

SPECIFICATIONS

GENERAL		
Frequency range	Tx Rx CH70 AIS1, 2	156.025–161.600 MHz 156.050–163.275 MHz 156.525 MHz 161.975, 162.025 MHz
Usable channels	USA, CAN, INT, WX channels	
Type of emission	16K0G3E (FM), 16K0G2B (DSC)	
Power supply requirement	13.8 V DC (11.7–15.9 V DC)	
Current drain	Tx 25 W output Rx Max. audio	6.0 A 8.0 A
Operating temperature range	–20°C to +60°C; –4°F to +140°F	
Antenna impedance	50 Ω (SO-239)	
Weight (approximately)	1.5 kg; 3.3 lb	
TRANSMITTER		
Output power (at 13.8 V DC)	25 W, 1 W	
Max. frequency deviation	±5 kHz	
Frequency tolerance	±5 ppm	
Spurious emissions	Less than –70 dBc (at 25 W)	
Residual modulation	More than 40 dB	
Adjacent channel power	More than 70 dB	
RECEIVER		
Intermediate frequency CH70	30.15 MHz, 450 kHz (1st/2nd) 21.70 MHz, 450 kHz (1st/2nd)	
Sensitivity (at 12 dB SINAD) CH70 (1% BER)	0.22 µV typical 0.71 µV emf typical	
Adjacent channel selectivity CH70 (1% BER)	More than 80 dB More than 80 dBµ emf	
Spurious response CH70 (1% BER)	More than 77 dB More than 73 dBµ emf	
Intermodulation CH70 (1% BER)	More than 80 dB More than 73 dBµ emf	
Hum and noise	More than 40 dB	
Audio output power (at 10% distortion)	More than 15 W with a 4 Ω external speaker	

Measurements made in accordance with TIA/EIA 603 and IEC 62238. All stated specifications are subject to change without notice or obligation.

Applicable U.S. Military Specifications

Standard	MIL 810 G	
	Method	Procedure
Low Pressure	500.5	I, II
High Temperature	501.5	I, II
Low Temperature	502.5	I, II
Temperature Shock	503.5	I–C
Solar Radiation	505.5	I
Rain	506.5	I, III
Humidity	507.5	II
Salt Fog	509.5	–
Dust Blowing	510.5	I
Immersion	512.5	I
Vibration	514.6	I
Shock	516.6	I, IV

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

Applicable IP Rating

Ingress Protection Standard	
Water	IPX8 (1 m depth water for 60 minutes)

Supplied accessories:
• Speaker microphone, HM-205RB • GNSS antenna, UX-241
• Microphone hanger • DC power cable • Mounting bracket kit
• Conversion cable, OPC-2384* * Not supplied depending on version.

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Icom Inc. 1-1-32, Kamiminami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 www.icom.co.jp/world

Icom America Inc.
12421 Willows Road NE,
Kirkland, WA 98034, 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 17A, 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 Itororó, 444 Padre Eustáquio
Belo Horizonte MG,
CEP: 30720-450, Brazil
Phone: +55 (31) 3582 8847
Fax: +55 (31) 3582 8987
E-mail: sales@icombrasil.com

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@icom-europe.com
URL: <http://www.icomeurope.com>

Icom Spain S.L.
Ctra. Rubí, No. 88 "Edificio Can Castanyer"
Bajos A 08174, Sant Cugat del Valles,
Barcelona, Spain
Phone: +34 (93) 590 26 70
Fax: +34 (93) 589 04 46
E-mail: icom@icomspain.com
URL: <http://www.icomspain.com>

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 Brindejone 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 (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>

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Fax: +61 (03) 9549 7505
E-mail: sales@icom.net.au
URL: <http://www.icom.net.au>

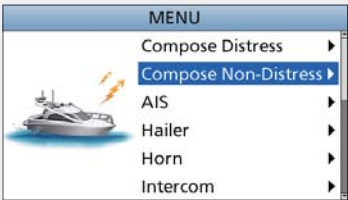
Icom (Australia) Pty. Ltd.
Unit 1 / 103 Garden Road,
Clayton, VIC 3168 Australia
Phone: +61 (03) 9549 7500

This VHF/AIS Radio Matches Your Boat in Performance, System Flexibility and User-Friendliness



Wide Viewing Angle 4.3-inch Color TFT LCD

First in its class, the color LCD provides nearly a 180 degree viewing angle. The 4.3-inch wide display has high resolution characters and function icons. The night mode screen provides the optimal viewing brightness for comfortable operation in the dark.



Menu screen

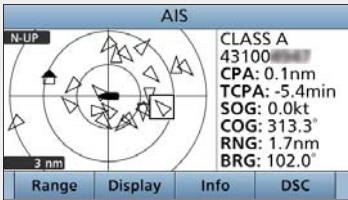


Night mode

Integrated AIS* Receiver

With an integrated AIS receiver, the IC-M605 can show real-time AIS vessel traffic information on the display. The AIS combo screen enables you to monitor the AIS plotter during basic operation. You can directly call a selected AIS target from the AIS screen using an individual DSC call.

* An optional UX-251 AIS receiver unit is required, depending on version.



AIS plotter

TARGET LIST (136)			
MMSI/Name	RNG	BRG	
DAIEIMARU NO.3	3.3	154	
GYOKO MARU	3.4	147	
MIRAIE	3.4	249	
TOKUYO MARU NO21	3.9	259	
Display	Info	DSC	

AIS target list

Intuitive User Interface

A combination of the directional keypad and soft keys provides simple operation. Most used functions are assigned to soft keys (at the bottom of the display) for quick one push function access. The large ten-key pad enables you to smoothly enter channel numbers, MMSI numbers with ID names and so on.

Class Leading Receiver Performance

A weak signal adjacent to a strong signal can be clearly received by the IC-M605. Its commercial grade receiver performance (selectivity and IMD: more than 80 dB) provides reliable communication at all times.

Active Noise Canceling

The Active Noise Canceling digitally removes background noise from both transmit and receive audio and provides clear communication in a noisy maritime environment.

Last Call Voice Recording

The last call voice recording function automatically saves up to two minutes of an incoming call. Don't miss any incoming messages.

Private Conversation

With an optional voice scrambler unit, UT-112, the IC-M605 provides 32 tone secure conversation. This function is useful when you want to share private information with consort ships.

Provides Clear, Loud Audio

The IC-M605's internal speaker enhances intelligibility of received calls. The waterproof, paper speaker-cone provides superior sound quality with a wide frequency range and a flat frequency response for powerful, yet clear audio.

Integrated GNSS Receiver

The GNSS (GPS, GLONASS and SBAS) receiver is integrated in the IC-M605. Position information can be simply received with connection to the supplied GNSS antenna with 5 m cable, UX-241.

30 W Two-Way Hailer and Automatic Foghorn

When connected to the optional horn speaker, SP-37, you can talk with crews on the deck or shore from the radio's microphone and can hear any reply via the horn speaker. Also available the RX hailer function and four patterns of automatic foghorn.

NMEA 2000™, NMEA 0183/-HS Connectivity

Using NMEA 2000™ connectivity, the radio can exchange GNSS, AIS reports, DSC call information data, radio frequency and PGN list data on the network. NMEA 0183/-HS GNSS position data can also be converted to NMEA 2000™ data for other equipment.

- And more**
- IPX8 submersible (1 m depth of water for 60 minutes)
 - Dual and Tri-watch functions
 - Weather channels with alert function
 - DSC Multi-task function
 - AquaQuake™ prevents audio degradation from a water-logged speaker
 - Instant-access button for Channel 16 and call channel
 - Supplied speaker microphone, HM-205RB can be connected to the rear panel
 - Compatible with the Icom's marine navigation system, MarineCommander™

VHF MARINE TRANSCEIVER IC-M605

