



COMMERCIAL

25 WATT COMMERCIAL ANALOG MOBILE RADIO CM50

Designed, engineered and manufactured in Australia, the CM50 is a fully featured 25 Watt commercial mobile radios that is available in both VHF (134 -174 MHz) and UHF (450-520 MHz) and supports up to 2000 total channels across 50 Zones, including 80 UHF CB / PRS channels.

Backed with an impressive 5 Year Warranty and offering dealer enabled features such as dedicated emergency button, lone worker, RSSI and Busy Voting, the CM50 is well suited for high transmit power applications as well as high end safety & large network configurations.

Available in several customisable configurations, the CM50 can be supplied as a kit with either a Heavy Duty IP67 Dust Tight & Waterproof Fist Microphone (MP600B), Remote Head Kit (RH006), Compact Controller Microphone (UIC500B) or Advanced Controller Microphone (UIC600).

KEY FEATURES

- 2000 Total Channel Capacity
- 80 UHF CB / PRS Capable (UHF Only)
- (UHF) 450-520 MHz or (VHF) 136-174 MHz
- 50 Zones
- 5 / 25 Watt Transmission Power
- Dedicated Emergency Button
- Lone Worker
- 5 Tone Selcall
- MDC 1200 Compatible
- RSSI & Busy Voting



5 YEAR WARRANTY

Specifications

GENERAL

Available Frequency Range:	(UHF) 450-520 MHz (VHF) 136-174 MHz
Number of Channels:	2000 (80CB (UHF Only))
Number of Zones:	50
Channel Spacing:	12.5 kHz
Channel Steps:	12.5 kHz, 6.25 kHz, 5 kHz, 2.5 kHz
Frequency Stability:	±1.5ppm for -20°C to 60°C
Antenna Impedance:	50 Ohms
Supply Voltage:	13.8 V Negative Earth
Operating Voltage Range:	10.8 V to 15.6 V
Reverse Polarity Protection:	Diode
Over Voltage Protection:	18V crowbar
Fuse:	2 x 10A Blade Type In-line Fuse
Current Drain Voice (Approx.):	RX Muted: 220 mA
	RX Full Audio: 1A
	TX 6A (25W)

TRANSMITTER

Power Output:	High: 25W
	Low: 5W
Transmit Duty Cycle:	4:1 for 25W Output
Modulation:	FM
Deviation Limiting:	5 kHz, 2.5 kHz at 20dB AF Limiting
TX Audio Frequency Response:	+6 dB/Octave, +1 dB/-3 dB, 300 Hz to 3 kHz
AF Distortion:	3% Below Limiting
TX Audio Residual Noise and Hum:	-40 dB
Spurious Emission:	-36 dBm
Adjacent Channel Power:	-60 dBc

RECEIVER

Analog Sensitivity:	-121 dBm for 12 dBm SINAD Unweighted
IF Frequencies:	38.85 MHz (UHF) 450KHz
Spurious Rejection:	80 dB
Adjacent Channel Selectivity:	60 dB
Intermodulation Rejection:	75 dB
Blocking:	100 dB
Conducted Spurious Emissions:	-80 dBm
RF Switching Bandwidth:	UHF 70 MHz
Circuit Type:	Double Conversion Superheterodyne, DC Coupled, DSP Audio Processing

AUDIO

RX Audio Frequency Response:	+6 dB/octave, +1 dB/-3 dB, 300 Hz to 3 kHz
RX Audio Residual Hum and Noise:	-40 dB
Audio Output Power Internal Speaker:	3W (RMS)
Audio Output Power External Speaker:	3W (RMS) into 4Ω
Audio Output Power UIC600:	2W (RMS) into 8Ω

MECHANICAL AND ENVIRONMENTAL

Dimensions:	28.9mm (H) x 127mm (W) x 162.8mm (D)
Weight:	620g (Chassis)
Operating Temperature Range:	-20°C to +60°C
Antenna Connector:	BNC

Accessories

MICROPHONES

MP600B: Heavy Duty IP67 Fist Mic to suit CM & TX Series

DC LEAD

LE013: 3M DC Lead to suit 25W CM & TX Series

MOUNTING BRACKET

MB009: Mounting Bracket to suit CM & TX Series

CONTROLLER MICROPHONES

UIC500B: Compact OLED Controller Microphone to suit CM Series – Black

UIC600B: Advanced OLED Controller Microphone to suit CM Series – Black

UIC600G: Advanced OLED Controller Microphone to suit CM Series – Green

REMOTE MOUNT KIT

RH006: Remote Head with 1.8m Lead to suit CM Series

RCK-CMSERIES: Local to Remote Head Assembly Kit for CM Series

PROGRAMMING CABLE

LS1-USB: Programming Lead to suit CM & TX Series

LS002: Programming Adaptor for CM & TX Series Local Radios (requires LS1-USB)

LS003: Programming Adaptor for CM & TX Series Base Radios (requires LS1-USB)

LS-UIC: Programming Lead to suit UIC600



UIC600B
Advanced Controller
Microphone
*1 Year Warranty



UIC500B
Compact Controller
Microphone
*1 Year Warranty



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5 YEAR
WARRANTY