



VHF MARINE TRANSCEIVER

# IC-M304

**Submersible compact body  
with large LCD and powerful audio**



**FORCE5 AUDIO™**

**Submersible**  
1m depth for 30 minutes

## Compact and submersible

Equivalent to IPX7 (1m depth for 30 minutes, except cables).

## Large easy-to-see LCD

Shows full size channel number with 4-step backlighting.

## Built-in DSC

For distress calls, or for position request/position report.

## New Force5Audio™ speaker

Delivers impressive audio output with powerful bass.

## Favorite channel function

Offers quick channel selection from the microphone up/down buttons.

## AquaQuake draining function

The vibrating "buzz" sound clears water away from the speaker grill.

## Weather channel with weather alert

Listen for important weather broadcasts.

## Dualwatch and Tri-watch functions

Monitors Ch.16 and/or call channel, while using another channel.



## SPECIFICATIONS

## GENERAL

- Frequency range : Tx 156.025–157.425MHz  
Rx 156.050–163.275MHz
- Usable channels : USA, CAN, INT, WX channels
- Type of emission : 16K0G3E, 16K0G2B
- Power supply : 13.8V DC  $\pm$  15%
- Current drain : Tx 5.5A (at 25W output) (at 13.8V DC)  
Rx 1.5A (at AF max)
- Operating temperature range :  
–20°C to +60°C; –4°F to +140°F
- Antenna impedance: 50 $\Omega$  (SO-239)
- Dimensions (WxHxD, projections not included) :  
153x67x133mm; 6 $\frac{1}{32}$ x2 $\frac{5}{8}$ x5 $\frac{1}{4}$  in.
- Weight (approx.) : 825g; 1.8lb
- NMEA formats : NMEA version 2.0 or 3.01  
RMC, GGA, GNS, GLL

Measurements made in accordance with TIA/EIA 608. All stated specifications are subject to change without notice or obligation.

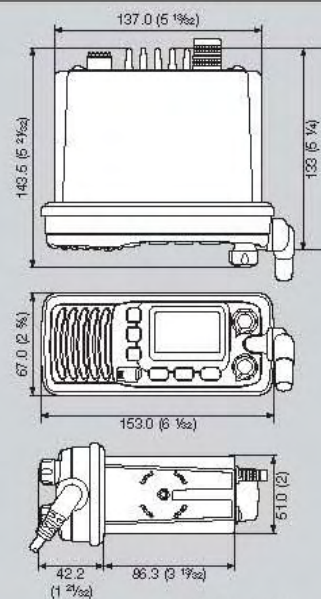
## TRANSMITTER

- Output power : 25W or 1W (at 13.8V DC)
- Modulation system: Variable reactance frequency modulation
- Max. freq. deviation:  $\pm$ 5kHz
- Frequency error :  $\pm$ 10ppm
- Spurious emissions: Less than –70dBc (at 25W)
- Adj. channel power: More than 70dB
- Audio harmonic distortion :  
Less than 10% (at 60% dev.)
- Residual modulation: More than 40dB

## RECEIVER

- Intermediate freq. : 1st 21.7MHz, 2nd 450kHz
- Sensitivity : 0.22 $\mu$ V typical at 12dB SINAD
- Squelch sensitivity: Less than 0.22 $\mu$ V
- Adj. Ch. selectivity: More than 70dB
- Spurious response: More than 70dB
- Intermodulation : More than 70dB
- Hum and noise : More than 40dB
- Audio output power: 4.5W typical at 10% distortion with a 4 $\Omega$  load

## DIMENSIONS



Unit: mm (inch)

## OPTIONS

- **HM-164B/1645W/164G** HAND MICROPHONE  
Black, super white and gray are available.  
Same as supplied.

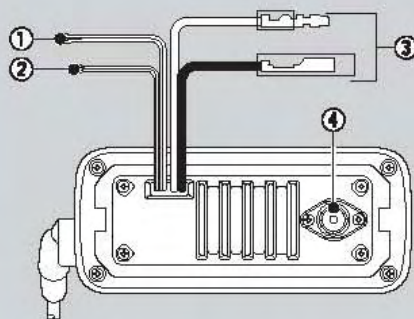
- **MB-69**  
FLUSH MOUNT KIT  
For flush-mounting the IC-M304 to a flat surface such as an instrument control panel.



- **MB-92** DUST COVER  
Protects the IC-M304 from dust and strong sunlight when the radio is not in use.



## REAR PANEL CONNECTIONS



- ① External speaker lead; (+): Blue, (–): Gray
- ② GPS receiver lead (NMEA IN);  
(+): Yellow, (–): Green
- ③ DC power connector; (+): Red, (–): Black
- ④ Antenna connector

## Color versions:

- Black
- Super white
- Gray

## Supplied accessories:

- Hand microphone
- DC power cable
- Mounting bracket kit

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