SPECIFICATIONS

GENERAL

Frequency range Tx	156.025–161.600 MHz
Rx	156.050–163.275 MHz
CH70	156.525 MHz
AIS1, 2	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	6.0 A
Rx Max. audio	8.0 A
Operating temperature range	–20°C to +60°C; –4°F to +140°F
Antenna impedance	50 Ω (SO-239)
Weight (approximately)	1510 g; 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	30.15 MHz, 450 kHz (1st/2nd)
CH70	21.70 MHz, 450 kHz (1st/2nd)
Sensitivity (at 12 dB SINAD)	0.22 µV typical
CH70 (1% BER)	0.71 µV emf typical
Adjacent channel selectivity	More than 80 dB
CH70 (1% BER)	More than 80 dBµ emf
Spurious response	More than 77 dB
CH70 (1% BER)	More than 73 dBµ emf
Intermodulation	More than 80 dB
CH70 (1% BER)	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

	MIL 810 G	
Standard	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

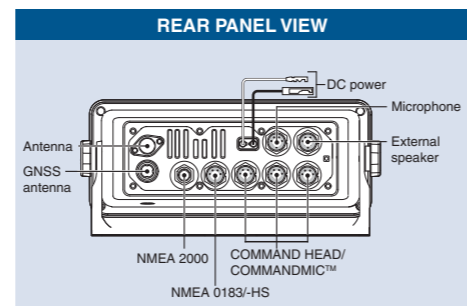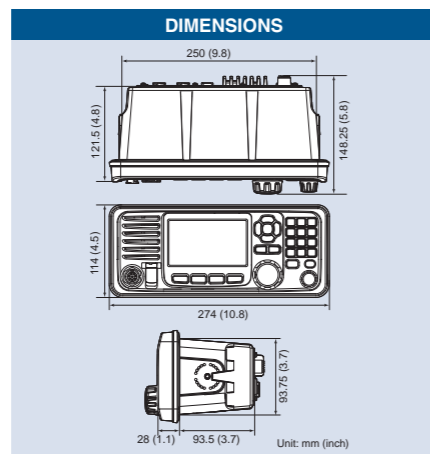| Ingress Protection Standard	
Water	IPX8 (1 m depth water for 60 minutes)

Supplied accessories:
• Speaker microphone, HM-205RB • GNSS antenna, UX-241
• Microphone hanger • DC power cable • Mounting bracket kit

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

COMMANDMIC™

HM-195GB (Black) HM-195GW (White)

Supplied accessories
• OPC-1540. 6.1 m (20 ft) cable
• Microphone hanger
• Mounting base for connector
* Amber backlit COMMANDMIC, HM-195B/SW are also available.

CONVERSION CABLE
OPC-2384
12-pin to 8-pin. Required for COMMANDMIC™.

EXTENSION CABLE
OPC-1541
6.1 m (20 ft).
Up to two cables available.

COMMAND HEAD

RC-M600
IPX8 submersible
(1 m depth of water for 60 min.).

Supplied accessories
• OPC-2383, 10 m (32.8 ft) cable • Speaker microphone, HM-205RB • DC power cable
• MIC hanger • Mobile bracket kit

EXTENSION CABLE
OPC-2377
10 m (32.8 ft).
Up to four cables available.

HORN SPEAKER
SP-37

VOICE SCRAMBLER UNIT
UT-112

FLUSH MOUNT KIT
MB-75

AIS RECEIVER UNIT
UX-251
Already installed, depending on version.

GNSS ANTENNA
UX-241
Same as supplied.

SPEAKER-MICROPHONE
HM-205RB
Same as supplied.

CLASS B AIS TRANSPONDER
MA-500TR
For transmitting own vessel AIS information.

CABLES for COMMAND HEAD/COMMANDMIC™

	For connection	For extension
RC-M600	OPC-2383	OPC-2377* (up to four cables)
HM-195 series	OPC-2384*, OPC-1540	OPC-1541* (up to two cables)

* Options.

DIMENSIONS

250 (9.8)
121.5 (4.8)
148.25 (5.8)
114 (4.5)
274 (10.8)
93.75 (3.7)
28 (1.1) 93.5 (3.7)
Unit: mm (inch)

REAR PANEL VIEW

DC power
Microphone
External speaker
Antenna
GNSS antenna
NMEA 2000
COMMAND HEAD/COMMANDMIC™
NMEA 0183/-HS

CONFIGURATION VARIATIONS

	AIS Receiver
IC-M605 AIS	Integrated AIS receiver
IC-M605	Not included (Optional UX-251 is required)

Count on us!

Your local distributor/dealer:

VHF MARINE TRANSCEIVER
ICOM
IC-M605

Premium Class D DSC VHF Radio and System Flexibility

This VHF/AIS Radio Matches Your Boat in Performance, System Flexibility and User-Friendliness
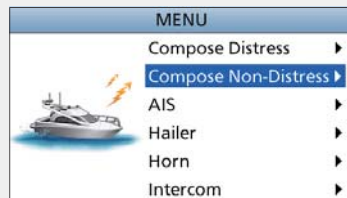
Up to Three COMMAND HEAD/COMMANDMIC™

All functions of the IC-M605 (including DSC and distress operation) can be remotely controlled with up to three controllers, RC-M600 COMMAND HEAD and/or HM-195 series COMMANDMIC™, with an intercom function available among the main radio and controllers. The system allows for maximum operating flexibility anywhere on your boat.

Flybridge

Cockpit

HM-195 series

IC-M605

Office corner

Engine room

RC-M600
Controls the IC-M605 from up to 50 m (164 ft).

HM-195 series
Saves space and fully controls the IC-M605 from up to 18.3 m (60 ft).

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.
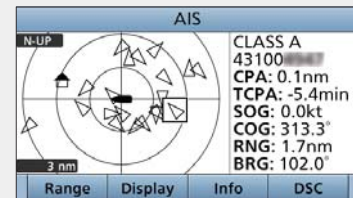
Integrated AIS* Receiver

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.

Menu screen | Night mode | AIS plotter | 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™ draining function
• 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