



# IC-M803

MF/HF MARINE TRANSCEIVER

**Long Range Communications  
Beyond the Horizon**



# Class E DSC MF/HF SSB Radio with

## Distress Button for Emergency

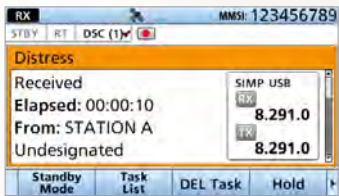
If in an emergency situation, press the large independent Distress button to send an automated digital Distress signal. The digital distress signal with GPS coordinates calls for help from other ships or coast stations.



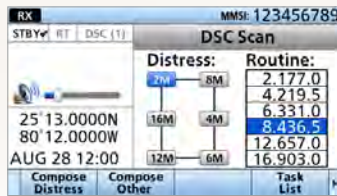
Distress button with a spring-loaded cover

## Built-in DSC Watch-Keeping Receiver with the Multiple Task Mode

The dedicated DSC watch-keeping receiver continuously scans the six distress channels in rotation. A total of 100 MMSI numbers (75 Individual and 25 Group) for DSC calls can be stored with a 10-character ID name. When you receive a DSC call, while you are in process with another DSC call, the IC-M803 can hold both DSC procedures to switch between the DSC calls with the Multiple Task Mode function.



Example of received Distress screen



DSC Scan screen

## Intuitive User Interface

A combination of the large main dial and software keys at the bottom of the display, provides simple operation and easy access to often used functions. You can smoothly enter channel numbers, MMSI numbers, vessel names with the alpha-numeric keypad. In addition, one of software key functions can be assigned to the microphone's programmable button for quick access.



## 4.3 inch Wide Viewing Angle Color TFT Display

The 4.3 inch color TFT display provides an almost 180 degree very wide viewing angle and displays high resolution characters and function icons. You can clearly see the display information from various viewing angles. So the radio can be installed without choosing the installation place. The night mode display ensures good readability in low light conditions.



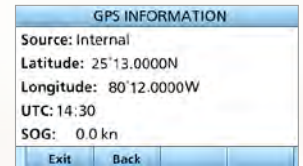
Night mode screen



Menu screen

## Integrated GPS Receiver

The GPS receiver which includes GPS, GLONASS and SBAS function, is integrated into the IC-M803. Your position data, course, speed and UTC data can be received with a simple connection to the supplied GPS antenna. The position data can be output from the NMEA 0183 port for use with other devices.



GPS Information screen

# Color TFT Display

## Two Minutes Instant Replay Memory

The Instant Replay function automatically saves the received audio. You can replay the received audio, and not miss any incoming calls.

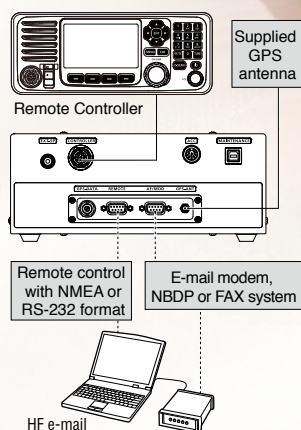
## Advanced RF Direct Sampling System

The latest digital signal processing system is employed to the IC-M803. The system totally improves receiver sensitivity, and audio clarity over conventional radio systems.

## Ready for HF E-mail Operation

The IC-M803 can be set to memorize your HF e-mail access frequency, mode and bandwidth setting into the e-mail channels. Up to 160 e-mail frequency channels, and connection terminals for a PC and e-mail modem are available.

\*Please consult with an HF e-mail provider for details.



## And more

- 150 W (PEP) of powerful RF output
- Optional AT-140 automatic antenna tuner
- IPX7 waterproof remote controller
- 0.5–29.999 MHz continuous receiver coverage
- NMEA 0183 Version 4.10 data input/output (4800–38400 bps)

## MF/HF MARINE TRANSCEIVER IC-M803



## SPECIFICATIONS

| GENERAL                               |            |                                                                                                                          |
|---------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------|
| Frequency coverage                    | Receive    | 500 kHz–29.9999 MHz (Continuous)                                                                                         |
|                                       | Transmit   | 1.6–2.9999, 4.0–4.9999, 6.0–6.9999, 8.0–8.9999, 12.0–13.9999, 16.0–17.9999, 18.0–19.9999, 22.0–22.9999, 25.0–27.5000 MHz |
|                                       | DSC        | 2.1875, 4.2075, 6.3120, 8.4145, 12.5770, 16.8045 MHz                                                                     |
| Mode                                  | TX/RX      | J3E (USB, LSB), J2B (AFSK), F1B (FSK), A1A (CW), H3E* (AM) (* H3E receive only)                                          |
|                                       | DSC        | J2B                                                                                                                      |
| Antenna impedance                     |            | 50 Ω (unbalanced)                                                                                                        |
| Usable temperature range              |            | –20°C to +55°C, –4°F to +131°F                                                                                           |
| Frequency stability                   | TX/RX      | ±10 Hz (below 29.999 MHz)                                                                                                |
|                                       | DSC        | ±10 Hz                                                                                                                   |
| Power supply requirement              |            | 13.6 V DC ±15% (Negative ground)                                                                                         |
| Current drain (at 13.6 V DC)          | Receive    | Less than 3.0 A (Maximum audio output)                                                                                   |
|                                       | Transmit   | 30 A (Maximum output power)                                                                                              |
| Dimensions (Projections not included) | Main unit  | 240 × 94 × 238 mm, 9.4 × 3.7 × 9.4 in (W × H × D)                                                                        |
|                                       | Controller | 274 × 114 × 86 mm, 10.8 × 4.5 × 3.4 in (W × H × D)                                                                       |
| Weight                                | Main unit  | 4.41 kg, 9.7 lb (approximate)                                                                                            |
|                                       | Controller | 760 g, 1.7 lb (approximate)                                                                                              |

| TRANSMITTER                   |                                                           |
|-------------------------------|-----------------------------------------------------------|
| Output power                  | 150, 100, 60, 20 W PEP (selectable)                       |
| Spurious emissions            | Less than –62 dB (Peak output power)                      |
| Carrier suppression           | More than 40 dB (Peak output power)                       |
| Unwanted sideband suppression | More than 55 dB (Peak output power with 1500 Hz AF Input) |
| Microphone impedance          | 600 Ω                                                     |

| RECEIVER    |                 |                |              |
|-------------|-----------------|----------------|--------------|
| Sensitivity |                 | at 20 dB SINAD | at 10 dB S/N |
| J3E, A1A    | 0.5–1.5999 MHz  | 30 dBμV emf    | 16 dBμV      |
|             | 1.6–1.7999 MHz  | 13 dBμV emf    | –1 dBμV      |
|             | 1.8–29.9999 MHz | 8 dBμV emf     | –6 dBμV      |
| J2B, F1B    | 1.6–1.7999 MHz  | 4 dBμV emf     | –10 dBμV     |
|             | 1.8–29.9999 MHz | –1 dBμV emf    | –15 dBμV     |
|             | 0.5–1.5999 MHz  | 44 dBμV emf    | 30 dBμV      |
| H3E         | 1.6–1.7999 MHz  | 30 dBμV emf    | 16 dBμV      |
|             | 1.8–3.9999 MHz  | 24 dBμV emf    | 10 dBμV      |

|                        |       |                                                                                 |
|------------------------|-------|---------------------------------------------------------------------------------|
| DSC Sensitivity (J2B)  |       | 6 dBμV emf (at 20 dB SINAD)<br>–8 dBμV (at 10dB S/N)<br>–6 dBμV emf (at 1% BER) |
| Spurious response      | TX/RX | More than 70 dB (0.5–29.9999 MHz)                                               |
|                        | DSC   | More than 70 dB                                                                 |
| Audio output power     |       | 4.0 W at 10% distortion with a 4 Ω load                                         |
| Clarity variable range |       | ±150 Hz                                                                         |

All stated specifications are subject to change without notice or obligation.

## Applicable IP Rating

## Ingress Protection Standard

|                   |                                       |
|-------------------|---------------------------------------|
| Remote controller | IPX7 (1 m depth water for 30 minutes) |
|-------------------|---------------------------------------|

## Supplied accessories:

- Remote controller
- Remote control cable (5 m, 16.4 ft)
- Microphone, HM-214H
- DC power cable
- GPS antenna (5 m, 16.4 ft cable)
- Microphone hanger
- Mounting bracket kits
- ACC plugs
- Spare fuses

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with Integrated AIS Receiver

VHF MARINE TRANSCEIVER

IC-M605

The IC-M803 is designed to be a companion to our VHF transceiver IC-M605.

The front panel layout, color TFT display and user interface are similar to each other. Take advantages of the shared functionality to complete your communications needs.



## OPTIONAL ACCESSORIES

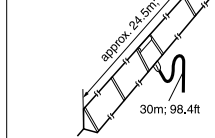
**AT-140**  
AUTOMATIC ANTENNA  
TUNER



**OPC-1465** SHIELDED  
CONTROL CABLE  
for AT-140 (10 m, 32.8 ft)



**AH-710**  
FOLDED DIPOLE  
ANTENNA



**MN-100**  
ANTENNA MATCHER  
(8 m, 26.2 ft x 2 antenna wires)



**MN-100L**  
ANTENNA MATCHER  
(15 m, 49.2 ft x 1 antenna wire)



**HM-214H**  
HAND  
MICROPHONE  
(Same as supplied)



**SP-24**  
EXTERNAL SPEAKER



**MB-75**  
FLUSH MOUNT KIT

