0 ICOM

MR-1010RI

MARINE RADAR

Collision Risk Management with Simplified ARPA and DSC/AIS Information

Simplified ARPA Function*DSC Information Function*

AIS Overlay Function*

10.4- inch Color TFT Display (480×640 dots)

Multiple Languages (English, Indonesian, Korean, Spanish, Thai and Vietnamese)

Intuitive User Interface

Optional Video Output Unit

36 NM Range Observation with 4 kW Output Radome Scanner

ICOM

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



Simplified ARPA, Wide Viewing Angle Col

Collision Risk Management Functions



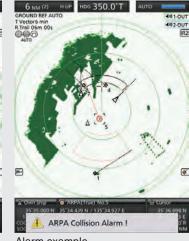
Simplified ARPA (Automatic Radar Plotting Aids) **Function***

The simplified ARPA function helps to prevent a collision risk with other vessels or objects. Up to five targets can be automatically tracked on the radar echo, when a target enters within the set watch area, (or up to ten targets can be tracked when manually set). By selecting one of the targets, the target information such as position, course, speed, CPA, TCPA, bearing, and distance is shown on the lower side of the display. When the target enters within the CPA and TCPA limits, an alarm message is displayed with a beep alarm.

* External bearing, speed and position data required



Simplified ARPA



Alarm example



DSC (Digital Selective Calling) Information Function*

When connected to a 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.

* External bearing, position and DSC data required



AIS (Automatic Identification System) **Overlay Function***

When connected to an external AIS device (including Icom IC-M605 and, IC-M506 AIS), 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. * External bearing, position and AIS data required.



Compatible Icom marine DSC radio example, IC-M605

Wide Viewing Angle Color TFT LCD

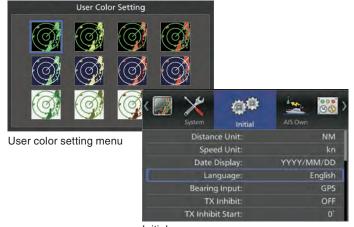
The wide viewing angle color TFT LCD offers bright, vivid echoes with 16 steps gradient intensity. The screen intensity and screen color (day, night and user settings) can be instantly adjusted with the "BRILL" button. In addition, the auto hide information function enlarges radar echoes to full size.





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-direction cursor key provides smooth operation even when wearing gloves. Various settings can be configured through visually intuitive operation.



Night setting

Dav setting

Initial menu

or TFT LCD and Made in Japan Reliability



Received DSC example



Other vessel AIS information



Optional Video Output Unit

With an optional video output unit, UX-252, the MR-1010RII can be connected to an external display. Same radar echoes can be observed on the main unit and external display at the same time.



Video output example

TLL (Target Latitude Longitude) Function*



The MR-1010RII can mark points with icons and transfer the position data with NMEA TLL sentences to other NMEA 0183 devices such as an external plotter.

* External bearing and position data required.

True Trail Function*



The true trail function cancels own ship movement and shows true moving objects with trails, while static objects are not trailed.

* External bearing and position data required.

Other features

- 10.2-42 V wide DC input to prevent over voltage damage
- Two user programmable alarm zones
- Waypoint indication*
- Designed, engineered and Made in Japan
- * External bearing, position and waypoint data required.

MARINE RADAR

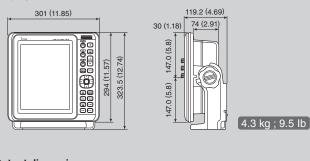
MR-1010RI

SPECIFICATIONS

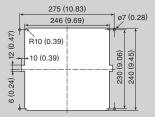
| Display type | | 10.4-inch Color TFT LCD | | |
|--|----|---|--|--|
| Resolution | | 480 × 640 dots | | |
| Minimum range | | 25 m; 82 ft (at $\frac{1}{8}$ NM range) | | |
| Maximum range | | 36 NM | | |
| | NM | ¹ / ₈ , ¹ / ₄ , ¹ / ₂ , ³ / ₄ , 1, 1.5, 2, 3, 4, 6, 8, 12, 16, 24, 32, 36 | | |
| Range scales | 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 (at zero wind velocity) | | 55 W (approximately) | | |
| 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 | | | | |
| Туре | | 60 cm; 2 ft radome scanner | | |
| Rotation speed | | 24, 36, 48 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 | | |
| Modulation | | PON | | |
| 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 | | 15 m; 49.2 ft; OPC-2341 | | |

DIMENSIONS

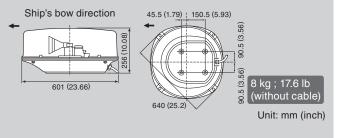
Display unit dimensions

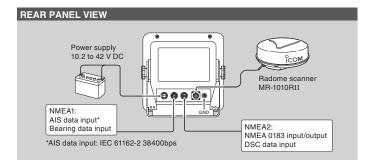


Cutout dimensions



Scanner unit dimensions





OPC-2339 20 m (65.6 ft)

Made in Japan

Quality you can trust

Applicable IP Rating

Display unit IP2
OPTIONS
SYSTEM CABLES

Ingress Protection Standard

IPX4 (Water resistance) Scanner unit

OPC-2340

30 m (98.4 ft)

Made in Japan Quality

Icom has its own manufacturing facilities in Japan. All Icom products are tested to pass rigorous in-house tests as well as environmental tests at the Wakayama Icom plant before shipping.

UX-252

IPX6 (Powerful jet water protection)

VIDEO OUTPUT UNIT

Analog RGB output for

external monitor

Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia, Australia, New Zealand and/or other countries.

| Icom Inc. 1-1-32, Kamimina | ami, Hirano-Ku, Osaka 547-0003, Japan Phone: | www.icomjapan.com | Count on us! | |
|---|--|---|--------------------------------|--|
| Icom America Inc. www.icomamerica.com | Icom (Europe) GmbH www.icomeurope.com | Icom (Australia) Pty. Ltd. www.icom.net.au | Your local distributor/dealer: | |
| Icom Canada www.icomcanada.com | Icom Spain S.L. www.icomspain.com | Icom Asia Co., Ltd. www.icomasia.com | | |
| Icom Brazil E-mail: sales@icombrazil.com | Icom (UK) Ltd. www.icomuk.co.uk | | | |

Icom France s.a.s. www.icom-france.com