



VHF MARINE TRANSCEIVER with DSC

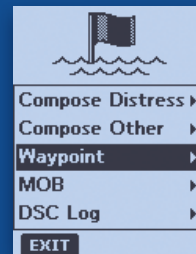
# IC-M93D EURO

## World's Slimmest Buoyant DSC Radio



### 2.3" Large High Visibility LCD

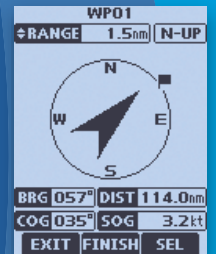
2.3" large, high contrast and full dot-matrix LCD ensures good readability under direct sunlight. Large compass screens and large character size provide at-a-glance information.



Menu screen



Pop-up window for position check



Navigation screen



### Slimmest\* Buoyant DSC Radio

By adopting a flat sheet keypad, at 38.5mm the IC-M93D EURO is the slimmest buoyant 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 EURO 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 GNSS 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 (approximately).

## 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
- 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 speaker grill
- Support new VHF marine channel plan effective from January 1st, 2017
- When the HM-165 is connected to the IC-M93D EURO, 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-123SE/SUK\*** **BC-220**

Charges the BP-285 in 2.5 hours (approx.). \* SE is for EURO plug, SUK is for UK plug. Photo shows BC-123SE.

**MULTI-CHARGER**



**BC-214** **BC-157S**

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 Tx (HOL ver.) Rx Rx (CH70)	156.000-161.450MHz 156.000-161.600MHz 156.000-163.425MHz 156.525MHz
Usable channel groups		INT, USA*, ATIS* channels * Available depending on version
Type of emission		16K0G3E (FM), 16K0G2B (DSC)
Current drain (at 7.2V DC)		(approximately)
Tx (5.0W output) (1.0W output)		1.5A 700mA
Rx (Internal SP, Max. audio) (External SP, Max. audio)		450mA 250mA
Operating temperature range		-15°C to +55°C
Antenna impedance		50Ω
Dimensions (W×H×D) (projections not included)		57.0×144.6×38.5mm
Weight (approximately)		300g (With BP-285, FA-SC59V, MB-133)

TRANSMITTER	
Output power (Hi/Low)	5W/1W
Max. frequency deviation	±5kHz
Frequency stability	±1.5kHz
Spurious emissions	0.25 μW

RECEIVER	
Sensitivity (at 20dB SINAD)	-6dBμ emf typical
DSC receiver (at 1% BER)	-5dBμ emf typical
Squelch sensitivity (Threshold)	-6dBμ emf typical
Adjacent channel selectivity	70dB
DSC receiver (at 1% BER)	73dBμ emf typical
Spurious response	70dB
DSC receiver (at 1% BER)	73dBμ emf typical
Intermodulation	68dB
DSC receiver (at 1% BER)	68dBμ emf typical
Hum and noise	40dB
Audio output power	Internal SP 900mW typical (12Ω load at 1kHz) (at 10% distortion) External SP 200mW (8Ω load)

Measurements made in accordance with EN302-885-1 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-123SE/SUK\*
- Battery charger, BC-220
- Battery pack, BP-285
- Belt clip, MB-133
- Antenna, FA-SC59V
- Hand strap
- May differ depending on version.

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