



BD612 BUSINESS DIGITAL RADIO

A Rugged Radio for Harsh Environments



Hytera's BD612 two-way radio inherits the excellent performance of hytera TC6 series analog products, that provides professional communication and easily operated, rugged and reliable . 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, BD612 has better performance than analog radios. Excellent reception sensitivity, the communications range further extended. BD612 DMR digital radio with good performance negligible interference, provide stable communication.

RUGGED AND RELIABLE

The BD612 features a bold two-color designed and tested to meet Military Standards 810 G, including temperature shock, vibration, high & low temperature and humidity. IP66 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.

ANTENNA

Enhance signal receiving ability.

POWER ON/OFF, VOLUME UP/DOWN

CHANNEL KNOB

Support 16 channels that are easily changed.

LED INDICATOR

Show the radio receiving and transmitting status as green light and red light.

PUSH-TO-TALK BUTTON

Easy to find and touch.

PROGRAMMABLE BUTTON

It can be programmed for useful functions as you require.

SPEAKER AND MICROPHONE

Provide clear receive and transmit audio.

AUDIO JACK

Supports different earpieces and remote speaker.



PROFESSIONAL AND SIMPLE TO USE

A/D ANALOG & DIGITAL DUAL MODES

BD612 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.



EXTENDED TALK RANGE

Based on Hytera innovative technology, your talk range is extended.



LONG WORKING TIME

BD612 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.



VOX

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



SCANNING

Allow BD612 listening to communication activities on other channels.



RELIABLE AND DURABLE

BD612 is compliant with MIL-STD-810 G and IP66.



ANTI-INTERFERENCE

Adopted digital encoding and error correcting module, BD61X 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
















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

ACCESSORIES

STANDARD ACCESSORIES

					
<p>Antenna</p>	<p>BL1506 1500mAh Li-ion battery</p>	<p>CH10L23 Single unit charger</p>	<p>BC08 Belt clip</p>	<p>RO03 Nylon hand strap</p>	<p>PS1017 Power Adapter</p>
<p>AN0160H13 146-174MHz AN0445H05 410-480MHz</p>					

OPTIONAL ACCESSORIES

				
<p>EHM15-A D-style earpiece with in-line PTT & MIC VOX switch</p>	<p>EHM18-A C-style earpiece with in-line PTT & MIC VOX switch</p>	<p>SM26M1^① Remote speaker microphone IP54 with 2.5mm audio jack</p>	<p>NCN019 Universal nylon chest Pack</p>	<p>NCN011 Nylon carrying jacket</p>
				
<p>ACM-01 PTT&MIC-only with 3.5mm jack IP54</p>	<p>ES-01 Receive-only ear-bud</p>	<p>ES-02 Receive-only surveillance earpiece</p>	<p>EH-01 Receive-only C style earpiece</p>	<p>EH-02 Receive-only earhook speaker</p>
				
<p>PC76 Data programming cable</p>	<p>BL2018 2000mAh Li-ion battery</p>	<p>MCL19 BD50X multi-unit charger</p>	<p>CHV09 Vehicle adapter (Input: 11-25V DC, Output: 12V DC & 1A)</p>	<p>AN0143H08 136-150MHz AN0435W09 400-470MHz</p>

① SM26M1 can be used with earpieces EAS03,EHS17.

② AN0435H13: 400-470MHz, 9cm AN0141H06: 136-147MHz, 17cm AN0167H06: 160-174MHz, 17cm AN0153H08: 147-160MHz/1575MHz, 12cm
AN0435W09: 400-470MHz, 15.7cm AN0153H07: 147-160MHz, 17cm AN0160H13: 146-174MHz, 15cm AN0167H07: 160-174MHz/1575MHz, 12cm

SPECIFICATION

General		
Frequency Range	UHF:410-480 MHz; VHF:136-174 MHz	
Channel Capacity	48	
Zone Capacity	3	
Channel Spacing	25/12.5KHz	
Operating Voltage	7.2V	
Battery	1500mAh (Li-Ion)	
Battery Life (5/5/90)	Analog/Digital: 12/16 hours (1500mAh)	
Weight	240g	
Dimensions	108×54×29mm	
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	65dB @ 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	
SAR		
Maximun SAR value(10g) 10.0W/kg Limit		
Head	≤10.0W/kg	
Body	≤10.0W/kg	

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™
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	Ip66 Standard
Humidity	Per MIL-STD-810 G Standard
Shock & Vibration	Per MIL-STD-810 G Standard

BD612, 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.

Existing devices should be upgraded to Hytera's iM or iS firmware before being used as part of a system. Speak to your Hytera dealer about how to upgrade your existing devices and for more information on Hytera's iM or iS firmware.



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