



## **BD615 BUSINESS DIGITAL RADIO**

### A Rugged Radio for Harsh Environments



Hytera's BD615 two-way radio inherits the excellent performance of Hytera TC6 series of analogue products, that provides professional communication which is easily operated, rugged and reliable. Today, communication tools are the key to improved efficiency. When we ask for clear voice, it means wanting a reliable, easy to hear and understand source of communication. Long battery life helps you to maintain control. A rugged and robust device takes the worry out of communicating. High performance combined with a simple user interface helps ensure ease of use.

Hytera understands their customer's requirements and provides this all in one solution. 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, the BD615 has better performance than analogue radios. Excellent reception sensitivity means the effective range for communication can be extended. The BD615 DMR digital radio has no interference, providing a stable communication connection.

#### **RUGGED AND RELIABLE**

The BD615 features a bold two-colour designed and tested to meet Military Standards 810 G, including temperature shock, vibration, high & low temperature and humidity. The IP66 dust-and-water-proof design guarantees the devices reliability across different environments.

#### **CLEAR VOICE**

With digital encoding and correction technology, human voice is transmitted clearer without noise, even over greater distances. This is a new experience in the world 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 operate.

PROGRAMMABLE BUTTON  
It can be programmed for useful  
functions as you require.

SPEAKER AND MICROPHONE  
Provide clear reception and  
transmission of audio.

AUDIO JACK  
Supports different earpieces and  
remote speaker.

## PROFESSIONAL AND SIMPLE TO USE

**A/D ANALOGUE & DIGITAL DUAL MODES**  
BD615 can support analogue and digital modes on the same hardware. You can switch between two operation modes easily and it helps you to communicate with analogue radios.

**EXTENDED TALK RANGE**  
Based on Hytera innovative technology, your talk range is extended.

**LONG WORKING TIME**  
BD615 in digital mode can work up-to 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**  
BD615 is compliant with MIL-STD-810 G and IP66.

**ANTI-INTERFERENCE**  
Adopted digital encoding and error correcting module, BD615 has the ability to avoid signal interference on the same frequency.

**DMR DMR SIGNALLING**  
With DMR signalling, 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.

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

**SCANNING**  
Allow BD615 listening to communication activities on other channels.

## ACCESSORIES

STANDARD ACCESSORIES					
					
<b>AN0435W09</b> Whip Antenna, 400-470MHz, <sup>①</sup> 16cm	<b>BL1506</b> 1500mAh Li-ion battery	<b>CH10L23</b> BD50X standard drop-in single unit charger	<b>BC08</b> Belt clip	<b>RO03</b> Nylon hand strap	<b>PS1044</b> UK Standard and EU Standard Switching Power Adaptor
OPTIONAL ACCESSORIES					
					
<b>EHM15-A</b> D-style earpiece with in-line PTT & MIC VOX switch	<b>EHM18-A</b> C-style earpiece with in-line PTT & MIC VOX switch	<b>ESM12</b> Ear-bud with PTT on MIC VOX switch	<b>EAM12</b> Ear-bud with PTT on MIC VOX switch	<b>EAM13</b> 2-wire surveillance earpiece VOX switch	
					
<b>ACM-01</b> PTT&MIC-only with 3.5mm jack Ip54	<b>ES-01</b> Receive-only ear-bud	<b>ES-02</b> Receive-only surveillance earpiece	<b>EH-01</b> Receive-only C style earpiece	<b>EH-02</b> Receive-only earhook speaker	
					
<b>PC76</b> Data programming cable	<b>SM08M3</b> Remote speaker microphone with 3.5mm audio jack	<b>SM26M1</b> <sup>①</sup> Remote speaker microphone Ip54 with 2.5mm audio jack	<b>NCN019</b> A washable nylon chest pack, easy to carry.	<b>NCN011</b> Nylon carrying jacket	
					
<b>BL2018</b> 2000mAh Li-ion battery	<b>MCL19</b> BD50X multi-unit charger	<b>CHV09</b> Vehicle adapter (Input: 11-25V DC, Output: 12V DC & 1A)	<b>AN0435H13</b> Stubby antenna,400-470MHz, <sup>②</sup> 9cm		

① SM26M1 can be used with earpiece EAS03

② AN0435H13: 400-470MHz, 9cm AN0141H06: 136-147MHz, 17cm AN0167H07: 160-174MHz,12cm AN0153H08: 147-160MHz/1575MHz, 12cm  
AN0435W09: 400-470MHz, 16cm AN0153H07: 147-160MHz, 17cm AN0160H13: 146-174MHz, 15cm AN0167H07: 160-174MHz/1575MHz, 12cm

# SPECIFICATION

General		
Frequency Range		UHF: 400-470 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 )		Analogue/Digital: 11/17 hours (1500mAh)
Weight		240g
Dimensions		108×54×29mm
Frequency Stability		±0.5ppm
Antenna Impedance		50Ω
Receiver		
Sensitivity (Digital)		0.22μV / BER 5%
Sensitivity (Analogue)		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

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 @ 12.5kHz
Adjacent Channel Power	60dB @ 12.5kHz, 70dB @ 25kHz
Audio Response	+1 ~ -3dB
Audio Distortion	≤5%
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

BD615, 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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