

 ICOM

VHF MARINE TRANSCEIVER

# IC-M33

# It really floats!

**BUOYANT**

**Waterproof**

1m depth for 30 minutes



Introducing the world's first\*<sup>1</sup> 5W VHF marine transceiver that floats! If you drop the IC-M33 into water, the radio comes up to the surface so that you can easily retrieve it from out of the water. As the radio has a rugged waterproof body\*<sup>2</sup>, it will keep on working even after it has been submerged. Reliable marine communications that won't let you down in or out of your boat!

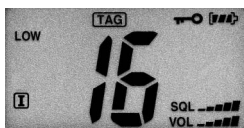
When actually floating, the base of the radio is level with the water surface.

\*<sup>1</sup> First as a 5W VHF marine handheld transceiver as researched by Icom as of October 2006.

\*<sup>2</sup> 1m depth for 30 minutes, equivalent to IPX7. The IC-M33 is not designed to be used under the water.

**Easy to see LCD with large channel indication**

The IC-M33 has an easy to see LCD (32x16 mm) with a clear 2-digit channel number indication. The Volume and SQL levels are shown in the display. LCD and key back-lighting is standard for night time operation.



Actual display size.

**Easy to use, easy to hold**

9 large buttons on the front panel provide simple straight forward operation. It weighs only 305g, and the IC-M33's easy-to-hold rounded body fits comfortably in your hand.

**Quick channel selection with Favourite channel function**

Tag your favourite or often used channels then push the "FAV" button, and easily recall those channels, while ignoring un-tagged channels.

**Li-Ion battery and charger standard**

A Lithium-Ion battery pack and battery charger are supplied as standard. The BP-252 Lithium-Ion battery pack provides 9 hours\* of operating time.

\* Typical operation with Tx (Hi): Rx: standby=5:5:90

**AquaQuake draining function**

The AquaQuake draining function emits a vibrating sound and clears water away from the speaker grill.

**Optional speaker-microphone, HM-165**

The new optional waterproof speaker-microphone HM-165 will still allow the IC-M33 to float when attached. You will get great audio from it as well.

**Other features**

- Powerful 5W output power
- Dual/Tri-watch functions
- 4-step battery life indicator
- 2-step power saver
- 70 programmable channels
- Auto scan function
- Instant access to Ch 16 or programmable call channel
- Optional battery case for using with alkaline cells\*

**SPECIFICATIONS**

**GENERAL**

- Frequency range :
  - Tx 156.000-161.450MHz
  - Rx 156.000-163.425MHz
- Usable channels : INT, USA\* channels; (\* Depending on version)
- Current drain (at 7.4V DC, approx.) :
  - Tx 5W output 1.5A
  - 1W output 0.7A
  - Rx AF max. 200mA
- Operating Temp. range : -15°C to +55°C
- Antenna impedance : 50Ω (STUD)
- Dimensions (WxHxD) : 62x141.5x43 mm (projections not included)
- Weight (approx.) : 305g (with BP-252, FA-SC58V and MB-109)

**TRANSMITTER**

- Output power : 5/1W (With BP-252) 2/1W (With alkaline cells)
- FRG/HOL versions Max. 1W (in ATIS setting)
- Max. frequency deviation : ± 5.0kHz
- Audio harmonic distortion: Less than 10% (at 60% dev.)
- Frequency error : ± 1.5kHz
- Spurious emissions : Less than 0.25µW
- Adjacent channel power : 70dB
- Residual modulation : 40dB

**RECEIVER**

- Sensitivity (20dB SINAD) : -2dBµ emf typical
- Squelch sensitivity : -6dBµ emf typical (threshold)
- Adjacent Ch. selectivity : 70dB
- Spurious response : 70dB

- Intermodulation rejection : 68dB
- Hum and noise ratio : 40dB
- Audio output power : 0.2W (at 10% distortion with an 8Ω load)

**OPTIONS**

Some options may not be available in some countries. Please ask your dealer for details.



**BP-251 BATTERY CASE**  
Battery case for AAA (LR03)x5 alkaline cells. Output power: 2W.  
**BP-252 7.4V/980mAh Li-Ion BATTERY PACK**  
Provides 9 hours operating time (approx.). (Typical operation with Tx (Hi): Rx: standby=5:5:90)



**BC-173 DESKTOP CHARGER + BC-174E AC ADAPTER**  
Regularly charges the battery pack, BP-252 in 10 hours (approx.).



**BC-162 DESKTOP CHARGER + BC-145E/UK AC ADAPTER**  
Rapidly charges the battery pack, BP-252 in 2 hours (approx.).



**HM-165 SPEAKER-MICROPHONE**  
Waterproof construction equivalent to IPX7 (1 m depth for 30 min.).

**Supplied accessories**



- Battery pack, BP-252
  - AC adapter, BC-174E\*
  - Antenna, FA-SC58V
  - Battery case, BP-251 (UK version only)
  - Battery charger, BC-173
  - Belt clip, MB-109
  - Hand strap
- (\* Not supplied depending on version.)

- MB-109 BELT CLIP**  
Alligator type. Same as supplied.
- FA-SC58V ANTENNA**  
Soft flexible antenna. Same as supplied.
- CP-17L CIGARETTE LIGHTER CABLE**  
For use with the BC-173 or BC-162 with an external DC power supply. (12-16 V DC required)

\* The IC-M33 floats when used with most common brand AAA batteries. Battery weight varies by manufacturer. Please check your IC-M33 for buoyancy in a shallow area when using AAA batteries.

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