



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°16.500U

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

hannel 16. The auto switch

DSC Built-in

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

DIMENSIONS

SPECIFICATIONS

GENERAL

Frequency range

156.025-157.425MHz Tx Rx 156.050-163.275MHz

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

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.)

NMEA formats

Input RMC, GGA, GNS, GLL, VTG

Output DSC, DSE

TRANSMITTER

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

450kHz 2nd Sensitivity : 0.22uV tvp. (at 12dB SINAD)

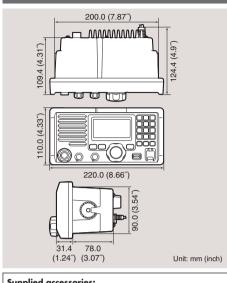
 Squelch sensitivity : Less than 0.32µV (threshold)

· Adjacent Ch. selectivity : More than 80dB • Spurious response : More than 80dB Intermodulation : More than 80dB Hum and noise : More than 40dB

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

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 · 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 (WxHxD): 65.5x150x38 mm: 2.58x5.91x1.5 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**

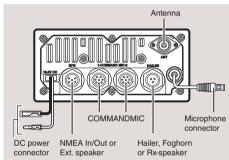
Provides up to 32 codes for private communication.

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 $^{\text{TM}}$ 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.

MIL 810 F	
Method	Procedure
500.4	I, II
501.4	I, II
502.4	I, II
503.4	I
505.4	I
506.4	I, III
507.4	_
509.4	_
510.4	I
514.5	I
516.5	I, IV
	Method 500.4 501.4 502.4 503.4 505.4 506.4 507.4 509.4 510.4 514.5

www.icom.co.jp/world

COMMANDMIC and FORCE5AUDIO are registered trademarks of Icom Inc. (Japan) in the U.S.A.

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 (Australia) Pty. Ltd.

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

Icom Inc. 1-1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 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 : http://www.icom.co.nz

Icom (Europe) GmbH

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

Icom (UK) Ltd.

Blacksole House, Altira Park, Herne Bay, Kent, CT6 6GZ, U.K. Phone: +44 (01227) 741741 Frione: +44 (01227) 741741

Fax : +44 (01227) 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

URL: http://www.icom-france.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.pl

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

Fax: +81 (06) 6793 0013

Your local distributor/dealer:

Count on us!