

ICOM

MF/HF MARINE TRANSCEIVER

# IC-M710



**Simple, dependable worldwide communications at an affordable price.**

#### **1136 channels**

160 user-programmable, 242 ITU SSB duplex, 72 ITU SSB simplex and 662 ITU FSK duplex channels are available.

#### **Rugged construction**

The highest quality components are used throughout. Constructed in a die-cast aluminum chassis with surface mount components, the IC-M710 is designed for long hours of operation in the harsh marine environment.

#### **Alphanumeric readout**

The large, easy-to-read display shows status at a glance. Seven characters can be programmed into each memory channel to conveniently display station names, ship names, etc.

#### **150 W of output power**

A full 150 W (PEP) of output power is available for reliable long distance communication. A large cooling fan, in combination with the aluminum chassis, allows continuous transmission at full output power—even during demanding RTTY (radio teletype) and NBDP (narrow band direct printing) operation.

#### **Automatic tuning function**

An automatic tuning function is available when using the IC-M710 in combination with the optional AT-130/E for quick and easy antenna tuning. Tuning is fully automatic. When you push the PTT on a new frequency, the antenna tuner quickly tunes the antenna automatically.

#### **Easy to use**

Two large memory and frequency dials allow quick and easy operation.

#### **GMDSS versions available**

Versions which comply with GMDSS requirements are available. With the addition of an IC-GM110 DSC terminal the radio meets DSC class A requirements.

#### **And more...**

- Covers all allowed bands between 1.6 and 27.5 MHz
- General coverage receiver
- Modes: SSB, RTTY, CW and AM
- 2182 kHz alarm built-in (optional for General versions)
- RF gain control
- Audio activated squelch
- Terminals for frequency/mode control via NMEA interfacing
- Direct keypad channel selection entry
- Large, front-mounted speaker
- Weather fax ready
- Backlight control
- CW full break-in and semi break-in

**Icom Inc.**

## SPECIFICATIONS

## GENERAL

- Frequency coverage : Receive 500 kHz–29.999 MHz  
Transmit\* 1.6–27.5 MHz  
\*Restrictions may apply depending on version.
- Mode : J3E (USB), H3E, J2B (AFSK), F1B (FSK), R3E, A1A (CW)  
(available modes may differ depending on version)
- Number of channels : 1136 (max.)  
(160 user-programmable; 242 ITU SSB duplex; 72 ITU SSB simplex; 662 ITU FSK duplex)
- Antenna impedance : 50  $\Omega$  (nominal)
- Useable temperature range : -30 to +60°C (-22 to +140°F)
- Frequency stability :  $\pm 10$  Hz (-30 to +60°C; -22 to +140°F);  $\pm 20$  Hz above 15 MHz for General and Marine versions)
- Power supply requirement : 13.6 V DC  $\pm 15\%$   
(negative and floating grounds are available depending on version)
- Current drain (at 13.6 V DC) :

Transmit (max. output power)	30 A
Receive (max. audio output)	2.5 A (negative ground type)
	3 A (floating ground type)

- Dimensions : 291.4 (W) x 116.4 (H) x 315 (D) mm  
(projections not included)  
11<sup>1</sup>/<sub>2</sub> (W) x 4<sup>1</sup>/<sub>2</sub> (H) x 12<sup>3</sup>/<sub>2</sub> (D) in
- Weight : 7.9 kg; 17 lb 7 oz (negative ground type)  
8.1 kg; 17 lb 14 oz (floating ground type)

## TRANSMITTER

- Output power :  
(U.S.A. versions) 150, 60, 20 W PEP (selectable)  
(80, 20 W only for 25 MHz band)  
(Europe versions) 150, 60, W PEP (selectable)  
(60 W only for 25 MHz band)
- Spurious emissions : -65 dB (U.S.A. versions)  
-60 dB (Europe versions)
- Carrier suppression : 40 dB
- Unwanted sideband suppression : 55 dB
- Microphone impedance : 600  $\Omega$

## RECEIVER

- Sensitivity :  
J3E, R3E, J2B, F1B, A1A : 0.5  $\mu$ V (1.8–29.999 MHz)  
1  $\mu$ V (1.6–1.7999 MHz)  
6.3  $\mu$ V (0.5–1.5999 MHz)  
H3E : 3.2  $\mu$ V (1.8–29.999 MHz)  
6.3  $\mu$ V (1.6–1.7999 MHz)  
32  $\mu$ V (0.5–1.5999 MHz)  
(10 dB S/N)
- Spurious rejection ratio : 70 dB (1.6–29.999 MHz)
- Audio output power : 4.5 W at 10% distortion with a 4  $\Omega$  load
- Audio impedance : 4 to 8  $\Omega$
- Clarity variable range :  $\pm 150$  Hz

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

## OPTIONS

## GM-110DSC DSC TERMINAL UNIT



6 channel emergency scanning receiver —contains remote control capability of the IC-M710 GMDSS for distress calls, etc.

## AT-130/E HF AUTOMATIC ANTENNA TUNER



Matches the transceiver to a long wire antenna with little insertion loss.

## MN-100/MN-100L ANTENNA MATCHERS



Match the transceiver to a long wire antenna without applying DC power.

## HS-50 HANDSET



Provides clear audio reception and comes in handy for listening privacy.

## PS-60 DC POWER SUPPLY



Provides 13.6 V DC (30 A) output from an AC outlet.

## PS-66 DC-DC CONVERTER



Provides 13.6 V DC (30 A) output from 19–32 V DC.

## FL-100 CW/FSK NARROW FILTER (500 Hz–6 dB)



Have good shape factor to provide better CW/RTTY reception. A 350 Hz–6 dB NARROW FILTER is already built-in to the GMDSS versions.

## UT-95 2-TONE ALARM UNIT



Already built-in to the Marine and GMDSS versions.

Les spécifications et informations données dans ce document peuvent être modifiées sans préavis.

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