IC-M506

VHF MARINE TRANSCEIVER

SPECIFICATIONS

GENERAL
- Frequency range: 156.050 – 163.275 MHz
- Audio output power: more than 70 dBμV
- Spurious response: more than 75 dB
- Intermediate frequency: 1st 30.15 MHz, 2nd 450 kHz
- Frequency deviation: ±5.0 kHz
- Max. frequency deviation: ±5.0 kHz
- Power supply requirement: 13.8 V DC (11.7–15.9 V DC)
- Power output (at 13.8 V DC): 25 W, 1 W
- Current drain (at 13.8 V DC): 1.5 A
- Power supply requirement: 13.8 V DC

TRANSMITTER
- Output power (at 13.8 V DC): 25 W, 1 W
- Current drain (at 13.8 V DC): 5.0 A (RX hailer ON)
- Power supply requirement: 13.8 V DC

RECEIVER
- RX speaker: more than 68 dBμV
- Intermodulation: more than 75 dB
- Spurious emissions: less than –70 dBc (at 25 W)
- Frequency tolerance: ±10 ppm
- Max. frequency deviation: ±5.0 kHz
- Audio output power: more than 73 dBμV
- RF sensitivity: more than 73 dBμV
- Spurious response: more than 75 dB

DIMENSIONS
- Unit: mm (inch)
  - H: 113.9 (4.5) 113.8 (4.5)
  - W: 26.6 (1.1) 104.5 (4.1

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

SUPPLIED ACCESSORIES
- Microphone NMEA 2000 AIS Receiver
- Front Mic NMEA 0183
- Rear Mic

CONFIGURATION VARIATIONS
- Microphone
- NMEA 2000
- AIS Receiver

For Two-way hailer and foghorn.

OTHER
- NMEA 2000 consists of two sets of data: IN/OUT

Important: Design, specifications, and accessories are subject to change without notification.

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Fixed Mount VHF and AIS Receiver Combo with NMEA 2000™ Connectivity

Integrated AIS Receiver
With an integrated AIS receiver, the IC-M506 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.

NMEA 2000™ Connectivity
With the plug-and-play functionality of NMEA 2000 network, the IC-M506 can easily connect to a NMEA 2000 network. The IC-M506 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-M506 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 Canceling
Using digital signal processing technology, the built-in bidirectional active noise canceling 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-M506. The bottom line of the dot-matrix display shows the software key functions which can be toggled with the left and right buttons.

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)
When connected to the optional horn speaker, SP-37, four horn patterns are selectable for the automatic horn function.

Active Noise Canceling

ITU Class D DSC
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.

Rear Microphone Version
With this version, the microphone connector is drawn from the rear panel and a 6.1 m (20 ft) microphone extension cable is supplied to allow you clean and neat panel installation.

Ask your dealer for details.

IPX8 Submersible Plus™
The IC-M506 and supplied HM-205B/RB microphone can withstand 1 m (3.2 ft) depth of water for 60 minutes.

Other Features
• Auto and manual foghorn function
• Simple remote control speaker-microphone, HM-205B/RB
• 15W audio output power (with external speaker)
• Weather channels with alert function (USA version only)
• AquaQuake™ draining function
• Optional voice scrambler, UT-112 for private conversation
• MA-500TR AIS transponder and MarineCommander™ compatible

* AIS receiver and NMEA 2000 interface units are options, depending on version.

Optional COMMANDMIC™ for 2nd Station Capability

Full Control and Intercom
The optional COMMANDMIC, HM-195 series provides 2nd station capability for using the IC-M506 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-M506.

Same Menu-Driven User Interface with IC-M506
The HM-195 series provides same user interface with the IC-M506. 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-M506.

IPX7 Submersible Construction
The HM-195 series withstands submersion in up to 1 m (3.2 ft) depth of water for 30 minutes.

Optional COMMANDMIC™ for 2nd Station Capability

Full Control and Intercom

Same Menu-Driven User Interface with IC-M506

IPX7 Submersible Construction

* Two optional OPC-1541 extension cables required.

* AIS receiver and NMEA 2000 interface units are options, depending on version.