

The World's First Active Noise-Cancelling Handheld with DSC, GPS and MOB



New Intuitive User Interface

The new menu system provides easy and intuitive operation. The bottom line of the display shows the software key functions which can be toggled with the left and right buttons.



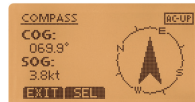
Active Noise Cancelling

Built-in bi-directional active noise cancelling reduces background noise by up to 90% improving both your transmitted voice and incoming calls... hear and be heard more clearly.

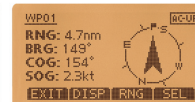


Built-in GPS and (MOB) Man OverBoard function

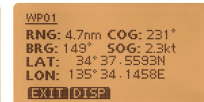
The built-in high sensitivity GPS receiver shows your current position and can be used for DSC calls. The GPS provides waypoint/compass functions allowing a boat to steer to waypoints within a route.



Compass



Waypoint Navigation



A Man OverBoard (MOB) function allows you to record current time and position of the MOB, allowing you to navigate back to the position where the MOB was recorded. These features, dependant on the size of your vessel, could provide a central or back-up navigation tool.



Built-in DSC for Handheld

The DSC function includes; distress, individual, group, all ships, urgency, safety and DSC test calls.



Float 'n' Flash

The IC-M91D floats in the water in the face-up position and lets you know where it is with the LCD flashing and audible beep alarm feature as an aid for retrieval in the dark.



700mW Loud Audio

The large speaker delivers 700mW (typ.) of loud and intelligible audio even in noisy environments.

Additional features:

- Optional HM-167 waterproof speaker-microphone
- 50 waypoint memories
- AquaQuake™ draining function

General

| | |
|---|--|
| Frequency range: | Tx: 156.000~161.450MHz Rx: 156.000~163.425MHz |
| Usable channel groups: | INT channels |
| Type of emission: | 16K0G3E (FM) 16K0G3B (DSC) |
| Current drain (at 7.4V.DC) | |
| Tx - 5W output: | 1.5A |
| Rx - AF Max: | 500mA |
| Operating temp. range: | -15°C to +55°C |
| Antenna impedance: | 50 ohms |
| Dimensions: (W x H x D) (Projections not included) | 61.2 x 141.4 x 43.2 mm |
| Weight (approx): | 318g (With BP-275, FA-SC59V, MB-109) |

Transmitter

| | |
|---------------------------|---------|
| Output power: (Hi/Low) | 5W/1W |
| Max. frequency deviation: | ±5kHz |
| Frequency stability: | ±1.5kHz |
| Spurious emissions: | 0.25µW |

Receiver

| | |
|-------------------------------|--|
| Sensitivity: (at 20db SINAD) | -4dBµ emf. typ. |
| Squelch sensitivity: | -5dBµ emf. typ. (at threshold) |
| Adjacent channel selectivity: | 70dB |
| Spurious response: | 70dB |
| Intermodulation rejection: | 68dB |
| Hum and noise ratio: | 40dB |
| Audio output power: | 700mW typ. (Internal SP @ 1kHz) 200mW (External SP) |

GPS (GPS Module Specifications)

| | |
|--------------------|--|
| Receiver channels: | 48 channels |
| Sensitivity: | Less than -146dBm |
| Time to first fix: | 36 sec. typ. (cold start) 1 sec. typ. (hot start) |

Measurements made in accordance with EN302-885-1. All stated specifications are subject to change without notice or obligation.

Applicable U.S. Military Specifications & IP Rating

| Standard | MIL-810G | |
|-------------------|----------|-----------|
| | Method | Procedure |
| Low pressure | 500.5 | I,II |
| High Temperature | 501.5 | I,II |
| Low temperature | 502.5 | I,II |
| Temperature shock | 503.5 | I-C |
| Solar radiation | 505.5 | I |
| Rain blowing/drip | 506.5 | I, III |
| Humidity | 507.5 | II |
| Salt fog | 509.5 | - |
| Dust blowing | 510.5 | I |
| Immersion | 512.5 | I |
| Vibration | 514.6 | I |
| Shock | 516.6 | I, IV |

Also meets equivalent MIL-STD-810-C, D, E and F

Ingress Protection Standard

| | |
|-------|------------------------------|
| Water | IPX7 (Waterproof protection) |
|-------|------------------------------|

- Dual/Tri-Watch function for monitoring CH.16 and/or call channel
- Battery indicator shows remaining battery power in 4 levels
- Favourite channel function

| | | |
|---|--|--|
| BATTERY PACK  BP-275 Li-Ion 7.4V. 1500mAh | REGULAR CHARGER  BC-01 BC-204 | RAPID CHARGER  BC-06 BC-205 |
| MULTI-CHARGER  BC-197 BC-157S | SPEAKER MICROPHONE  HM-167 | BELT CLIP  MB-109 |
| LEATHER BELT HANGER  MB-96F | CIG. LIGHTER CABLES  CP-25 For use with BC-204 CP-23L For use with BC-205 | DC POWER CABLES  OPC-515L For use with BC-205 OPC-656 For use with BC-197 |

IC-M91D is supplied complete with:

- BC-01 AC adaptor
- BC-204 Battery charger
- BP-275 Battery pack
- MB-109 Belt clip
- FA-SC59V Antenna
- Hand strap



ICOM-UK

Blacksole House, Altira Park, Herne Bay, Kent CT6 6GZ. UK.

Telephone: +44 (0)1227 741741. Fax: +44 (0)1227 741742.

e-mail: info@icomuk.co.uk website: www.icomuk.co.uk