



BD305LF BUSINESS DIGITAL RADIO SIMPLE, ROBUST, LICENCE FREE



Hytera's BD305LF two-way radio is the compact device that provides professional licence-free communication and easily operated.

Our users rely on our digital devices to provide clear audio, easy to understand voice communications. The long battery life ensures you are always connected, while the clever design is easy to grab and intuitive to operate.

Hytera understands our customer requirements, advanced features and enterprise level communications systems aren't always necessary. The BD305LF is ideal for users looking for Hytera digital push-to-talk technology, in a small, slim, robust device, licence-free and ready to respond when you need it.

SLIM AND LIGHTWEIGHT

The BD305LF weighs just 140g, easily held, clipped or put in your pocket, making it the ideal companion for communicating throughout your shift.

DIGITAL PERFORMANCE

Although limited to licence-free power output, the BD305LF still delivers excellent reception and talk range. Operational in either Analogue or Digital mode, using TDMA technology the radio can work for up to 16 hours in Digital.

RUGGED AND RELIABLE

The BD305LF 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.

CLEAR AUDIO

With digital voice encoding and correction technology, the human voice is transmitted clearer with less background noise over a greater distance.



PROFESSIONAL AND SIMPLE TO USE

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ANALOGUE & DIGITAL DUAL MODES

The BD305LF can support both Analogue and Digital modes. You can switch between the two operations easily, ideal if using a mixed fleet of devices.



ANALOGUE & DIGITAL AUTO DETECT

The BD305LF can detect the signal type when receiving a call, automatically switching between analogue mode and digital mode. During the call hang time, the user can reply by simply utilising the push-to-talk. This can greatly assist with migration from analogue to digital communications.



EXTENDED TALK RANGE

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



LONG BATTERY LIFE

The BD305LF in digital mode can work for up to 16 hours according to the 5-5-90 principal.



CLEAR VOICE

The digital DMR technology delivers excellent audio quality, making communications more reliable.

RELIABLE AND DURABLE

The BD305LF is compliant with MIL-STD-810 G and 1P54.



ANTI-INTERFERENCE

The BD305LF adopts digital encoding and error correction, avoiding signal interference on the same frequency.

DMR DMR SIGNALING

With DMR signaling, transmitting group calls, private calls and all calls with the PTT ID is simple.

↔) VOICE ANNOUNCEMENT

Channel number announcement helps you to switch channels quickly and accurately, ideal when visibility is low.



DUAL CAPACITY DIRECT MODE

In direct mode, you can have two voice calls simultaneously utilising two DMR time slots. This feature can be used to increase the radio traffic capacity.

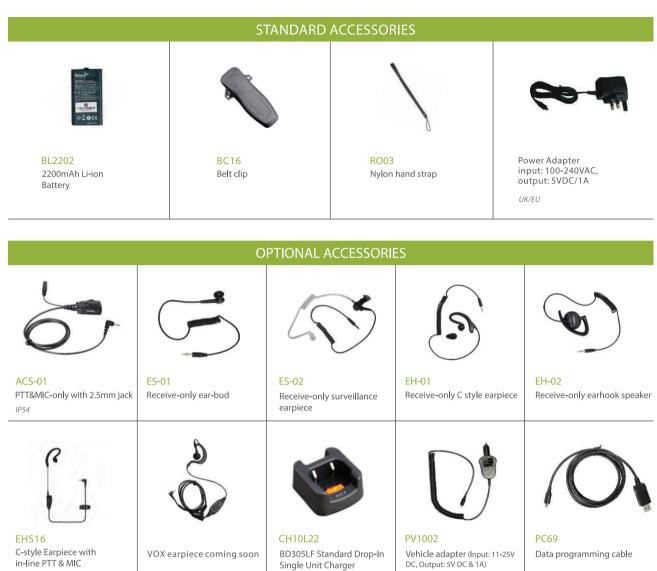
🕦 vox

When using a VOX earpiece, you can activate the microphone using your voice, freeing your hands from the PTT.

SCANNING

Allows the BD305LF to listen to communication activity on other channels.

ACCESSORIES





SPECIFICATION

UHF 446.0MHz, 446.1MHzChannel Capacity48Zone Capacity3Channel Spacing25/12.5KHzOperating Voltage3.8VBattery2200mAh (Li-Ion)Battery Life (5/5/90)Analogue/Digital: 12/16 hours (2200mAh)Weight140g (including battery)Dimensions101×49×26mmFrequency Stability± 0.5ppmAntenna Impedance50 QSensitivity (Digital)0.22 μ V (Typical) (12dB SIN AD) 0.4 μ V (20dB SIN AD)Adjacent SelectivityETSI65dB @ 12.5KHzSpurious Response RejectionETSI65dB @ 12.5KHzHum & Noise40dB @ 12.5KHz 45dB @ 25KHzHum & Noise0.5WRated Audio Distortion<5% 4udio Response +1 ~-3dBConducted Spurious Emission<-57dBm	General				
Zone Capacity 3 Channel Spacing 25/12.5KHz Operating Voltage 3.8V Battery 2200mAh (Li-Ion) Battery Life (5/5/90) Analogue/Digital: 12/16 hours (2200mAh) Weight 140g (including battery) Dimensions 101×49×26mm Frequency Stability ± 0.5ppm Antenna Impedance 50 Ω Sensitivity (Digital) 0.22 µ V / BER 5% Sensitivity (Analogue) 0.22 µ V (Typical) (12dB SIN AD) 0.4 µ V (20dB SIN AD) Adjacent Selectivity ETSI 65dB @ 12.5KHz Spurious Response Rejection ETSI 65dB @ 12.5KHz Inter-modulation ETSI 60dB @ 12.5KHz Hum & Noise 40dB @ 12.5KHz Addia @ 25KHz 40dB @ 25KHz Rated Audio Power Output 0.5W Rated Audio Distortion <5%	Frequency Range		UHF 446.0MHz, 446.1MHz		
Channel Spacing $25/12.5$ KHzOperating Voltage $3.8V$ Battery 2200 mAh (Li-Ion)Battery Life (5/5/90)Analogue/Digital: 12/16 hours (2200mAh)Weight140g (including battery)Dimensions $101 \times 49 \times 26$ mmFrequency Stability ± 0.5 ppmAntenna Impedance 50Ω Sensitivity (Digital) $0.22 \mu V / BER 5\%$ Sensitivity (Analogue) $0.22 \mu V / Typical) (12dB SIN AD)$ $0.4 \mu V (20dB SIN AD)$ Adjacent SelectivityETSI65dB @ 12.5KHzRejectionETSI65dB @ 12.5KHzInter-modulationETSI66dB @ 12.5KHzHum & Noise $40dB @ 12.5KHz$ Hum & Noise $40dB @ 12.5KHz$ Addio Power Output $0.5W$ Rated Audio Distortion $<5\%$ Audio Response $+1 \sim -3dB$	Channel Capacity		48		
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Hum & Noise 40dB @ 12.5KHz 45dB @ 25KHz Rated Audio Power Output 0.5W Rated Audio Distortion ≤5% Audio Response +1 ~ -3dB	Response	ETSI	65dB @ 12.5KHz		
Hum & Noise 45dB @ 25KHz Rated Audio Power Output 0.5W Rated Audio Distortion ≤5% Audio Response +1 ~ -3dB	Inter-modulation	ETSI	60dB @ 12.5KHz		
Rated Audio Distortion ≤5% Audio Response +1 ~ -3dB	Hum & Noise		_		
Audio Response +1 ~ -3dB	Rated Audio Power Output		0.5W		
	Rated Audio Distortion		≤5%		
Conducted Spurious Emission <-57dBm	Audio Response		+1 ~ -3dB		
	Conducted Spurious Emission		<-57dBm		

Transmitter			
RF Power Output	0.5W		
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° C		
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		

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

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Your Hytera partner:

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Hytera

Respond & Achieve

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