

COMMERCIAL

25 WATT COMMERCIAL ANALOG MOBILE RADIO CM50

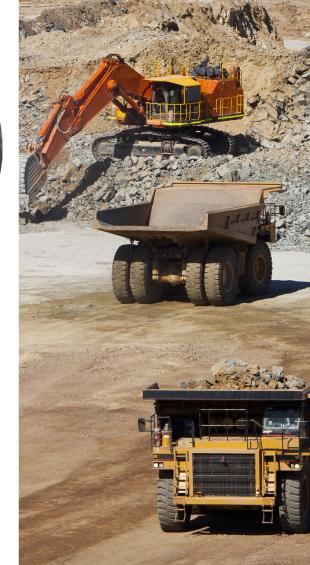
Designed, engineered and manufactured in Australia, the CM50 is a fully featured 25 Watt commercial mobile radios that is available in both VHF (134 -174 MHz) and UHF (450-520 MHz) and supports up to 2000 total channels across 50 Zones, including 80 UHF CB / PRS channels.

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 Dedicated Emergency Button Lone Worker 5 Tone Selcall MDC 1200 Compatible RSSI & Busy Voting





CM50-U25B



CM50 Base Unit for Remote & Controller Microphone Configurations



Specifications

GENERAL	(UHF) 450-520 MHz
Available Frequency Range: –	
Number of Channels:	(VHF) 136-174 MHz 2000 (80CB [UHF Only])
Number of Zones:	50
	12.5 kHz
Channel Spacing: 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
1056.	RX Muted: 220 mA
– Current Drain Voice (Approx.):	RX Full Audio: 1A
	TX 6A (25W)
RANSMITTER	
	High: 25W
Power Output: -	Low: 5W
Transmit Duty Cycle:	4:1 for 25W Output
Modulation:	FM
Deviation Limiting:	5 kHz, 2.5 kHz at 20dB AF Limiting
	+6 dB/Octave, +1 dB/-3 dB,
TX Audio Frequency Response:	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	-121 dBm for 12 dBm SINAD
Analog Sensitivity:	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 UHF 70 MHz
RF Switching Bandwidth:	Double Conversion
Circuit Type:	Superheterodyne, DC Coupled, DSP Audio Processing
AUDIO	
RX Audio Frequency Response:	+6 dB/octave, +1 dB/-3 dB,
RX Audio Residual Hum and Noise:	300 Hz to 3 kHz -40 dB
Audio Output Power Internal Speaker:	3W (RMS)
Audio Output Power External Speaker:	3W (RMS) into 4Ω
Audio Output Power External Speaker. 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

Intertor Holles	
MP600B:	Heavy Duty IP67 Fist Mic to suit CM & TX Series
DC LEAD	
LE013:	3M DC Lead to suit 25W CM & TX Series
MOUNTING BRACK	ET
MB009:	Mounting Bracket to suit CM & TX Series
	OPHONES
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 K	(IT
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
L5002:	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



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