

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), J2B (AFSK), F1B (FSK) |
| | RX only | J3E (LSB), A1A (CW), H3E (AM) |
| | 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 | | 10.8–15.6 V (12 V DC), 21.6–31.2 V (24 V DC) (negative ground) |
| Current drain | Receive | Less than 6 A (12 V)/3 A (24 V) (Max. audio output) |
| | Transmit | Less than 40 A (12 V)/20 A (24 V) (Max. output power) (with 1.1 kHz and 1.7 kHz AF input) |
| Usable temperature range | | –15 °C to 55 °C |
| Dimensions (Projections not included) | Main unit | 367 (W) × 95 (H) × 260 (D) mm |
| | Controller | 274 (W) × 114 (H) × 86 (D) mm |
| Weight | Main unit | 8.6 kg (approximate) |
| | Controller | 760 g (approximate) |

| TRANSMITTER | | |
|--------------------------------|-----------------|--|
| Output power (at Tuner output) | 1.6–3.9999 MHz | 85 W pep |
| | 4.0–27.5000 MHz | 125 W pep |
| Spurious emissions | | Less than 50 dB peak output power (at Max. Power) |
| Carrier suppression | | More than 40 dB peak output power (at Max. Power) |
| Unwanted sideband suppression | | More than 55 dB peak output power (at Max power with 1500 Hz AF input) |

| RECEIVER | | | |
|-----------------------------|---------------------|---------------------------------------|------------------------|
| Sensitivity | | | |
| J3E, A1A | 0.5–1.5999 MHz | 30 dBμV emf (20 dB SINAD) | |
| | 1.6–29.9999 MHz | 8 dBμV emf (20 dB SINAD) | |
| J2B, F1B | 1.6–29.9999 MHz | 0 dBμV emf (1% error rate) | |
| H3E | 0.5–1.5999 MHz | 44 dBμV emf (20 dB SINAD) | |
| | 1.6–3.9999 MHz | 24 dBμV emf (20 dB SINAD) | |
| DSC Sensitivity (J2B) | | 0 dBμV emf (1% error rate) | |
| Squelch sensitivity | | (Threshold) | (Tight) |
| | J3E (at 12.230 MHz) | Less than 26 dBμV emf | Less than 96 dBμV emf |
| | H3E (at 1.000 MHz) | Less than 36 dBμV emf | Less than 116 dBμV emf |
| Spurious response rejection | J3E | More than 60 dB (1.6 – 29.9999 MHz) | |
| | DSC (J2B) | More than 90 dBμV emf | |
| Audio output power | | 4.0 W at 10% distortion with 4 Ω load | |
| Clarity variable range | | ±150 Hz | |

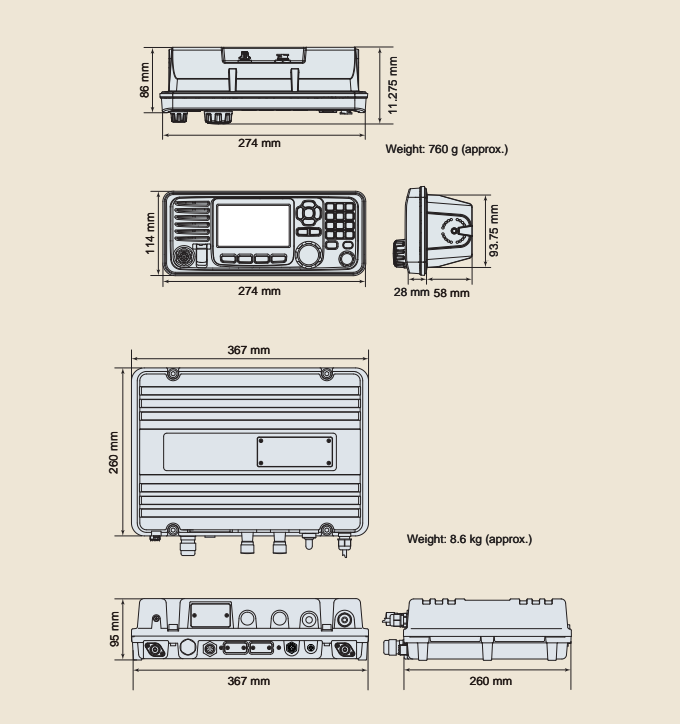
All stated specifications are subject to change without notice or obligation.

Applicable IP Rating

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

| | |
|--|-------------------------------------|
| Supplied accessories: | |
| • Hand microphone | • DC power cable |
| • Remote controller and control cable | • GNSS antenna |
| • Mounting bracket kit for the remote controller | • Mounting plates for the main unit |

DIMENSIONS



OPTIONAL ACCESSORIES

AT-141
AUTOMATIC
ANTENNA TUNER

OPC-1465 SHIELDED
CONTROL CABLE
for AT-141 (10 m)

HM-214H
HAND
MICROPHONE
(Same as supplied)

Waterproof

SP-24E
EXTERNAL SPEAKER

HS-98
HANDSET

MB-108
MOUNTING BRACKET

Photo shows installation example.

MB-75
FLUSH MOUNT KIT

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Icom Inc. 1-1-32, Kamiminami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

www.icomjapan.com

Count on us!

Your local distributor/dealer:

ADVANTEC
Advantec Srl
Via Caduti per la Libertà, 13
10060 Pinasca TO - Italy
Tel. +39 0121326770
info@advantec.it - www.advantec.it



IC-M804

MF/HF MARINE TRANSCEIVER

Long Range Communications
Beyond the Horizon



Class E DSC MF/HF SSB Radio with Colour TFT Display

Distress Button for Emergency

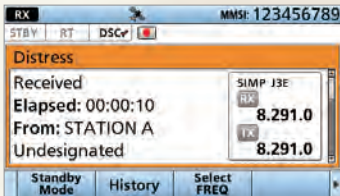
The IC-M804 meets the ITU-R M.493-15 Class E DSC. If in an emergency, press the large independent Distress button to send an automated digital Distress signal. The digital Distress signal with GNSS coordinates calls for help from other ships or coast stations.



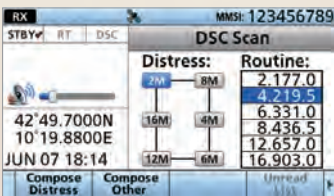
Distress button with a spring-loaded cover

Built-in DSC Watch-Keeping Receiver

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.



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.

4.3 inch Wide Viewing Angle Colour TFT Display

The 4.3 inch colour 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. The night mode display ensures good readability in low light conditions.



Night mode screen



Menu screen

NMEA 2000™, NMEA 0183/-HS Connectivity

Using NMEA 2000™ connectivity, the IC-M804 can exchange GNSS, DSC call information, radio information and PGN list data on the network. NMEA 0183/-HS GNSS position data can also be converted to NMEA 2000™ data for other equipment.

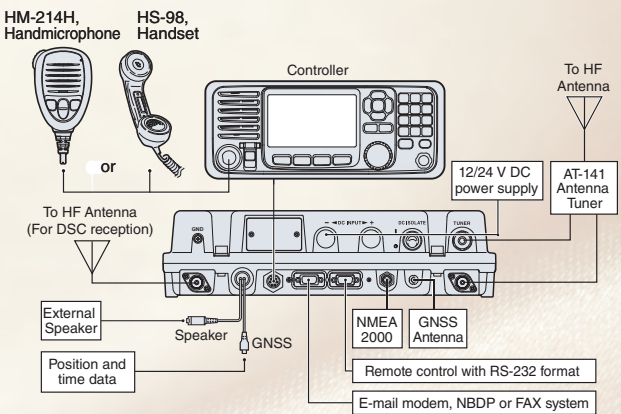
Two Minutes Voice Recorder Memory

The Voice Recorder function automatically records the last 2 minutes of receiving audio. You can playback the received audio that you could not hear clearly, and will not miss any incoming call.

Ready for HF E-mail Operation

The IC-M804 can be set to memorize your HF e-mail access frequency, mode and filter settings into the e-mail channels, and can be selected with a simple operation. 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.



Optional Automatic Antenna Tuner, AT-141

The optional AT-141, automatic antenna tuner matches all marine bands with a wire antenna. If the tuner cannot tune the antenna, the IC-M804 bypasses the tuner and displays an alert on the display.

Meets Strict Environmental Requirements

The IC-M804 has passed rigorous environmental testing and quality assurance processes. It is designed to provide reliable operation and corrosion resistant durability under harsh maritime environments. In fact, the controller has IPX7 protection (1 m depth of water for 30 minutes).

And More

- 125 W (PEP) of RF output at AT-141 output power
- 0.5–29.999 MHz continuous receiver coverage
- Advanced RF direct sampling system employed
- Integrated GNSS receiver and supplied 5 m cable GNSS antenna
- Microphone's programmable button for quick function access

MF/HF MARINE TRANSCEIVER

IC-M804



Complete set with main unit and optional AT-141 antenna tuner



IC-M804 controller (Night mode screen)