



# IC-M400BBE

VHF MARINE TRANSCEIVER

## *Black Box Transceiver When Space is at a Premium*



Installation example



**Space Saving,  
Fully Functional VHF/DSC**



**Controlled by COMMANDMIC™ HM-195B/SW**  
HM-195B/SW may be sold separately, depending on version.



**New Icom Marine Family User Interface**  
Shares same user interface operation with IC-M423.



**Active Noise Cancelling Technology**  
Reduces background noise to up to 90%.



**10 W Loud Audio, Public Address & Fog Horn**  
With external speaker.



**Built-in Class D DSC**  
Meets ITU-R M493-14 specifications.



**Built-in GPS Receiver**  
GPS antenna supplied



**Common NMEA Interface**  
For GPS/NAV Connection.



**MarineCommander™  
Compatible**



**MA-510TR/MA-500TR AIS  
Transponder Compatible**



**AquaQuake™ Draining Function**  
HM-195B/SW



**IPX7 Waterproof**  
1 m depth water for 30 minutes.

## Space-Saving, Two-Piece Configuration

The IC-M400BBE consists of a two-piece, black box configuration. All function control including DSC operation, can be made from the COMMANDMIC™, HM-195B/SW, and the RF unit, IC-M400BBE, can be installed in an out-of-sight place.

## New Intuitive User Interface

The new menu system is shared with Icom's latest models. The bottom line of the dot-matrix display shows the software key functions which can be toggled with the left and right buttons.

## Active Noise Cancelling

The built-in bidirectional active noise cancelling reduces background noise to up to 90% and improves both your transmitted voice and incoming call. Hear and be heard more clearly.

## 10 W Loud Audio, Public Address and Foghorn

The IC-M400BBE has a built-in 10 W amplifier that increases the audio output from an additional external speaker. The public address function allows you to make an announcement from the microphone like a loud speaker, and the foghorn can also be emitted from the external speaker.

## SPECIFICATIONS

GENERAL		
Frequency range	Tx Rx CH70	156.000–161.450 MHz 156.000–163.425 MHz 156.525 MHz
Usable channels		INT, USA* channels * Available depending on version
Type of emission		16K0G3E (FM), 16K0G2B (DSC)
Power supply requirement		13.8 V DC nominal (10.8–15.6 V DC)
Current drain		
	Tx 25 W output	5.5 A
	Rx Max. audio	3.5 A
Operating temperature range		–20°C to +60°C
Antenna impedance		50 Ω (SO-239)
Dimensions (Projections not included)		(W×H×D)
	IC-M400BBE	216×79×125 mm
	HM-195B/SW	67.5×144.5×37 mm
Weight		
	IC-M400BBE	830 g
	HM-195B/SW	400 g
NMEA in/out formats		RMC, GGA, GNS, GLL, DSC, DSE
TRANSMITTER		
Output power		25 W, 1 W
Max. frequency deviation		±5.0 kHz
Frequency stability		Less than ±1.5 kHz
Spurious emissions		Less than 0.25 µW

## Built-in 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.

## Common NMEA Interface

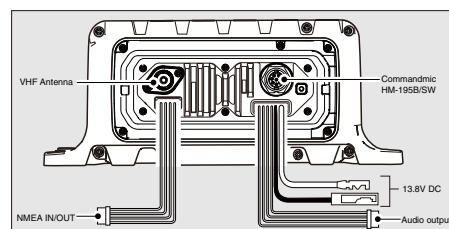
Current position and time are shown on the Commandmic display. When receiving DSC information from another vessel, the radio can transfer it to a navigational device via NMEA 0183 connectivity.

## AIS Target Call with MA-510TR/MA-500TR

When connected to the optional MA-510TR/MA-500TR Class B AIS transponder, the AIS target call function allows you to set up an individual DSC call from the MA-510TR/MA-500TR.

## And More

- MarineCommander™ compatible
- AquaQuake™ water draining function (HM-195B/SW)
- IPX7 waterproof protection both for IC-M400BBE and HM-195B/SW (1 m depth for 30 minutes)
- Dual/tri-watch function for monitoring Ch.16 and/or call channel
- Priority and normal scan
- Supports 4-digit channels



## OPTIONS

**COMMANDMIC™**  
  
 HM-195B (Black)    HM-195SW (Super white)

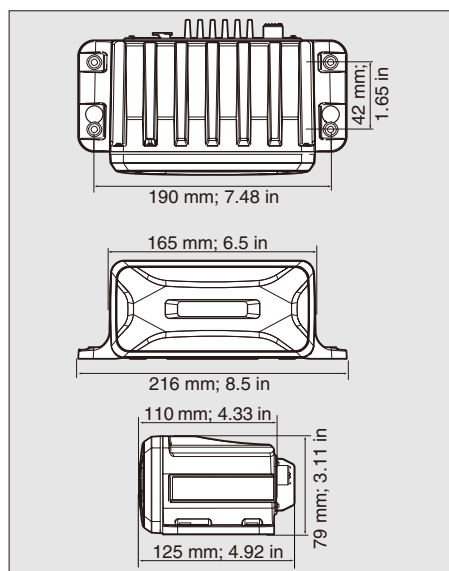
**Supplied accessories**  
  
 • 6.1 m (20 ft) of cable  
 • Microphone hanger  
 • Mounting base for connector

White backlit COMMANDMIC, HM-195GB/HM-195GW are also available.

**EXTENSION CABLE for COMMANDMIC, HM-195B/SW**  
  
**OPC-1541**  
 6.1 m (20 ft) extension cable.  
 Up to two cables available.

**CLASS B AIS TRANSPONDERS**  
  
**MA-510TR**  
**MA-500TR**

RECEIVER		
Sensitivity	Main DSC	–5 dBµ emf typ. (20 dB SINAD) –4 dBµ emf typ. (1% BER)
Squelch sensitivity	Main	Less than –2 dBµ emf
Adjacent channel selectivity	Main DSC	More than 70 dB More than 73 dBµ emf (1% BER)
Spurious response	Main DSC	More than 70 dB More than 68 dBµ emf (1% BER)
Intermodulation	Main DSC	More than 68 dB More than 68 dBµ emf (1% BER)
Hum and noise		More than 40 dB
Audio output power		More than 2 W (HM-195B/SW) More than 10 W (RX Speaker)
<b>Measurements made in accordance with EN 301 025-2, -3.</b> <b>All stated specifications are subject to change without notice or obligation.</b>		
<b>Applicable IP Rating</b> <b>Ingress Protection Standard (IC-M400BBE and HM-195B/SW)</b> Water   IPX7 (Waterproof protection)		
<b>Supplied accessories:</b> • COMMANDMIC, HM-195B/SW*    • DC power cable • GPS antenna * COMMANDMIC, HM-195B/SW may be sold separately, depending on version.		



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