

ICOM

VHF MARINE TRANSCEIVER

IC-M23

# FLOAT'N FLASH



Icom pioneered the floating VHF marine radio, and others followed. Setting a new trend yet again, the IC-M23 floats and lets you know where it is with the flashing feature. The radio flashes in the water, even when the power is off! It is smaller and lighter than any other buoyant marine handheld too.



## FEATURES

### Float'n flash\*

With its innovative flashing red LED light, an overboard IC-M23 is easy to find, day or night. The light flashes even if the radio is turned off.

\* US patent pending.

### Smallest and lightest in the world

As a buoyant VHF marine transceiver, the IC-M23 has the smallest and lightest body in the world.\* \* As of February, 2011, researched by Icom.

### Energy-saving 3.7V circuitry\*

The IC-M23 is powered by the 3.7V Lithium-Ion battery pack, BP-266, to reduce the capacity and weight of the radio. A newly developed PA circuit provides 5W (approx.) RF output and powerful 600mW (typ.) audio even at this low

voltage, while saving battery consumption for 10 hours of operating time.\*

\* Typical operation with Tx (Hi): Rx: standby=5:5:90. US patent pending.

### Easy to see large LCD

The large, easy to see LCD (32×16 mm) offers a clear 2-digit channel number indication.



### Built-in regular charger circuitry

Recharge the IC-M23 by plugging the wall charger directly in to the radio. By eliminating exposed metal charging points, the IC-M23 is even more protected from water damage.

### Volume loud and mute functions

The volume loud/mute functions temporarily change the volume to the maximum/minimum level with two touches of a button. Depending on the background noise level, you can easily change the volume level to capture the received message.

### Other features

- Waterproof construction equivalent to IPX7 (1m depth for 30 minutes)
- Dual/Tri-watch functions • Auto scan function
- One-touch access to Ch 16
- 4-step battery life indicator
- Tag scan and Favorite channel functions
- LCD and keypad back lighting
- AquaQuake™ draining function

## SPECIFICATIONS

### GENERAL

- Frequency range : TX 156.000–161.450MHz, RX 156.000–163.425MHz
- Usable channel groups : INT, USA\* channels; 70 programmable channels (\* Depending on version)
- Type of emission : 16K0G3E (FM)
- Current drain (at 3.7V DC) : Tx High 2.3A, AF max. 350mA typ., Power save 8mA typ.
- Operating temp. range : -15°C to +55°C
- Antenna impedance : 50Ω (Stud)
- Dimensions (W×H×D) (projections not included) : 58.5×128.5×34.5 mm
- Weight (approx.) : 260g (With BP-266, FA-SC58V, MB-124)

### TRANSMITTER

- Output power (Hi/Low) : 5W/1W approx. (\* German version 1W/0.5W typ.)
- Max. frequency deviation : ±5.0kHz
- Frequency stability : ±1.5kHz
- Spurious emissions : 0.25μW
- Adjacent channel power : 70dB
- Audio harmonic distortion : Less than 10% (at 60% dev.)
- Residual modulation : 40dB

### RECEIVER

- Sensitivity (20dB SINAD) : -4dBμ 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 : 200mW (at 10% distortion, 8Ω load)

### Applicable IP Rating and environmental test

Ingress Protection Standard	
Waterproof	IPX7 (Waterproof protection)
Environmental Test Standard	
Vibration	IEC60945

### Supplied accessories:



- Wall charger, BC-199S\*
  - Belt clip, MB-124
  - Hand strap
  - Battery pack, BP-266
  - Antenna, FA-SC58V
- (\* Not supplied depending on version.)

Measurements made in accordance with EN 301 178-2. All stated specifications are subject to change without notice or obligation.

## OPTIONS

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

### Li-Ion battery pack



BP-266 3.7V, 1500/1590 mAh (min./typ.)

### WALL CHARGER



BC-199S\* Charges BP-266 in 8.5 hours (approx.).

### RAPID DESKTOP CHARGER



BC-145S\* BC-119N+AD-123\* Charges BP-266 in 2.5 hours. (approx.).

### CIGARETTE LIGHTER CABLE with built-in DC-DC converter



CP-24

### BELT CLIP



MB-124

### ANTENNA



FA-SC58V

\* BC-199SA/BC-145SA for 120V AC. SE for 230V AC. SV for 240V AC. BP-266 must be removed from the radio for charging in the BC-119N.

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