

IC-M601



Rugged
MIL-STD 810

Waterproof
1m depth for 30 minutes

High Performance, Full Function VHF Marine

Built-in ITU Class-D DSC

An independent receiver continuously watches Ch. 70, while using another channel. Further, a single antenna connector allows VHF and Ch. 70 operation, thus simplifying installation. The 10-key pad allows simple and efficient operation of the DSC emergency functions, vital for your safety at sea.

Superior receiver performance

The IC-M601 has excellent receive specifications of more than 75dB for spurious response and intermodulation rejection. With such high level performance, received calls are remarkably clear and free from noise. The powerful audio output from the front facing speaker further increases the clarity of received calls.

Simultaneous connection of two COMMANDMIC™s

The optional COMMANDMIC™ provides a 2nd and/or 3rd station capability and an intercom function. With slim dimensions and a sizable LCD, the COMMANDMIC™ offers the ease and convenience of operating the radio from remote locations such as the cockpit or tower up to a max. 21.3m* from the IC-M601.

* Requires use of optional OPC-999 extension cables.

NMEA Input/Output

When connected to a GPS receiver, the IC-M601 indicates position data in seconds of accuracy. NMEA output allows you to plot other ships position data on a PC or navigation equipment.

Large LCD with dot-matrix characters

The large dot-matrix display is designed for optimum readability in any lighting condition. With the extra large font, the channel number is maximized on the display, and other information can also be easily read.

22 Watt 2-way Hailer capability

When connected to a hailer horn, communication with other boats, Deck or Dock hands is easy. The built-in amplifier increases talk power to 22W making your message loud and clear. Quickly access the hailer via the generously-sized, backlit keypad.

Waterproof construction

The IC-M601 including the supplied/optional microphone has effective waterproof equivalent to JIS Grade 7*.

* Equivalent to JIS Grade 7 or IPX7 of the corresponding International Standard IEC 529 (1989). 1m depth for 30 minutes; except cables.

▲ Optional COMMANDMIC™, HM-134B

ADDITIONAL FEATURES

- Auto fog horn function with four selectable patterns
- Detachable water resistant 'Smart-speaker-microphone'
- Dual/tri-watch function
- Instant access to Ch. 16 and call channel
- 7 levels adjustable backlit display and keypad
- 4x8 inch flush mount design
- Convenient "TAG" scanning function with simple add/delete
- Optional Voice Scrambler, UT-112 for private communication

SPECIFICATIONS

GENERAL

- Frequency range : Tx 156.000–161.450MHz
Rx 156.000–163.425MHz
- Mode : 16K0G3E (FM)
16K0G2B (DSC)
- Usable channels : All International and U.S.A. channels*
(* Varies according to version.)
- Power supply requirement:
13.8V DC ±15%
- Current drain (at 13.8V DC):
Transmit 5.5A typ. (at 25W output)
Receive 1.5A typ. (at max. AF)
- Operating temp. range: -20°C to +60°C
- Antenna impedance : 50Ω (SO-239)
- Dimensions : 220(W)×110(H)×109.4(D) mm
(proj. not included)
- Weight (approx.) : 1.35kg

TRANSMITTER

- Output power : 25W or 1W (at 13.8V DC)
- Frequency error : ±0.3kHz
- Max. Freq. deviation: ±5.0kHz
- Spurious emissions : Less than 0.25μW
- Residual modulation: More than 40dB
- Audio harmonic distortion: Less than 10% (at 1kHz, 60% deviation)

RECEIVER

- Intermediate freq. : 1st 30.15MHz, 2nd 450kHz
Ch. 70 receiver 1st 21.70MHz, 2nd 450kHz
- Sensitivity : -5dBμ typ. (emf: at 20dB SINAD)
- Squelch sensitivity : -5dBμ typ. (emf)
- Adjacent channel : More than 75dB selectivity
- Spurious response : More than 75dB
- Intermodulation : More than 75dB
- Hum and noise : More than 45dB

- Audio output power : 2W
(at 10% distortion with a 4Ω load)
- GPS interface : NMEA0183 Ver. 2.0 or 3.01

Applicable U.S. Military Specifications

Standard	MIL 810 C		MIL 810 D		MIL 810 E		MIL 810 F	
	Method	Proc.	Method	Proc.	Method	Proc.	Method	Proc.
Low Pressure	500.1	I	500.2	I, II	500.3	I, II	500.4	I, II
High Temp.	501.1	I	501.2	I, II	501.3	I, II	501.4	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II	502.4-3	I, II
Temp. Shock	503.1	I	503.2	I	503.3	I	503.4	I
Solar Radiation	505.1	I	505.2	I	505.3	I	505.4	I
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III
Humidity	507.1	I, II	507.2	II, III	507.3	II, III	507.4	-
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	-
Dust	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII, X	514.3	I	514.4	I	514.5	I
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I, IV

Supplied accessories:

- Hand microphone
- DC power cable
- Mounting bracket kit

Measurements made in accordance with EN 301 025.

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

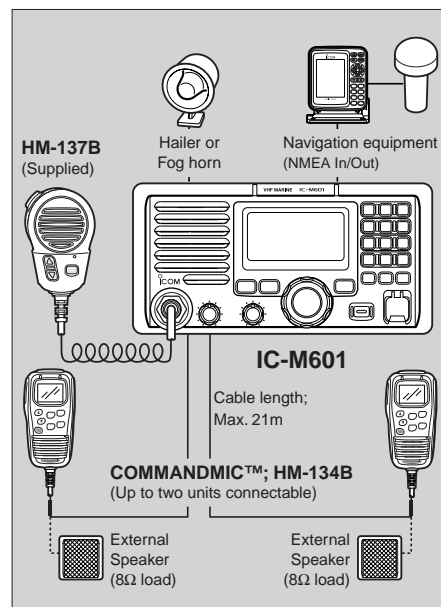
OPTIONS

- **MB-75 FLUSH MOUNT KIT**
For flush-mounting the IC-M601 to a flat surface such as a control panel.
- **HM-137B SMART-SPEAKER-MICROPHONE**
Detachable waterproof speaker microphone. Same as supplied.
- **UT-112 VOICE SCRAMBLER UNIT**
Enables private communication by scrambling your voice signal. Up to 32 scrambling codes are available. Not available in some countries.
- **OPC-999 EXTENSION CABLE FOR HM-134B**
6.1 m of extension cable for additional separation length when using the COMMANDMIC™.
- **HM-134B REMOTE-CONTROL MICROPHONE**
Up to 21.3m of freedom from the IC-M601 with two OPC-999, extension cables. Its sizable LCD offers ease and convenience of operation from remote locations. You can talk with the IC-M601 as an intercom. When connected to an external speaker, provides 2.0W of audio output power with an 8Ω load. DSC, hailer and fog horn operation are not possible.
Dimension (proj. not incl.) : 63.5(W)×125.0(H)×31.4(D)mm
Weight : 265g
Supplied accessories :
• Mounting base for cable connector
• OPC-1000 (6.1m cable) • Mic. hanger

COMMANDMIC is a trademark of Icom Inc.



SYSTEM OVERVIEW



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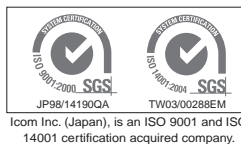
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