

# IC-M506GE



# Advanced Fixed Mount VHF with GPS and NMEA 2000 Connectivity



# **Integrated AIS Receiver**

With an integrated AIS receiver, the IC-M506GE can show real-time AIS vessel traffic information on the display. The AIS target call function allows you to easily set up a DSC individual call. The Plotter, Target list and Danger list can be toggled on the display.



E TARGET LIST	(	139) ≡
MMSI/Name	RNG	BRG
431003	1.1	331
TAMAKI PRIN	1.4	003
EIWAMARU	1.4	280
OVAL LP NO.1	1.6	266
KANRYUMARU	1.7	006
ന്നുള		

AIS plotter display

Target list example



# NMEA 2000™ Connectivity

With the plug-and-play functionality of NMEA 2000, the IC-M506GE can easily connect to a NMEA 2000 network. The IC-M506GE can receive and transmit GPS (position, course (COG) and speed (SOG)), AIS report and DSC call information data and transmit radio frequency and PGN list data on the network. Using this function, the IC-M506GE can convert NMEA 0183 GPS data to NMEA 2000 data for other equipment.



# **Last Call Voice Recording**

The last call voice recording function automatically saves the last two minutes of the last incoming call. You can replay the received call, and not miss any incoming call.



# **Active Noise Cancelling**

Using digital signal processing technology, the built-in bidirectional active noise cancelling provides superb performance. It reduces background noise to up to 90% in the received signal and 30% fixed in the transmitting signal. The function OFF setting is also possible.



# **Intuitive Menu-Driven User Interface**

The intuitive software key functions provide easy and

fast operation to control the multiple functions of the IC-M506GE. The bottom line of the dot-matrix display shows the software key functions which can be toggled with the left and right buttons.



Functions menu



# 25 W Two-Way Hailer

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. The RX hailer function allows you to monitor the received audio from the horn speaker. The built-in 25 W amplifier increases your talk power, making it loud and clear.



# **Built-in Horn (Automatic & Manual)**

Four horn patterns are selectable for the automatic horn function when it is connected to the optional SP-37 horn speaker.



# **/AIS Receiver**



# ITU Class D DSC (Meets ITU-R M493-14)

The built-in DSC watch function monitors Ch. 70 (DSC channel) activity, even while you are receiving another channel. DSC functions include: distress, individual, group, all ships, urgency, safety, position request/report, polling request and DSC test calls. Up to 100 DSC address IDs can be programmed.



## **GPS Receiver Built-in**

A built-in GPS receiver with external antenna provides your location, bearing and speed by using information from GPS and GLONASS. The acquired position information can be used for DSC calls.



Supplied GPS antenna (5 m)



# **IPX8 Advanced Waterproof**

The IC-M506GE and supplied HM-205B microphone can withstand 1 m depth of water for 60 minutes.

# **Other Features**

- 15 W audio output power (with external speaker)
- AguaQuake<sup>™</sup> draining function
- Optional voice scrambler, UT-112/A for private conversation
- MA-500TR AIS transponder and MarineCommander™ compatible



# Optional COMMANDMIC™ for 2nd Station Capability



# **Full Control and Intercom**

The optional COMMANDMIC, HM-195 series provides 2nd station capability for using the IC-M506GE from up to 18.3 m (60 ft)\* away such as a separate cabin or tower. Most functions including DSC and AIS functions can be controlled from the COMMANDMIC and can be used as an intercom with the IC-M506GE. One COMMANDMIC can be used.

\* Two optional OPC-1541 extension cables required.



# **IPX7 Waterproof Construction**

The HM-195 series withstands submersion in up to 1 m depth of water for 30 minutes.



# Same Menu-Driven User Interface with IC-M506GE

The HM-195 series provides same user interface with the IC-M506GE. The directional keypad and softkey buttons allow you to perform various operations and settings. The audio and backlight levels can be set independently from the IC-M506GE.

# Other Features

- External speaker connection
- Remote power ON/OFF function
- Black and super white color version

"Distress" button on the back of the unit



# **SPECIFICATIONS**

### GENERAL Frequency range TX 156.000-162.000 MHz 156.000-163.425 MHz CH70 156 525 MHz 161.975, 162.025 MHz AIS1, 2 Usable channels INT, USA\* channels Available depending on version Type of emission 16K0G3E (FM), 16K0G2B (DSC) Power supply requirement 13.8 V DC (10.8-15.6 V DC) Current drain (at 13.8 V DC) TX 25 W output RX AF Max External SP 5.0 A (RX hailer ON) Internal SP 1.5 A Operating temperature range -20°C to +60°C Antenna impedance 50 Ω (SO-239) Weight (approx.) 1400 g **TRANSMITTER** Output power (at 13.8 V DC) 25 W, 1 W Max. frequency deviation ±5.0 kHz Frequency stability Less than ±0.5 kHz Less than 0.25 µW Spurious emissions RECEIVER 1st 30.15 MHz, 2nd 450 kHz 1st 21.7 MHz, 2nd 450 kHz Intermediate frequency CH70 −5 dBµ emf typ. Sensitivity (20 dB SINAD) –4 dBµ emf typ. CH70 (1% BER) More than 75 dB Adjacent channel More than 73 dBµ emf selectivity CH70 (1% BER) More than 75 dB Spurious response CH70 (1% BER) More than 73 dBµ emf More than 75 dB Intermodulation CH70 (1% BER) More than 68 dBµ emf Hum and noise More than 40 dB Audio output power More than 15 W (at 10% distortion) with a 4 $\Omega$ RX speaker

### **GPS/GLONASS RECEIVER** 1575.42 MHz (GPS), Receiving frequency 1602 MHz (GLONASS) Receiving channels 24 channels Satellite differential type WAAS, EGNOS, MSAS, GAGAN

Measurements made in accordance with EN301 025-2,-3. All stated specifications are subject to change without notice or obligation.

# Applicable U.S. Military Specifications

IC-M506GE and HM-205B have been tested to and passed the following MIL-STD requirements and strict environmental standards.

Standard	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	
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 masses a maiorisostem ANU OTD 040 O. D. Farrel F.			

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

# **Applicable IP Rating**

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

# Supplied accessories:

- Hand hanger DC power cable
- · Mounting bracket kit • GPS antenna

# **OPTIONS**

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



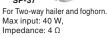




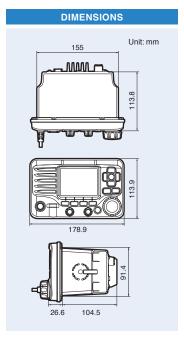














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ICOM Inc. 1-1-32, Kamiminami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

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