



VHF MARINE TRANSCEIVER IC-M36



"Automatic Volume Adjustment"

"Noise Cancelling Mic"

"Loud: Instant Maximum Audio"

- "Motor boats"
- "Engine noise"
- "Personal watercraft"
- "700W Audio with BTL Amp"
- "Forklifts and wharf"
- "Landing and unloading"
- "Wharf Crane"
- "Engine noise"
- "Personal watercraft"
- "Roar of waves"
- "Large cargo vessels and tug boats"

CLEAR VOICE BOOST

(Clear Voice + Voice Boost)

In marine environments there are many sources of noise that can affect the quality of your communications, such as engine noise, breaking surf and more. The IC-M36 automatically adjusts the outgoing voice and the incoming audio to compensate for the ambient noise level: whether you're in a loud environment or in a quiet area, the IC-M36 ensures your radio conversation is sent and received as clearly as possible.

And yes, it floats too!

Continuing the legacy of the IC-M34, the IC-M36 floats back up to the surface if dropped overboard, even if the optional speaker microphone, HM-165, is attached.



FLOATING

Submersible
1m depth for 30 minutes

Rugged
MIL-STD 810

LOUD button

When you need an instant "boost" in the volume, a simple push of the "LOUD" button gives you full volume immediately. In addition, holding the "LOUD" button mutes the audio output.

Noise cancelling microphone

The sub-microphone on the rear panel inverts phase and cancels out ambient noise from the main microphone. As a result, the IC-M36 reduces the affect of background noise (particularly treble noise) from the transmitted signal and makes it easier to catch voice communication.

Automatic volume adjustment

When in an engine room or high noise environment, the sub-microphone detects the ambient noise and the IC-M36 automatically increases the volume output to suit the surrounding environment.

Low power consumption

Although the IC-M36 delivers a high 6 W RF output and 700 mW audio output, its current saving circuit offers a practical 8 hours* of operating time with the supplied 980 mAh Lithium-Ion battery pack.

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

Large buttons and slim dimensions

Thanks to the large, easy-to-operate buttons, the IC-M36 provides intuitive operation. A pinched-waist slender body makes it easy to hold and carry the radio, and is surprisingly compact for a floating radio.

Other features

- IP57 dust protection and waterproof (1 m; 3.3 ft depth of water for 30 minutes) construction
- Dual/Tri-watch functions
- Weather channel with weather alert
- 4-step battery life indicator
- Auto scan function
- Instant access to Ch 16 or Ch 9

SPECIFICATIONS

GENERAL

- Frequency range : Tx 156.025–157.425 MHz
Rx 156.050–163.275 MHz
- Usable channel groups : INT, USA, CAN, WX channels
- Type of emission : 16K0G3E (FM)
- Current drain (at 7.4 V DC) : Tx 6 W output 1.5 A typical
Rx AF max. 300 mA typ. (Internal SP)
200 mA typ. (External SP)
10 mA typ. Power save
- Operating temp. range : -20°C to +60°C; -4°F to +140°F
- Antenna impedance : 50 Ω (STUD)
- Dimensions (W×H×D) : 62×139.5×43 mm;
2.44×5.49×1.69 in (projections not included)
- Weight (approx.) : 295 g; 10.4 oz (With BP-252, FA-SC58V, MB-109)

Measurements made in accordance with TIA/EIA-603. All stated specifications are subject to change without notice or obligation.

TRANSMITTER

- Output power (Hi/Low) : 6 W/1 W
2 W/1 W (Alkaline cells)
- Max. frequency deviation : ± 5 kHz
- Frequency error : ± 10 ppm
- Spurious emissions : -68 dBc typ.
- Adjacent channel power : 70 dB
- Audio harmonic distortion : Less than 10% (at 60% dev.)
- Residual modulation : 40 dB

RECEIVER

- Sensitivity (at 12 dB SINAD) : 0.25 μV typ.
- Squelch sensitivity : 0.35 μV typ. (at threshold)
- Adjacent Ch. selectivity : 70 dB typ.
- Spurious response : 70 dB typ.
- Intermodulation rejection : 70 dB typ.
- Hum and noise ratio : 40 dB
- Audio output power (at 10% distortion) : Internal speaker 700 mW typ. (16 Ω load)
External speaker 350 mW typ. (8 Ω load)

Applicable U.S. Military Specifications & IP Rating

Standard	MIL 810 F	
	Method	Procedure
Low Pressure	500.4	I, II
High Temperature	501.4	I, II
Low Temperature	502.4	I, II
Solar Radiation	505.4	I
Rain	506.4	I, III
Humidity	507.4	-
Salt fog	509.4	-
Dust	510.4	I
Immersion	512.4	I
Vibration	514.5	I
Shock	516.5	I, IV

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

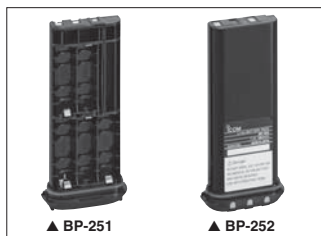
Ingress Protection Standard	
Dust & Water	IP57 (Dust-protection and waterproof protection)

Supplied accessories: (* Not supplied, depending on version)

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

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: 2 W.
BP-252 RECHARGEABLE Li-Ion BATTERY PACK
7.4 V, 940 mAh (min.) 980 mAh (typ.). Provides 8 hours operating time (approx.).
(Typical operation with Tx (Hi): Rx: standby=5:5:90)



BC-173 DESKTOP CHARGER
+ **BC-147*1 AC ADAPTER**
Charges the battery pack, BP-252, in 10 hours (approx.).

*1 BC-147SA for USA plug. BC-147SE for Europe plug. BC-147SV for Australia plug.

*2 BC-123SA for USA plug. BC-145SE for Europe plug. BC-145SV for Australia plug. BC-145SUK for UK plug.



BC-162 DESKTOP CHARGER
+ **BC-145/BC-123*2 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.

Please note : The noise cancellation can produce little or no effect in some conditions depending on type of noise, or the position and distance between the noise source and the microphone, etc.
The noise cancellation does not work when an optional external speaker-microphone is connected.

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