



VHF MARINE TRANSCEIVER with DSC

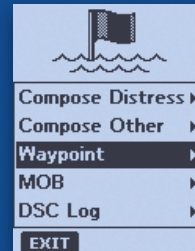
# IC-M93D

## World's Slimmest Floating DSC Radio



### 2.3" Large High Visibility LCD

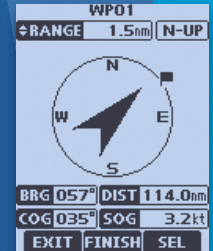
2.3" large, high contrast and full dot-matrix LCD ensures good readability under direct sunlight. Large compass screens and large character size provide at-a-glance information.



Menu screen



Pop-up window for position check



Navigation screen



### Slimmest\* Floating DSC Radio

By adopting a flat sheet keypad, at 38.5mm (1.52in) the IC-M93D is the slimmest floating DSC handheld radio in the world. Fits comfortably in your palm for ease of use.

\* As of June 2016, researched by Icom.



### Intuitive User Interface

For an operator not familiar with DSC radio operation, the combination of the four directional keypad and soft keys provides straight-forward operation of all functions.



### Built-in Class D DSC with a CH70 Receiver

A dedicated DSC receiver continuously monitors CH70. Distress calls can be made with the rear panel button.



Distress button



### Float'n Flash and MOB Auto Set Function

The IC-M93D floats and flashes on the water. Pressing the distress button while Float'n Flash is working will transmit the MOB distress signal, rather than the plain undesignated one for better protection of sailors.



INTEGRATED GNS RECEIVER



ACTIVE NOISE CANCEL

## Integrated GNSS Receiver

The integrated GNSS receiver provides your location, bearing and speed with fast-setup time and pinpoint accuracy by using information from GPS, GLONASS, QZSS and SBAS.

## Active Noise Cancelling

Active Noise Cancelling digitally removes background noise from both transmit and receive audio and provides clear communication in a noisy maritime environment.

## Comes with Rapid Charger, BC-220

The supplied rapid charger, BC-220, charges the BP-285 in 2.5 hours (approx). The cigarette lighter cable, CP-25H, is also supplied.

## Other Features

- IPX7 submersible (1m depth of water for 30 minutes)
- Navigation function from current position to the specified waypoint
- 50 waypoint memories with alphanumeric name for navigation
- Weather channel receive with weather alert function
- Dual/Tri-watch function for monitoring CH16 and/or call channel
- Battery indicator shows remaining battery power in four levels
- Favorite channel function for quick access to often used channels
- AquaQuake™ draining function clears water away from the speaker grill
- Support new VHF marine channel plan effective from January 1st, 2017
- When the HM-165 is connected to the IC-M93D, the HM-165 and the radio floats on the water

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


**RECHARGEABLE Li-ion BATTERY PACK**



**BP-285**  
Li-ion 7.2V,  
1485mAh (min.)  
1570mAh (typ.)

Provides 9 hours\* of operating time.  
\* Typical operation with 5:5:90 (Power save: ON, while valid GNSS data is received.)


**RAPID CHARGER**



**BC-123SA/SE\*** **BC-220**

Charges the BP-285 in 2.5 hours (approx.). \* May differ depending on version. Photo shows BC-123SA.

**MULTI-CHARGER**



**BC-214**

Charges up to six BP-285 in 3 hours (approximately).

**SPEAKER-MICROPHONES**



**HM-228**  
IPX7 compact type.

**HM-165**  
IPX7 rugged type.

**LEATHER BELT HANGERS**



**MB-96FL**  
Long fixed type.

**MB-96F**  
Fixed type.

**CIGARETTE LIGHTER CABLE**



**CP-25H**  
For use with BC-220.

**ANTENNA FA-SC59V**  
Same as supplied.

**BELT CLIP MB-133**  
Same as supplied.

**CHARGER ADAPTER AD-133**  
Supplied with the BC-214, depending on version.

## SPECIFICATIONS

GENERAL		
Frequency range	Tx Rx Rx (CH70)	156.025–157.425MHz 156.050–163.275MHz 156.525MHz
Usable channel groups		INT, USA, CAN, WX channels
Type of emission		16K0G3E (FM), 16K0G2B (DSC)
Current drain (at 7.2V DC)	Tx (5.0W/1.0W output) Rx (Inter SP/Exter SP Max. audio)	1.5A/700mA (approx.) 450mA/250mA (approx.)
Operating temperature range		–20°C to +60°C; –4°F to +140°F
Antenna impedance		50Ω
Dimensions (W×H×D) (projections not included)		57.0×144.6×38.5mm; 2.24×5.69×1.52in
Weight (approximately)		300g ; 10.58oz (With BP-285, FA-SC59V, MB-133)
TRANSMITTER		
Output power (Hi/Low)		5W/1W
Max. frequency deviation		±5kHz
Frequency stability		±10ppm
Spurious emissions		–68dBc typical
RECEIVER		
Sensitivity (at 12dB SINAD)		0.25μV typical
DSC receiver (at 1% BER)		–5dBμ emf typical
Squelch sensitivity (Threshold)		0.25μV typical
Adjacent channel selectivity		70dB typical
DSC receiver (at 1% BER)		73dBμ emf typical
Spurious response		70dB typical
DSC receiver (at 1% BER)		73dBμ emf typical
Intermodulation		70dB typical
DSC receiver (at 1% BER)		68dBμ emf typical
Hum and noise		40dB
Audio output power	Internal SP (at 10% distortion)	900mW typical (12Ω load) 350mW typical (8Ω load)
	External SP	

Measurements made in accordance with TIA/EIA-603 and IEC 62238. All stated specifications are subject to change without notice or obligation.

### Applicable U.S. Military Specifications & IP Rating

Standard	MIL 810G	
	Method	Procedure
Low Pressure	500.5	I, II
High Temperature	501.5	I, II
Low Temperature	502.5	I, II
Temperature Shock	503.5	I-C
Solar Radiation	505.5	I
Rain Blowing/Drip	506.5	I, III
Humidity	507.5	II
Salt Fog	509.5	–
Dust Blowing	510.5	I
Immersion	512.5	I
Vibration	514.6	I
Shock	516.6	I, IV

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

Ingress Protection Standard	
Water	IPX7 (Waterproof protection)

### Supplied accessories:

- AC adapter, BC-123SA/SE\*
- Belt clip, MB-133
- Battery charger, BC-220
- Antenna, FA-SC59V
- Battery pack, BP-285
- Hand strap
- Cigarette lighter cable, CP-25H
- May differ depending on version.

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