

Collision Risk Management with Simplified ARPA and DSC/AIS Information



User color setting



Day setting



Night setting

- Built-in simplified ARPA* function plots and tracks up to 10 vessels/objects
- DSC information function* displays received DSC information with status icons
- AIS overlay function* shows received vessel information
- 176° (approx.) wide viewing angle color TFT LCD (480×640 dots) with user programmable color settings
- Multiple languages (English, Indonesian, Korean, Spanish, Thai and Vietnamese)
- Intuitive user interface; graphical menu screen and the eight-direction cursor key
- Optional video output unit for a secondary display connection
- Up to 36 NM range observation with 4 kW output radome scanner
- True trail function* shows real movement of other vessels/objects
- 10.2–42 V wide DC input to prevent over voltage damage

* External bearing, speed, position, waypoint, variation, AIS and DSC data is (are) required, when you use the radar functions.

Simplified ARPA (Automatic Radar Plotting Aids) Function*

The simplified ARPA function plots and tracks ten vessels/objects (including up to five automatically) for collision risk management. When targets enter within the CPA and TCPA limits, a warning message is displayed with a beep alarm.

DSC (Digital Selective Calling) Information Function*

When connected to an external DSC radio and a DSC call is received, the received message is transferred to the MR-1010RII. Up to 20 DSC messages can be plotted on the radar echo. If a MOB position information is transmitted from a DSC handheld transceiver (including Icom IC-M93D), the MR-1010RII can show the MOB waypoint on the radar echo to assist in search and rescue operation.



IC-M93D

AIS (Automatic Identification System) Overlay Function*

When connected to an external AIS device (including Icom IC-M605 and IC-M506), up to 100 AIS target icons are overlaid on the radar echo. By selecting an AIS icon, vessel information such as AIS Class, MMSI number, Vessel name, Course, Speed, CPA, TCPA, bearing and distance are shown on the lower side of the display.

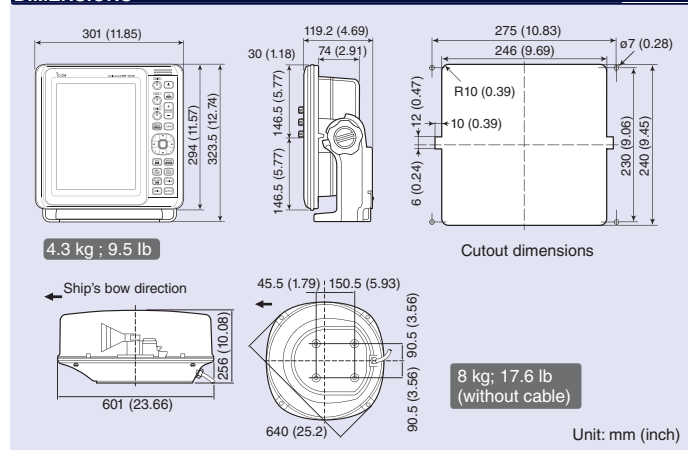


IC-M605

Multi-lingual Intuitive User Interface

The language setting of the MR-1010RII is selectable from English, Indonesian, Korean, Spanish, Thai and Vietnamese. The large eight-directional cursor key provides smooth operation even when wearing gloves. Various settings can be configured through visually intuitive operation.

* External bearing, speed, position, waypoint, variation, AIS and DSC data is (are) required, when you use the radar functions.

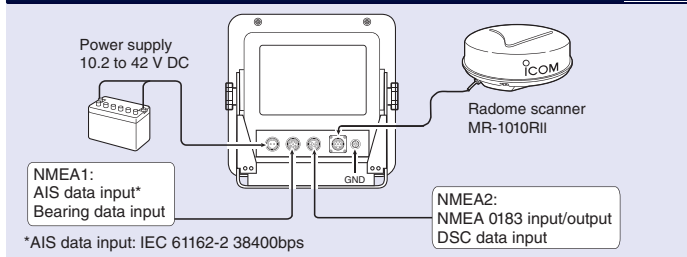
DIMENSIONS**SPECIFICATIONS**

DISPLAY UNIT	
Display type	10.4-inch Color TFT LCD
Resolution	480 x 640 dots
Minimum range	25 m; 82 ft (at 1/8 NM range)
Maximum range	36 NM
Range scales	NM: 1/8, 1/4, 1/2, 3/4, 1, 1.5, 2, 3, 4, 6, 8, 12, 16, 24, 32, 36 km: 1/4, 1/2, 3/4, 1, 1.5, 2, 3, 4, 6, 8, 12, 16, 24, 32, 36, 48
Preheat time	90 seconds
Power supply	10.2–42 V DC
Power consumption	55 W (approximately) (at zero wind velocity)
Usable temperature range	–15°C to +55°C; +5°F to +131°F
Input data format	NMEA 0183, N+1, AUX, IEC61162-2
Output data format	NMEA 0183
SCANNER UNIT	
Type	60 cm; 2 ft radome scanner
Rotation speed	24, 36 rpm typ.
Horizontal beamwidth	4° typ.
Vertical beamwidth	22° typ.
Sidelobe	–22 dB typ.
Usable temperature range	–25°C to +70°C; –13°F to +158°F
Usable humidity range	Less than 95% (at 40°C; +104°F)
Frequency	9410 MHz ±30 MHz P0N
Peak output power	4 kW
Pulse-width/repetition rate	80 ns/2160 Hz, 80 ns/1440 Hz, 250 ns/1440 Hz, 350 ns/1440 Hz, 350 ns/720 Hz, 900 ns/720 Hz
Modulator	FET switching
Intermediate frequency	60 MHz
IF bandwidth	10 MHz, 3 MHz
Tuning	Auto/manual selectable
Supplied system cable	10 m; 32.8 ft; OPC-2381

All stated specifications are subject to change without notice or obligation.

Applicable IP Rating

Ingress Protection Standard		
Display unit	IPX4 (Water resistance)	Scanner unit
		IPX6 (Powerful jet water protection)

REAR PANEL VIEW**OPTIONS****SYSTEM CABLES****VIDEO OUTPUT UNIT**

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