ICOM

Marine Commander™

- Integrated System
- Dual Display
- Simple Installation
Command – Your Way, Communications and Navigation Setup

System overview
The MarineCommander™ is Icom’s marine navigation system, which integrates various marine modules such as a fish finder, marine radar, AIS and VHF transceiver into the multi-function displays (MFD).
Up to two MFDs can be connected to a main processor unit (MPU) and support separate dual display operation.
If connecting two MarineCommander MPUs via a data cable, up to four MFDs can be used and the connected modules (e.g. fish finder, radar) can be shared with the other MFDs.

Affordable Dual Display Connection
Up to Four Displays in a System
The MarineCommander allows you to connect two MFDs simultaneously. All connected modules including chart data, fish finder and marine radar can be shared with two MFDs, which can provide separate operation. The MFD can be installed up to 20m (65.6ft)* away from the MPU. When connecting two MarineCommanders via a data cable, up to 4 displays can be used and C-MAP™ chart data can be shared in the system.
* Three optional 50cm-187 extension cables are required.

Slim Dimensions and Easy Installation
The MFD has 69.2mm (2.7 inch) slim dimensions and is light weight for easy flush mount installation. The MFD has IPX7 submersible construction, protecting it from water intrusion. The MFD can be connected with a main processor unit (MPU) using a single cable connection and power supplied via MPU.

Daylight Viewable Display
The 12.1 inch size MFD provides 800x600 pixels resolution. The 900cd/m² high brightness, color LCD with anti-reflecting surface coating glass offers bright, vivid indication in detail even under direct sunlight. The color palette is selectable for day and night mode.

Simple Operation
The MarineCommander offers a simple graphical user interface and intuitive operation with minimum buttons and rotary knob. The display layout can be split into up to 4 panels, providing an easily customized layout with simple operation.

C-MAP™ MAX Compatible
The MarineCommander is compatible with the C-MAP™ MAX chart by JEPPesen in an SD card format. The MarineCommander provides quick and fast responding rendering performance. The C-MAP™ MAX chart provides guardian alarm, route-check, perspective view and Port database for safe and easy navigation.
* Chart data is not supplied from Icom.
The MXR-5000R/T marine radar provides clear target discrimination. Waypoint and AIS target can be overlaid on the radar screen. The marine radar helps collision avoidance and increases your safety at sea. The radar images can be overlaid on the plotter screen in the same scale and helps you to detect dangerous objects.

**Marine Radar**

The MarineCommander shows current data on a virtual engine meter. This data can also be shown on the status-bar or data-bar according to your setting.

**Engine Monitoring**

**Video Camera Monitoring**

The MarineCommander has four video input ports with RCA connectors for connecting up to 4 surveillance video cameras (NTSC or PAL format) and allows you to monitor surroundings and crew members on the MarineCommander display.

**Other Features**

- The external display connector (analog RGB) allows you to output to an external display
- Multiple language display (English/French/Spanish)
- External NMEA 2000 connection (Engine, Fuel, Engine Temperature, Wind, GPS, Compass, STW)
- Simulator mode can demonstrate key system functions using only the MXP-5000 and MXD-5000
- Memo function allows you to store a comment with picture data* and position information.

*To show picture data, the picture data must be stored in the connected USB flash drive.

**AIS (Automatic Identification System)**

AIS (Automatic Identification System) receives real-time vessel traffic information broadcasted by other AIS equipped vessels. Using the optional MA-500TR or MA5000, the AIS data can be overlaid on the plotter and radar screen.

**AIS & VHF Transceivers**

**Fish Finder**

When a fish finder module is connected, the MarineCommander system can have a dual frequency sounder function. Using the 50/4kHz/200kHz dual frequency mode, the MarineCommander enhances the separation and helps in fish detection.

**Simplified ATA (Automatic Tracking Aid)**

The simplified ATA function allows you to plot up to 10 targets and the radar continues to track the targets automatically. The ATA targets can be overlaid on the plotter screen.

**Marine Radar**

- **EX-3193**
  - Dual frequency sounder
  - Depth, speed, and temperature in 3 feet (95cm) spacing
  - Water temperature
  - 3 kHz high-resolution speed

- **EX-3194**
  - Dual frequency sounder
  - Depth, speed, and temperature in 3 feet (95cm) spacing
  - Water temperature
  - 3 kHz high-resolution speed

- **EX-3195**
  - Dual frequency sounder
  - Depth and fast response when temperature reaches 38°F and above
  - 3 kHz high-resolution speed

**Fish Finder**

**Initial data for waypoints**

When used with the fish finder module, the MarineCommander memorises the waypoint information with depth and temperature data.

- **VHF Transceiver**
  - The MarineCommander has the capability to be connected to compatible Icom VHF transceivers.* Various types of DSC calls, including individual, group, all ship, position and polling request*, can be initiated from the MarineCommander. Received DSC messages and position information can be shown on the plotter display.

  *DSC call types available are dependent on VHF transceiver capability.

**Sounder Screen**

**Graphic Screens**

**AIS Details shown on the plotter screen**

**Waypoint distance, depth and temperature at the gone**

**Additional data for waypoints**

- **VHF Transceiver**

  - The MarineCommander has four video input ports with RCA connectors for connecting up to 4 surveillance video cameras (NTSC or PAL format) and allows you to monitor surroundings and crew members on the MarineCommander display.

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Wiring Diagram

Explanatory notes
- Data cable
- Display cable
- Radar system cable
- Transducer cable
- GPS cable
- NMEA 0183
- NMEA 2000

Option Cables

EX-3187 Display extension cable (5m; 16.4ft)
Up to three EX-3187 cables are connectable.

OPC-1895 Data cable (20m; 65.6ft)
For connection from MPU to radar or fish finder and between MPU and MPU.

OPC-1929 Transducer extension cable (6m; 19.7ft)
Radar system cables for connection between radar main unit and scanner unit.
OPC-2339 is for MXR-5000R only.

OPC-2339 (30m; 98.4ft) Radar system cables for connection between radar main unit and scanner unit.

OPC-2340 (30m; 98.4ft) Radar system cables for connection between radar main unit and scanner unit.

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This product includes software (part of tcp_wrappers) developed by the University of California, Berkeley. This product includes software developed by the University of California, Berkeley and its contributors.

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