BD55X, Optional) |
| | F | Receiver |
| Sensitivity (Digital) | | 0.18μV / BER 5% |
| Sensitivity (Analog) | | 0.18μV (Typical) (12dB 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 |

| 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++ |
| Digital Protocol | ETSI-TS102 361-1,-2,-3 |
| Envi | ronmental |
| Operating Temperature | -30°C~ +60°C* |
| Storage Temperature | -40°C~ +85°C |
| ECD | IEC 61000-4-2 (Level 4) |

Shock & Vibration *Radio only - Battery -20°C

Dustproof & Waterproof

ESD

Humidity

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

±8kV (Contact) ±15kV (Air)

IP54 Standard

Per MIL-STD-810 G Standard

Per MIL-STD-810 G Standard

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





<-57dBm







Conducted Spurious Emission



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