



IC-M604A





Superior receiver performance



The IC-M604A 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 (1.46×2.87 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-M604A, 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)

Built-in ITU Class-D DSC

The IC-M604A has two receivers, one for the radio and one to monitor channel 70 for DSC all the time. When a distress call is received, an escalating alarm sounds and

DSC Built-in Class D

the transceiver automatically switches to channel 16. The auto switch and auto tune timer functions allow you to control the timing to switch. Compliant to new DSC Class D regulations.

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.



Transparent installation image

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-M604A 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-M604A, including distress call, DSC, and hailer, are available. The intercom function allows you to talk with the IC-M604A or another COMMANDMIC. Remote power on/off function remotely turns on/off the IC-M604A.

Multi-function rotary dial

A newly designed multi-function rotary dial gives you quick and easy access to many IC-M604A 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-M604A

SPECIFICATIONS

GENERAL

Frequency range

Тx 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 range Antenna impedance : 50Ω (SO-239)

• Dimensions (W×H×D) : 220×110×109.4 mm: (projections not included) 8.66×4.33×4.31 in.

: 1.4kg; 3.09 lb · Weight (approx.)

NMFA formats

RMC, GGA, GNS, GLL, VTG Input

Output DSC, DSE

TRANSMITTER

 Output power : 25W or 1W (at 13.8V DC) : Variable reactance Modulation system

 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

30.15MHz · Intermediate freq. : 1st 21.7MHz (Ch70)

2nd 450kHz Sensitivity : 0.22µV typ. (at 12dB SINAD)

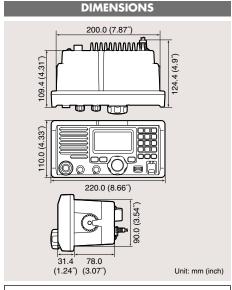
· Squelch sensitivity : Less than 0.32µV (threshold) · Adjacent Ch. selectivity : More than 80dB

 Spurious response : More than 80dB Intermodulation : More than 80dB : More than 40dB Hum and noise

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

with a 4Ω load

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



Supplied accessories:

Hand microphone

DC power cable

Mounting bracket kit

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: 2.58×5.91×1.5 in. Weight (approx.; except cables): 385g; 13.6oz Supplied accessories:

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

Mounting base for cable connector

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



MB-75 FLUSH MOUNT KIT

For flush-mounting the IC-M604A to a flat surface, such as a control panel.



UT-112 VOICE SCRAM-**BLER UNIT**

Provides up to 32 codes for private communication

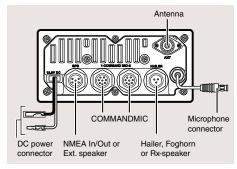
HM-126RB/RG SPEAKER MICROPHONE Same as supplied.

OPC-1000 EXTENSION CABLE FOR HM-126RB/RG 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

The IC-M604A and HM-162B/SW have been tested to and passed the following MIL-STD requirements and strict environmental standards.

Standard	MIL 810 F	
	Method	Procedure
Low Pressure	500.4	I, II
High Temperature	501.4	I, II
Low Temperature	502.4	I, II
Temperature Shock	503.4	I
Solar Radiation	505.4	I
Rain	506.4	I, III
Humidity	507.4	_
Salt Fog	509.4	_
Dust Blowing	510.4	I
Vibration	514.5	I
Shock	516.5	I, IV
Alex mosts assistated MIL CTD 010 C. D. and E.		

Also meets equivalent MIL-STD-810-C, -D and -E.

ICOM INC. 1-1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

www.icom.co.jp/world

Count on us!

Icom America Inc.

2380 116th Avenue NE. Bellevue, WA 98004, U.S.A. Phone : +1 (425) 454-8155 Fax : +1 (425) 454-1509 E-mail: sales@icomamerica.com URL: http://www.icomamerica.com

Icom Canada

Glenwood Centre #150-6165 Highway 17, Delta, B.C., V4K 5B8, Canada Phone : +1 (604) 952-4266
Fax :+1 (604) 952-0090
E-mail : info@icomcanada.com
URL : http://www.icomcanada.com

Icom Brazil

Rua Pernambuco, 353 - Sala 901 Belo Horizonte, M.G. 30130-150. Brazil Phone: +55 (31) 3582 8847 Fax: +55 (31) 3582 8987 E-mail: sales@icombrazil.com

Icom (Europe) GmbH

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Communication Equipment Auf der Krautweide 24 65812 Bad Soden am Taunus, Germany Phone : +49 (6196) 76685-0 : +49 (6196) 76685-50 E-mail: info@icomeurope.com : http://www.icomeurope.com

Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer Bajos A 08174, Sant Cugat del Valles, Barcelona, Spain Phone: +34 (93) 590 26 70 : +34 (93) 589 04 46 F-mail : icom@icomsnain.com

URL : http://www.icomspain.com Icom Polska

81-850 Sopot, ul. 3 Maja 54, Poland Phone : +48 (58) 550 7135
Fax : +48 (58) 551 0484
E-mail : icompolska@icompolska.com.pl URL: http://www.icompolska.com.p

Icom (UK) Ltd.

Blacksole House, Altira Park Herne Bay, Kent, CT6 6GZ, U.K. Phone: +44 (0) 1227 741741 Fax: +44 (0) 1227 741742 E-mail: info@icomuk.co.uk URL: http://www.icomuk.co.uk

Icom France s.a.s.

Zac de la Plaine, 1 Rue Brindejonc des Moulinais, BP 45804, 31505 Toulouse Cedex 5, France Phone: +33 (5) 61 36 03 03 Fax: +33 (5) 61 36 03 00 E-mail:icom@icom-france.com

: http://www.icom-france.com Icom (Australia) Pty. Ltd.

Unit 1 / 103 Garden Road, Clayton, VIC 3168 Australia Phone: +61 (03) 9549 7500 Fax : +61 (03) 9549 7505 E-mail : sales@icom.net.au URL: http://www.icom.net.au

Icom New Zealand

146A Harris Road, East Tamaki, Auckland, New Zealand Phone : +64 (09) 274 4062 Fax : +64 (09) 274 4708 E-mail: inquiries@icom.co.nz URL : http://www.icom.co.nz

Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road, Taipei, Taiwan, R.O.C. Phone: +886 (02) 2559 1899 Fax: +886 (02) 2559 1874 E-mail: sales@asia-icom.com

Your local distributor/dealer: