



IC-M604





Superior receiver performance



The IC-M604 has excellent receive specifications* which allow a weak signal a better chance of being heard when louder signals are around it. The powerful 5.0W (typical) audio output from the front facing speaker further increases the audibility and quality of received calls.

* More than 80dB for intermodulation rejection and adjacent channel selectivity, and 0.22µV (typical) high sensitivity.

Large LCD with dot-matrix characters

The large full 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 upper and lower case characters can be easily read.

--GPS Info-
DATE : AUG/01/2006

UTC : 12:00

POS : 27*25.299N

80*16.500W

COURSE: 261*M

SPEED : 18.5kt

▲ A GPS information example on 37×73mm (115/32×27/8 in) size display

30 Watt 2-way hailer capability

When connected to an external hailer horn, communication with other boats, deck or dock hands is easy. The built-in 30W amplifier increases your talk power making your message loud and clear. Four foghorn patterns are also available.

Submersible construction (1m depth for 30 minutes)

The IC-M604, including the supplied microphone, withstands submersion in up to 1.0m depth of water for 30 minutes. It is equivalent to IPX7 waterproofing.*

(* except cables)

Submersible 1m depth for 30 minutes



Built-in ITU Class-D DSC

No matter what channel you're tuned to, a separate and independent receiver inside the M604 continuously monitors Ch. 70.

DSC Built-in Class D

The 10-keypad allows simple and efficient operation of the DSC emergency functions, vital for your safety at sea.

Position request and position report

Over and above the DSC, your own and other ships' position data can be exchanged with the position request or position report functions. The received position information can be transferred to external GPS or navigation equipment*. In addition, the polling (request/reply) function checks whether a specific ship is within the communications range. * NMEA 0183 format is required.

Improved GPS information indication

When connecting to an external GPS receiver, the GPS information indication function shows course and speed data as well as position, date and time on the display.



Front and rear panel microphone connection

The speaker microphone can be detached from the front panel and can be connected to the rear panel without any modification. An optional 6.1m (20ft) microphone extension cable, OPC-1000, is available.



RX speaker function

The RX speaker function, "receiver-repeater" allows you to monitor the received radio audio from a hailer horn on the deck or tower. You can also make an announcement on-board from the microphone.



Favorite channel function

This function allows quicker channel selection. Set the "TAG" channel to the channels used most often. When pushing the up/down buttons on the speaker microphone, only tagged channels are selected and untagged channels are skipped. The "TAG" scanning function detects only tagged channels.

Other features

- Dual/tri-watch function for monitoring Ch.16 and/or call channel
- 7 levels adjustable backlit display and keypad
- Optional voice scrambler, UT-112 for private communication
- Weather channels with weather alert function
- AquaQuake draining function emits a vibrating sound and clears water away from the speaker grill

Up to two COMMANDMICIIIs™ can be connected

The optional COMMANDMICIII™ provides a 2nd and/or 3rd station capability to operate the IC-M604 from up to 18.3m* (60ft) away such as the cabin and/or fly bridge.

* Requires use of two optional OPC-1541 extension cables.

Full control and intercom capability

All functions of the IC-M604, including distress call, DSC, and hailer, are available. The intercom function allows you to talk with the IC-M604 or another COMMANDMIC. Remote power on/off function remotely turns on/off the IC-M604.

Multi-function rotary dial

A newly designed multi-function rotary dial gives you quick and easy access to many IC-M604 settings, including operating channel, volume, squelch, menu settings and more.

Other features

- Full dot-matrix LCD with 7-step dimmer setting
- 2.8W (typical) external speaker terminal
- Submersible PLUS waterproof (1.5m depth for 30 minutes)
- Extra large 45mm (d) speaker for superior audio



IC-M604

DIMENSIONS

SPECIFICATIONS

GENERAL

Frequency range

Tx 156.025-157.425MHz Rx 156.050-163.275MHz

 Type of emission : 16K0G3E, 16K0G2B : USA, INT, CAN, WX Usable channels

channels

• Power supply requirement:

13.8V DC ±15 %

• Current drain (at 13.8V DC) :

Transmit 5.5A (25W output) Receive 1.5A (Max. audio)

• Operating temperature : -20°C to +60°C ; -4°F to +140°F

 Antenna impedance : 50Ω (SO-239) • Dimensions (W×H×D) : 220×110×109.4 mm; (projections not included) 8²¹/₃₂×4¹¹/₃₂×4⁵/₁₆ in.

• Weight (approx.) : 1.4kg; 3.09 lb

NMEA formats

RMC, GGA, GNS, GLL, VTG Input

Output DSC. DSE

TRANSMITTER

: 25W or 1W (at 13.8V DC) Output power

 Modulation system : Variable reactance • Max. Freq. deviation : ±5.0kHz

• Frequency error : ±0.3kHz • Spurious emissions : Less than -70dBc Residual modulation : More than 40dB Adjacent Ch. power : More than 70dB

RECEIVER

· Intermediate freq. : 1st 30.15MHz

21.7MHz (Ch70)

2nd 450kHz

 Sensitivity : 0.22µV typ. (at 12dB SINAD) : Less than 0.32µV (threshold)

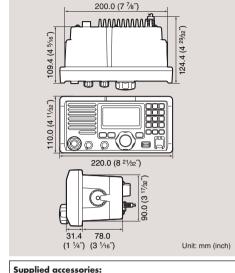
 Squelch sensitivity · Adjacent Ch. selectivity : More than 80dB Spurious response : More than 80dB Intermodulation : More than 80dB

 Hum and noise : More than 40dB

: 5.0W typ. at 10% distion Audio output power

with a 4Q load

Measurements made in accordance with TIA/EIA 603. All stated specifications are subject to change without notice or obligation.



Supplied accessories:

 Hand microphone Mounting bracket kit DC power cable

OPTIONS

Some options may not be available in some countries. Please ask your dealer for details.



HM-162B/SW REMOTE-CONTROL MICROPHONE Size (W×H×D): 65.5×150×38 mm; 219/32×529/32×11/2 in. Weight (approx.; except cables): 385g; 13.6oz Supplied accessories:

. 6.1m (20ft) of cable, OPC-1540, with external speaker Microphone hanger

· Mounting base for cable connector

OPC-1541 EXTENSION CABLE FOR HM-162B/SW 6.1m (20ft) extension cable for use with COMMAND-MICIII $^{\rm TM}.$ Up to 2 OPC-1541 can be connected.



MB-75 FLUSH MOUNT KIT

For flush-mounting the IC-M604 to a flat surface, such as a control panel.



UT-112 VOICE SCRAM-BLER LINIT

Provides up to 32 codes for private communication

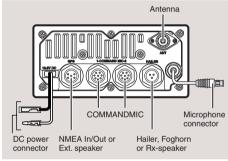
HM-126RB/RG SPEAKER MICROPHONE Same as supplied

OPC-1000 MICROPHONE EXTENSION CABLE 6.1m (20ft) extension cable with mounting base for use with rear panel microphone connection.

HM-157B/SW REMOTE-CONTROL MICROPHONE COMMANDMICII™ is also available.

OPC-999 EXTENSION CABLE FOR HM-157B/W 6.1m (20ft) of extension cable for use with COM-MANDMICII™. Up to 2 OPC-999 can be connected.

REAR PANEL VIEW



Applicable U.S. Military Specifications

IC-M604 and HM-162B/SW have been tested to and passed the following MIL-STD requirements and strict environmental standards.

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 Blowing	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

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