

BENELEC

Professional Wireless Solutions

BL500

PROFESSIONAL
PORTABLE RADIO

• Frequency Options

BL500M 66 - 88 MHz

BL500V 136 - 174 MHz

BL500U 403 - 520 MHz

- 5/2/1W Output Power
- 255 Channels
- Rugged Construction to MIL-STD-810 D/E/F

Rugged & Reliable

The BL500 series portable has been built to withstand the most demanding harsh environments and complies to MIL-STD810 D, E, & F.

Water + Dust Resistant IP65

The BL500 series portable is rated to IP65 providing protection against dust and low pressured jets of water.

Multiple Signalling Options

These radios provide a wide range of signalling options allowing dealers maximum flexibility in configuring systems. Signalling options include: CTCSS, 2 Tone, 5 Tone, DTMF encode (DTMF decode optional).

Powerful Audio

A powerful 1000 mW speaker high-quality superb clear, crisp sound, even in noisy environments.

Built In Voice Encryption

The scrambler feature provides enhanced security for your important public safety and private security communications.

Selectable CTCSS Privacy Tones

CTCSS Tones can be selected via the front key pad of the radio as required. This enables the user to eliminate interference from other local users on the same channel when they choose, providing privacy.

* Yellow or blue case colours available on request.



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Key Features

- Scan
- Priority Scan
- DTMF Encode
- CTCSS/DCS
- PC Programming/Tuning
- Battery Save
- Low Battery Alert
- Auto Squelch
- Group Call
- Kill/Revive
- Programmable Function Keys
- Talk Around
- Channel Alias
- Programmable Alert Tone
- Battery Gauge
- VOX
- Key Pad Beep
- Key Lock
- Power-On Password
- RSSI (Received Signal Strength Indicator)
- Whisper - Selectable Gain Level
- Large Backlit Alphanumeric Display
- Lone Worker

Optional Features

- Man Down Switch
- DTMF Decoder













Receiver	
Sensitivity (12 dB SINAD) EIA	0.25 μ V
Adjacent Channel Selectivity	70(wide) 60dB(narrow)
Intermodulation	65 dB
Spurious and Image Rejection	70 dB
Hum and Noise	40 dB
Rated Audio Power Output	1000mW
Rated Audio Distortion	<5%


Transmitter	
Power Output	5 / 2 / 1 W
Modulation	16K Φ F3E / 8K5 Φ F3E
Spurious Emission	-36dBm<1GHz
FM Hum & Noise	40dB
Audio Distortion (@ 1 kHz)	< 5%

Specifications	BL500M	BL500V	BL500U
Part No.	0113111	0113112	0115138
Frequency Range	66 - 88 MHz	136 - 174 MHz	403 - 520 MHz
Number of Channels	255		
Number of Groups	32		
Channel Spacing	12.5 / 25 KHz		
Battery Capacity	1800 mAh Li-Ion		
Power Supply Voltage	7.4 v DC		
Current Consumption (w/save) STBY RX TX	(50 mA) 60 mA 300 mA 2 Amp		
Battery Life	Approximately 8 hours (5-5-90 Duty Cycle)		
Ambient Temperature Range	-30~+60 (°C)		
Frequency Stability	\pm 2.5 ppm		
Dimensions (WxHxD)	114x55x30mm (without antenna)		
Weight (approx)	300 gm (with antenna and battery)		


Optional Accessories

 BB501 Battery 1700 mAh Li-Ion (P# 06105101)	 BRC516 6 Bay Charger (P# 06105105)	 BRC510 Rapid Dual Slot Radio + Battery Charger (P# 06105102)	 LCC500S BL500 Leather Carry Case with Security Swivel (P# 06107301)	 BFD-1 Flexible D Single Wire Kit (P# 07832H)
 BHA-1 Single Wire Surveillance Kit (P# 078211H)	 LWH-1 Light Weight VOX & PTT Headset (P# 07842H)	 07845H Throat Mike with Acoustic Ear (P# 07845H + 07450H)	 PCC501 USB Programming and Tuning Cable (P# 0620632)	 BA500M BA500V BA500U Replacement Antenna (P# 0631232VM) (P# 0631232V) (P# 0631232U)

Included Accessories

- Li-Ion 1800 mAh Battery
- AC Rapid Charger
- Belt Clip
- Antenna
-  Termination

Available From:

Please Note. For a wide range of portable Accessories please refer to Benelec's  Termination series of Accessories.



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