

UHF400R

Heavy-duty 5watt UHF CB Radio
Built for Australian Transport



Key Features

- 5.0 Watts (max TX power)
- 80 Narrowband Channels*
- 12v/24v auto switching
- Automatic level control (ALC) for consistent audio output
- Heavy-duty microphone with channel control
- Heavy duty microphone with volume control
- Wideband scanner (400 – 512MHz)
- 8500+ Receive frequencies
- 200 user programmable receive only channels
- 5 Digit Selcall ID with alpha display
- Full e-Din
- Built-in dynamic front speaker
- 38 CTCSS and 104 DCS Codes
- Multi-colour backlit LCD display (Amber/Green)
- Duplex (range extender)
- Open/Group/Priority Scan
- Priority channel
- Large easy to read LCD display
- Rotary channel select
- Rotary squelch control
- Busy channel lockout
- Rugged short chassis construction with external heat sink
- One 3.5mm external speaker connections (external speaker not supplied)
- Requires external antenna (not supplied)

Designed and engineered in Korea

Pack Includes;

- In-vehicle UHF CB Radio transceiver
- Microphone plus microphone hanger
- DIN Kit Power cable with in-line fuse
- mounting brackets and fittings



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UHF400

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UHF400 Technical Specification

Compliance	AS/NZS 4365:2011
Frequency Range TX	476.425 - 477.4125 MHz
Frequency Range RX	400 - 512MHz
Number of TX/RX Channels	80 UHF CB Channels (75 voice)
Number of user programmable RX only Channels	200
Channel Spacing TX/RX	12.5KHz
Wide Band Scanner	400~512, (400~420, 420~450, 450~470, 470~512) MHz
Operating modes	Simplex, Repeater TX offset (+750kHz)
Selcall ID	5 Digit with alpha display
Scanning Speed	130 msec per channel
Antenna Impedance	50 Ohms
Automatic Level Control	For consistent audio output
Operating Volts Range	10 to 30 VDC
Over Voltage Protection	voltage regulator
Over Current Protection	2 Amp fuse
Reverse Polarity Protection	Series diode
Frequency Stability	+/- 2.5ppm
Transmitter	
RF Output Power	5watts max.
Modulation	F3E (FM)
Maximum Deviation	2.5kHz
Spurious Emissions	< -30 dBm
TX Audio pre-emphasis	+ 6dB/octave from 300Hz to 3kHz
Current Consumption during TX	1.6 Amps with 50 Ohm antenna termination
Receiver	
Circuit Type	Dual conversion superheterodyne
IF Frequencies	1st IF = 21.4MHz , 2nd IF = 450kHz
Current Consumption during RX	200mA
Sensitivity	< -123dBm at 12dB SINAD
Sensitivity Receive only channels	< -110dBm for 12dB SINAD
Selectivity	+/-3.75kHz min @ 3dB to +/-15kHz max @ 40dB
Intermodulation Immunity	> 70dB
Spurious Immunity	> 70dB
Audio Output Power	3 Watts Maximum
RX Audio de-emphasis	-6dB/octave 300Hz to 3kHz
Audio frequency response	300Hz to 3kHz
External speaker jacks	for optional 8 Ohm mono speaker (3.5mm jack) mono speaker (3.5mm jack.)

100% Australian Owned Company

*This 80 channel narrowband radio communicates with 40 channel radios on the first 40 channels (1 to 40) but has another 40 channels (41 to 80) which will communicate with new 80 channel narrowband radios. In total there are 75 useable Narrowband voice channels. Voice communications are prohibited on Channels 22 and 23 as they are used for Telemetry and Telecommand. Channels 61,62 and 63 are guard channels and are not available for use. Channel 5 and 35 (paired for Duplex repeaters) are emergency channels and should be used only in an emergency. The CTCSS and DCS function are not allowed to operate on these channels. A list of currently authorised channels can be obtained from the ACMA website in Australia and the MED website in New Zealand. There are 8 Repeater channels 1 to 8 output (31 to 38 input). Additional repeater channels 41-48 input and 71-78 output are now also available. This radio is user upgradable at no cost to allow repeater use on channels 41-48 and 71-78. Details are available on our website on how to upgrade the radio. Any designated repeater channel may be used for simplex operation in areas where it is not in operational range of a CB repeater station.