

# MR-1000RII

(10-inch CRT, Radome Scanner)

# MR-1000TII

(10-inch CRT, Open Array Scanner)



● 10-inch Display Unit

## New Simplified Automatic Tracking Aid Function Provides Reliable Collision Avoidance

- Powerful 4kW output power
- Two types of scanner units available

**MR-1000TII :**  
120cm open  
array scanner  
observes up to  
48nm



● Open Array Scanner for MR-1000TII

**MR-1000RII :**  
60cm radome  
scanner  
observes up to  
36nm



● Radome Scanner for MR-1000RII

- 8-level bright picture on 10-inch monochrome green CRT
- Simplified Automatic Tracking Aid function  
See overleaf for details.
- External GPS and Compass data input with NMEA0183, N+1, AUX format
- English and Korean indication
- North-up, Course-up, Head-up & True-motion  
Bearing, speed and position data required. Depends on display mode.

**Icom Inc.**

## OTHER FEATURES

- The MR-1000RII/TII provides many useful features : 2 EBL's, 2 VRM's, SEA clutter, RAIN clutter, Off center, Interference reduction, Echo stretch, Zoom, Trail, long pulse and automatic calibration function.
- When connected to the GPS and/or compass, the MR-1000RII/TII displays the following information: Course-up, North-up, True motion indication, own and other vessel's speed, position and course, waypoint and man overboard point.

- Simplified Automatic Tracking Aid allows you to plot up to 10 targets and the radar automatically traces the targets.
- The CPA (Closest Point Approach) and TCPA (Time to CPA) alarm gives an audible warning when the tracking targets come within the set range or time.
- Power saver function pauses the scanning for a preset time and conserves battery consumption. When used with the zone alarm function, the CRT display is turned off until an object enters the programmed alarm zone.

## SPECIFICATIONS

## DISPLAY UNIT

- |                                                                    |                                |                            |                                                                                                        |
|--------------------------------------------------------------------|--------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------|
| • Display type                                                     | : 10" monochrome green CRT     | • Power consumption        | :                                                                                                      |
| • Resolution                                                       | : 640×480 dots                 | MR-1000RII                 | 60W (approx.)                                                                                          |
| • Minimum range                                                    | : 25m (1/8 NM range)           | MR-1000TII                 | 70W (approx.)                                                                                          |
| • Maximum range                                                    | :                              | • Operating temp. range    | : -15°C to +55°C; 5°F to +131°F                                                                        |
| MR-1000RII                                                         | 36NM                           | • Unit of distance         | : NM (nautical mile), km                                                                               |
| MR-1000TII                                                         | 48NM                           | • Dimensions (W×H×D)       | : 269×264×258 mm;                                                                                      |
| • Measurement range                                                | : (unit:NM, * MR-1000TII only) | (projections not included) | 10 <sup>19</sup> / <sub>32</sub> ×10 <sup>13</sup> / <sub>32</sub> ×10 <sup>5</sup> / <sub>32</sub> in |
| 1/8, 1/4, 1/2, 3/4, 1, 1.5, 2, 3, 4, 6, 8, 12, 16, 24, 32, 36, 48* |                                | • Weight (approx.)         | : 6.5kg; 14.3lb                                                                                        |
| • Preheat time                                                     | : 90sec.                       | • Input data format        | : NMEA 0183, N+1, AUX                                                                                  |
| • Power supply                                                     | : 10.2-42V DC                  | • Output data format       | : NMEA 0183                                                                                            |

## SCANNER UNIT

- |                                         |                                                                            |                                                                 |
|-----------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------|
| • Model Name                            | : <b>MR-1000RII</b>                                                        | <b>MR-1000TII</b>                                               |
| • Type                                  | : 60cm slotted waveguide array in radome                                   | 120cm slotted waveguide array                                   |
| • Rotation speed                        | : 24, 36, 48rpm typ.                                                       | 24, 36, 48rpm typ.                                              |
| • Beamwidth                             | Horizontal beam : 4° typ.                                                  | 2° typ.                                                         |
| Vertical beam                           | : 22° typ.                                                                 | 25° typ.                                                        |
| • Sidelobe                              | : -18dB typ.                                                               | -24dB typ.                                                      |
| • Polarization                          | : Horizontal                                                               | Horizontal                                                      |
| • Dimensions (projections not included) | : 607(Ø)×243(H) mm;                                                        | 1205(d)×381(H) mm; 47 <sup>1</sup> / <sub>16</sub> (d)×15(H) in |
|                                         | 23 <sup>29</sup> / <sub>32</sub> (Ø)×9 <sup>9</sup> / <sub>16</sub> (H) in | (Diameter of rotation/height)                                   |
| • Weight (approx.)                      | : 8kg; 17.6lb (without cable)                                              | 17kg; 37.5lb (without cable)                                    |
| • Operating temperature range           | : -25°C to +70°C; -13°F to +158°F                                          | -25°C to +70°C; -13°F to +158°F                                 |
| • Frequency                             | : 9410MHz ±30MHz                                                           | 9410MHz ±30MHz                                                  |
| • Peak output power                     | : 4kW                                                                      | 4kW                                                             |
| • Pulse-width/Reception rate            | : 80nsec./2880Hz, 80nsec./2160Hz,                                          | 80nsec./2880Hz, 80nsec./2160Hz,                                 |
|                                         | 250nsec./2160Hz, 350nsec./2160Hz,                                          | 250nsec./2160Hz, 350nsec./2160Hz,                               |
|                                         | 900nsec./720Hz                                                             | 900nsec./720Hz                                                  |
| • Modulator                             | : FET switching                                                            | FET switching                                                   |
| • Mixer and local oscillator            | : Microwave integrated circuit                                             | Microwave integrated circuit                                    |
| • Intermediate frequency                | : 60MHz                                                                    | 60MHz                                                           |
| • IF passband width                     | : 10MHz, 3MHz                                                              | 10MHz, 3MHz                                                     |
| • Tuning                                | : Auto or manual                                                           | Auto or manual                                                  |
| • System cable                          | : 15m (49.2ft); OPC-1188A                                                  | 20m (65.6ft); OPC-1189A                                         |
|                                         |                                                                            | (Peeled for connection with MR-1000TII.)                        |

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

## OPTIONS



OPC-1077

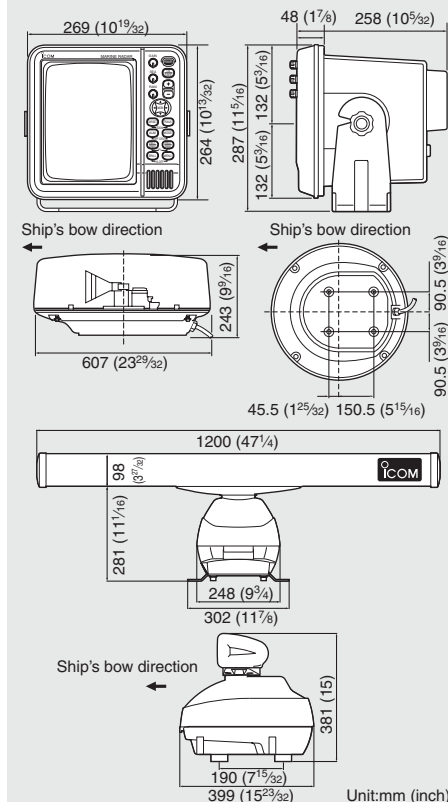
## OPC-1077 SYSTEM CABLE

Allows you 20m (65.6ft) separate installation between the display unit and the scanner unit.

## OPC-1078 SYSTEM CABLE

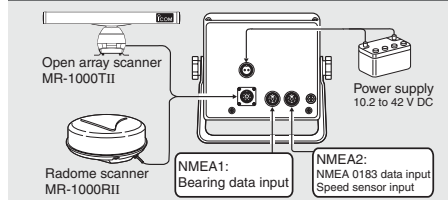
Allows you 30m (98.4ft) separate installation between the display unit and the scanner unit.

## DIMENSIONS



Unit:mm (inch)

## SYSTEM CONNECTION



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