



# 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"
- "Roar of waves"
- "Large cargo vessels and tug boats"
- "Wharf Crane"
- "Engine noise"
- "Gusts of wind"
- "Landing and unloading"
- "Motor boats"
- "Engine noise"
- "Personal watercraft"
- "700W Audio with BTL Amp"
- "Forklifts and wharf"
- "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 6W RF output and 700mW audio output, its current saving circuit offers a practical 8 hours\* of operating time with the supplied 980mAh 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

- Waterproof construction equivalent to IPX7 (1m depth for 30 minutes)
- 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 156.025–157.425MHz, Rx 156.050–163.275MHz
- Usable channel groups : INT, USA, CAN, WX channels
- Type of emission : 16K0G3E (FM)
- Current drain (at 7.4V DC) : Tx 6W output 1.5A typical, 300mA typ. (Internal SP), Rx AF max. 200mA typ. (External SP), 10mA typ.
- Power save
- Operating temp. range : -20°C to +60°C; -4°F to +140°F
- Antenna impedance : 50Ω (STUD)
- Dimensions (W×H×D) : 62×139.5×43 mm; 2.44×5.49×1.69 in (projections not included)
- Weight (approx.) : 295g; 10.4oz (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) : 6W/1W, 2W/1W (Alkaline cells)
- Max. frequency deviation : ±5kHz
- Frequency error : ±10ppm
- Spurious emissions : -68dBc typ.
- Adjacent channel power : 70dB
- Audio harmonic distortion : Less than 10% (at 60% dev.)
- Residual modulation : 40dB

### RECEIVER

- Sensitivity (at 12dB SINAD) : 0.25μV typ.
- Squelch sensitivity : 0.35μV typ. (at threshold)
- Adjacent Ch. selectivity : 70dB typ.
- Spurious response : 70dB typ.
- Intermodulation rejection : 70dB typ.
- Hum and noise ratio : 40dB
- Audio output power (at 10% distortion) : Internal speaker 700mW typ. (16Ω load), External speaker 350mW typ. (8Ω 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)
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### 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: 2W.  
**BP-252 Li-Ion BATTERY PACK 7.4V, 950 mAh (min.) 980mAh (typ.).** Provides 8 hours operating time (approx.).  
(Typical operation with Tx (Hi): Rx: standby=5:5:90)



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

\*1 BC-147SA for 120V AC. BC-147SE for 230V AC. BC-147SV for 240V AC.  
\*2 BC-123SA for 120V AC. BC-145SE for 230V AC. BC-145SV for 240V AC. BC-145SUK for 230V UK plug.



**BC-162 DESKTOP CHARGER + BC-145/BC-123\*<sup>2</sup> 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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