



MARINE RADARS

MR-1200RII

(12.1-inch TFT, 4kW Radome Scanner)

MR-1200TII

(12.1-inch TFT, 4kW Open Array Scanner)

MR-1200TIII

(12.1-inch TFT, 6kW Open Array Scanner)



Easy-to-see large 12.1-inch TFT display assists your safe navigation

- **Three types of scanner units**

MR-1200RII : 36NM range, 4kW radome scanner

MR-1200TII : 48NM range, 4kW open array scanner

MR-1200TIII: 72NM range, 6kW open array scanner



2-foot (60cm) radome scanner
for MR-1200RII



4-foot (120cm) open array scanner
for MR-1200TII/TIII

- **12.1-inch large TFT display (600x800 dots)**
Slim depth (119.2mm) and light weight (4.3kg)
- **Simplified ATA (Automatic Tracking Aid) function**
- **CPA, TCPA and alarm zone functions**
- **English and Korean indication**
- **Head-up, North-up,
Course-up & True motion***

* External bearing, speed and position data required. Depends on display mode.

MARINE RADARS

OTHER FEATURES

- The MR-1200RII/TII/TIII 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 tuning calibration function.
- If a crew member falls overboard, mark the MOB (man overboard) point on the display. The man overboard marker keeps the position on the display and shows the bearing, distance and estimated time to the MOB point*.
- * External bearing, speed and position data are required.
- Simplified ATA (Automatic Tracking Aid) allows you to plot up to 10 targets and the radar automatically tracks 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.
- The desired range and bearing can be set for the alarm zone. If other ships or islands come into the alarm zone, an audible alarm warns of a possible collision, even when the power save function turns the display off.

SPECIFICATIONS

DISPLAY UNIT

- | | | | |
|---|-------------------------|----------------------|----------------------------------|
| • Display type | : 12.1-inch TFT LCD | • Preheat time | : 90 seconds |
| • Resolution | : 600x800 dots | • Power supply | : 10.2-42V DC |
| • Minimum range | : 25m (at 1/8 NM range) | • Power consumption | : (at zero wind velocity) |
| • Maximum range | : | MR-1200RII | 60W (approx.) |
| MR-1200RII | 36NM | MR-1200TII | 70W (approx.) |
| MR-1200TII | 48NM | MR-1200TIII | 80W (approx.) |
| MR-1200TIII | 72NM | | |
| • Range scales (NM) | : | • Usable Temp. range | : -15°C to +55°C; +5°F to +131°F |
| 1/8, 1/4, 1/2, 3/4, 1, 1.5, 2, 3, 4, 6, 8, 12, 16, | | • Input data format | : NMEA 0183, N+1, AUX |
| 24, 32, 36, 48 ¹ , 64 ² , 72 ² | | • Output data format | : NMEA 0183 |
| (*1 MR-1200TII/TIII only *2 MR-1200TIII only) | | | |

SCANNER UNIT

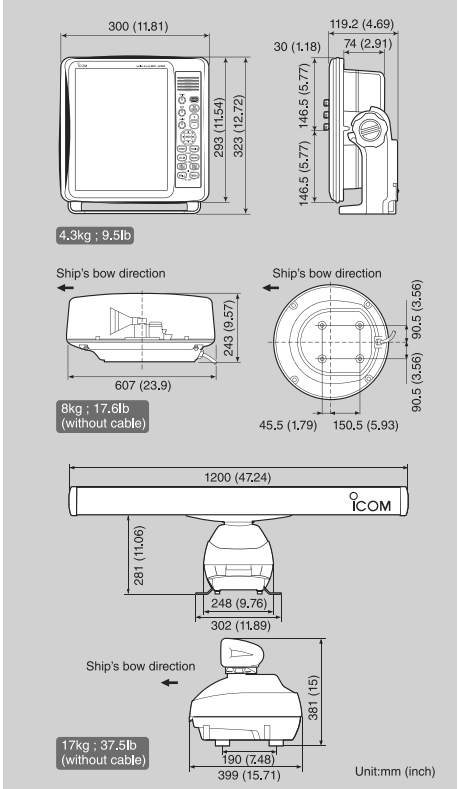
- | | | |
|-----------------------------------|---|---|
| • Model Name | : MR-1200RII | MR-1200TII/MR-1200TIII |
| • Type | : 2ft (60cm) slotted waveguide array, enclosed in a radome | 4ft (120cm) slotted waveguide array |
| • Rotation speed | : 24, 36, 48rpm typ. | 22°, 24, 36, 48rpm typ. * MR-1200TIII only |
| • Beamwidth | Horizontal beam : 4° typ.
Vertical beam : 22° typ. | 2° typ.
25° typ. |
| • Side lobe | : -18dB typ. | -24dB typ. |
| • Usable Temp. range | : -25°C to +70°C; -13°F to +158°F | -25°C to +70°C; -13°F to +158°F |
| • Usable humidity range | : Less than 95% (at 40°C) | Less than 95% (at 40°C) |
| • Frequency | : 9410MHz ±30MHz | 9410MHz ±30MHz |
| • Modulation | : P0N | P0N |
| • Peak output power | : 4kW | 4kW (MR-1200TII),
6kW (MR-1200TIII) |
| • Pulse-width/
repetition rate | : 80nS/2880Hz, 80nS/2160Hz,
250nS/2160Hz, 350nS/2160Hz,
900nS/720Hz | 80nS/2880Hz, 80nS/2160Hz,
250nS/2160Hz, 350nS/2160Hz,
900nS/720Hz, 900nS/660Hz*
* MR-1200TIII only |
| • Modulator | : FET switching | FET switching |
| • Intermediate frequency | : 60MHz | 60MHz |
| • IF bandwidth | : 10MHz, 3MHz | 10MHz, 3MHz |
| • Tuning | : Auto/manual selectable | Auto/manual selectable |
| • Duplexer | : Circulator | Circulator |
| • Supplied system cable | : 15m; 49.2ft; OPC-1188A | 20m; 65.6ft; OPC-1189A |

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

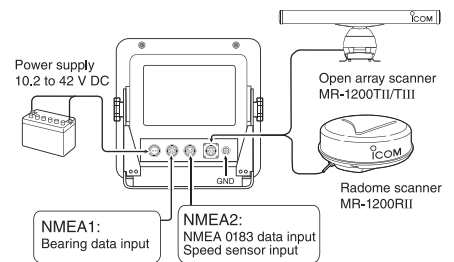
OPTIONS



DIMENSIONS



REAR PANEL VIEW



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