



VHF MARINE TRANSCEIVER

IC-M33

It really floats!

BUOYANT

Waterproof

1m depth for 30 minutes

Rugged

MIL-STD 810



Introducing the world's first*¹ 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*², 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.

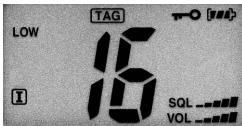
*¹ First as a 5W VHF marine handheld transceiver as researched by Icom as of October 2006.

*² 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 (32×16 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 untagged 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*¹

SPECIFICATIONS

GENERAL

- Frequency range :
 - Tx 156.000–161.450MHz
 - Rx 156.000–163.425MHz
- Usable channels : INT, USA* channels;
 - (* Depending on version)
- Type of emission : 16K0G3E (FM)
- 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 (W×H×D) : 62×141.5×43 mm (projections not included)
- Weight (approx.) : 305g (with BP-252, FA-SC58V and MB-109)

Measurements made in accordance with EN301-178-2. All stated specifications are subject to change without notice or obligation.

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)

Applicable U.S. Military Specifications

Standard	MIL 810 F	
	Method	Procedure
Temperature Shock	503.4	I
Rain	506.4	I, III
Humidity	507.4	–
Salt Fog	509.4	–
Immersion	512.4	I
Vibration	514.5	I
Shock	516.5	I, IV

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

Supplied accessories

- Battery pack, BP-252
- AC adapter, BC-147*
- Antenna, FA-SC58V
- Battery charger, BC-173
- Belt clip, MB-109
- Hand strap

(* Not supplied depending on version.)

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)×5 alkaline cells.
Output power: 2W.
BP-252 Li-Ion BATTERY PACK, 7.4V, 950mAh (min.), 980mAh (typ.) Provides 9 hours operating time (approx.). (Typical operation with Tx (Hi): Rx: standby=5:5:90)

*¹ 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.



BC-173 DESKTOP CHARGER
+ **BC-147*** AC ADAPTER
Regularly charges the battery pack, BP-252 in 10 hours (approx.).

*¹ BC-145/BC-147SA for 120V AC. SE for 230V AC. SV for 240V AC. BC-145SUK for 230V AC.



BC-162 DESKTOP CHARGER
+ **BC-145*** 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.).

MB-109 BELT CLIP
Alligator type.
Same as supplied.
FA-SC58V ANTENNA
Soft flexible antenna.
Same as supplied.

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