



VHF MARINE TRANSCEIVER

IC-M400BB



Installation example

Black Box Transceiver When Space is at a Premium



**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-M424.



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



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



Built-in Class D DSC
Meets latest ITU-R 493-13.



Common NMEA Interface
For GPS/NAV connection.



**MarineCommander™
Compatible**



**MA-500TR AIS Transponder
Compatible**



AquaQuake™ Draining Function
HM-195B/SW



IPX7 Submersible
1m depth water for 30 minutes.

Space-Saving, Two-Piece Configuration

The IC-M400BB 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-M400BB, 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.

10W Loud Audio, Public Address and Foghorn

The IC-M400BB has a built-in 10W 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 Ch. 70	156.025–157.425MHz 156.050–163.275MHz 156.525MHz	
Usable channels	USA, INT, CAN and WX channels		
Type of emission	16K0G3E (FM), 16K0G2B (DSC)		
Power supply requirement	13.8V DC nominal (11.7–15.9V DC)		
Current drain			
Tx 25W output	5.5A Max.		
Rx Max. audio	3.5A Max.		
Operating temperature range	–20°C to +60°C; –4°F to +140°F		
Antenna connector	50Ω (SO-239)		
Dimensions (Projections not included)	(W×H×D)		
IC-M400BB	216×79×125mm; 8.5×3.11×4.92 in		
HM-195B/SW	67.5×144.5×37mm; 2.66×5.69×1.46 in		
Weight			
IC-M400BB	830g; 1.83 lb		
(approx.) HM-195B/SW	400g; 14.1 oz		
NMEA in/out formats	RMC, GGA, GNS, GLL, DSC, DSE		
TRANSMITTER			
Output power	25W, 1W (High, low)		
Max. frequency deviation	±5.0kHz		
Frequency tolerance	±10ppm		
Spurious emissions	Less than –70dBc (at 25W)		

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

When connected to an external GPS receiver, 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-500TR

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

And More

- MarineCommander™ compatible
- AquaQuake™ water draining function (HM-195B/SW)
- IPX7 submersible protection both for IC-M400BB and HM-195B/SW (1m depth for 30 minutes)
- Dual/tri-watch function for monitoring Ch.16 and/or call channel
- Priority and normal scan

RECEIVER

Sensitivity	Main Ch. 70	0.22μV typical (at 12dB SINAD) –5dBμ emf typ. (1% BER)
Squelch sensitivity	Main	Less than 0.32μV
Adjacent channel selectivity	Main Ch. 70	More than 70dB More than 73dBμ emf (1% BER)
Spurious response	Main Ch. 70	More than 70dB More than 73dBμ emf (1% BER)
Intermodulation	Main Ch. 70	More than 70dB More than 68dBμ emf (1% BER)
Hum and noise	More than 40dB	
Audio output power	More than 2W (HM-195B/SW)	
(at 10% distortion, 4Ω load)	More than 10W (RX Speaker)	

Measurements made in accordance with TIA/EIA 603 and IEC 62238 (Ch. 70 receiver specifications).

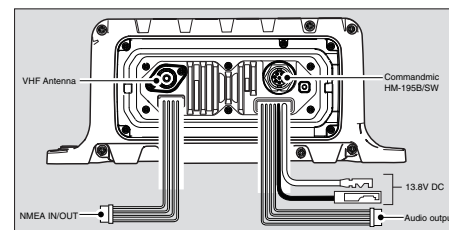
Applicable IP Rating

Ingress Protection Standard (IC-M400BB and HM-195B/SW)

Water IPX7 (Waterproof protection)

Supplied accessories:

- COMMANDMIC, HM-195B/SW* • DC power cable
- * COMMANDMIC, HM-195B/SW may be sold separately, depending on version.

**OPTIONS**

COMMANDMIC™

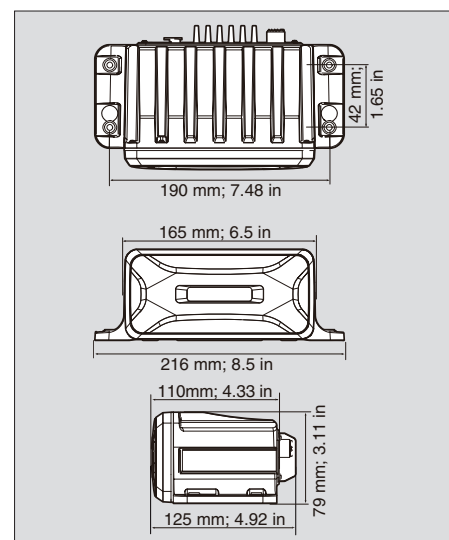
HM-195B (Black) **HM-195SW (Super white)**

Supplied accessories

- 6.1m (20ft) of cable
- Microphone hanger
- Mounting base for connector

EXTENSION CABLE for COMMANDMIC, HM-195B/SW

OPC-1541
 6.1m (20ft) extension cable.
 Up to two cables available.
CLASS B AIS TRANSPONDER

MA-500TR


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