ICOM

MARINE RADARS

MR-1210RⅡ
12.1-inch Color TFT, 4kW Radome Scanner

MR-1210TⅡ
12.1-inch Color TFT, 4kW Open Array Scanner (4 ft model)

MR-1210TⅢ
12.1-inch Color TFT, 6kW Open Array Scanner (4 ft/6.5 ft models)





- 12.1-inch Large Color TFT Display (600×800 dots)
- 4kW Radome Radar (MR-1210RⅡ), 4kW Open Array Scanner (MR-1210TⅡ 4 ft model), 6kW Open Array Scanner (MR-1210TⅢ, 4 ft/6.5 ft models)
- True Trail Function *1
- AIS Overlay Function*2
- Simplified ATA Function
- New User Interface
- Optional Video Output Unit

(*1 External NMEA 0183 data and heading sensor required

*2 External AIS data required)

Color Mar





MR-1210RⅡ — 4kW Output 36NM Range



MR-1210TⅡ (4 ft model) — 4kW Output 48NM Range

MR-1210TⅢ (4 ft model) — 6kW Output 72NM Range

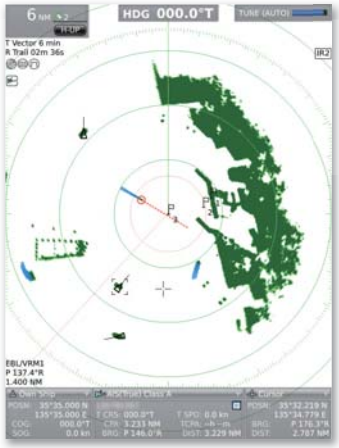


MR-1210TⅢ (6.5 ft model) — 6kW Output 72NM Range

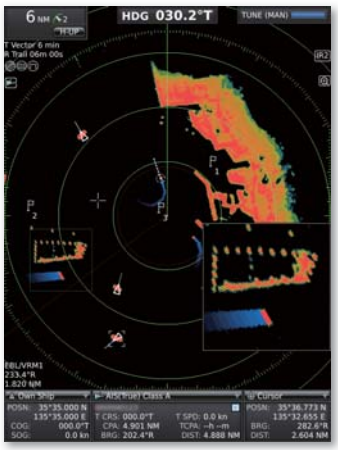
MARINE RADARS
MR-1210RⅡ·MR-1210TⅡ/ TⅢ

12.1-inch Color TFT Display (600×800 dots)

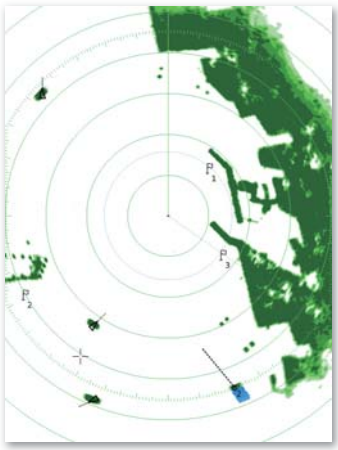
The 600cd/m² color TFT offers bright, vivid echoes with 32 steps gradient intensity. The display intensity and display color (day, night and user settings) can be instantly adjusted with the "BRILL" button. The full screen mode enlarges radar echoes to full size with transparent menus and operating information.



Day setting



Night setting



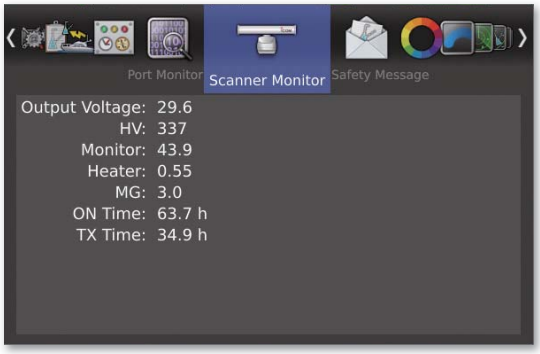
Full screen mode

New User Interface

The MR-1210 provides consistent menu structure and the operator can configure various settings via visually intuitive operation. The language setting is selectable from English, Spanish, Vietnamese, Indonesian and Korean.



Color setting menu



Scanner monitor menu

ine Radar with AIS Overlay Functions

Stabilized Head Up Mode*

When turning your own boat, the radar echo smoothly follows the boat movement without delay.

*External heading sensor (NMEA 0183, N+1 or other formats) required.

TLL (Target Latitude Longitude) Function*

The MR-1210 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 NMEA 0183 data and heading sensor required.

True Trail Function*

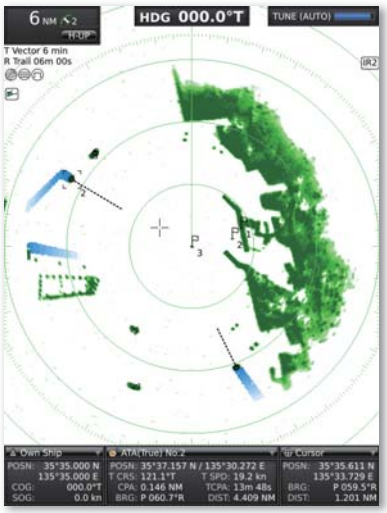
The true trail function cancels own ship movement and shows true moving objects with trails, while static objects are not trailed. The fine trail function allows you to select trail lines from normal, fine or extra fine trail.

*External NMEA 0183 data and heading sensor required.

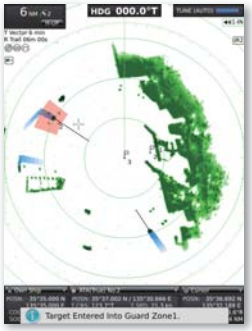
Simplified ATA (Automatic Tracking Aid)*

The simplified ATA function allows you to track up to 10 vessels with symbol icons. The CPA (Closest Point of Approach) and TCPA (Time to Closest Point of Approach) limits can be calculated and give an audible warning when any of the target vessels comes within the set range or time.

*External NMEA 0183 data and heading sensor required.



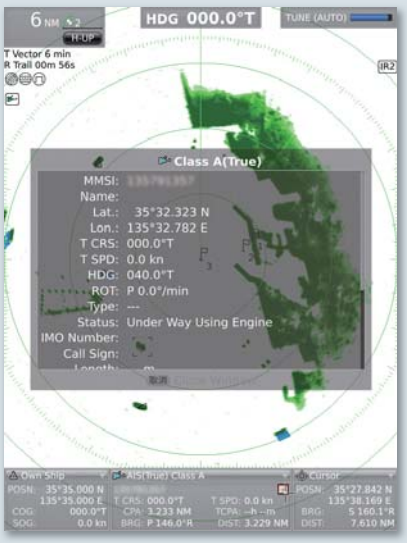
Simplified ATA



Guard zone alert example

AIS (Automatic Identification System) overlay function*

When connected to an external AIS receiver or AIS transponder, the MR-1210 overlays the received AIS information on the radar echo. You can see up to 100 AIS targets and check detailed information of the individual vessel such as speed, course, heading, vessel type and size.



Other vessel AIS information



Own vessel information

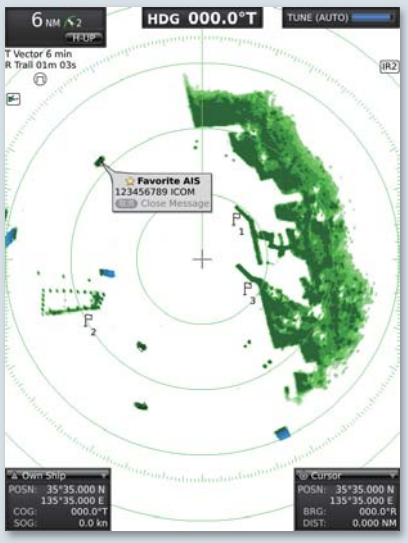


AIS list

Favorite AIS*

The favorite AIS function notifies you when a “friend boat” comes into a preset range. You can easily follow the movement of the boat position on the radar display. Up to three “friends boats” are programmable.

*External AIS data required.



Favorite AIS

MR-1210RII·MR-1210TII/TIII

SPECIFICATIONS

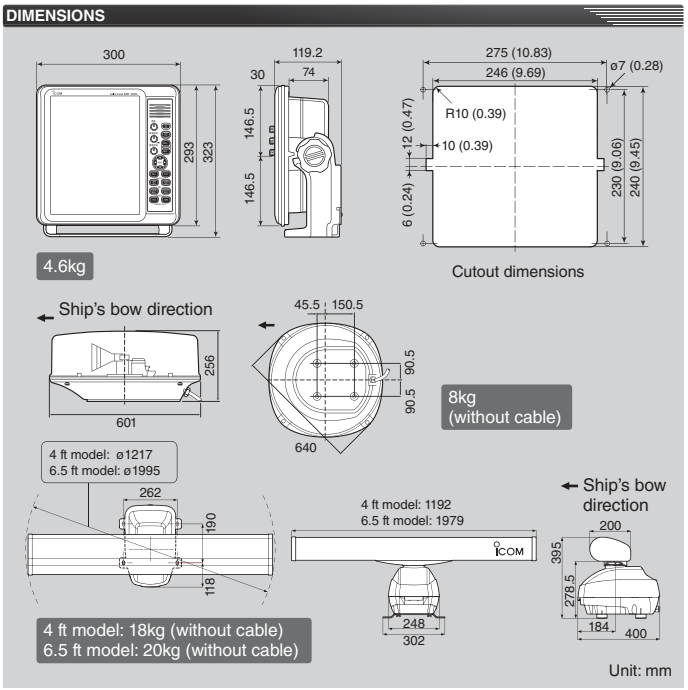
DISPLAY UNIT	MR-1210RII	MR-1210TII (4 ft model)	MR-1210TIII (4 ft model)	MR-1210TIII (6.5 ft model)
Display type	12.1-inch TFT color LCD			
Resolution	600×800 dots			
Minimum range	25m (at 1/8 NM range)			
Maximum range	36NM	48NM	72NM	
Range scales (NM)	1/8, 1/4, 1/2, 3/4, 1, 1.5, 2, 3, 4, 6, 8, 12, 16, 24, 32, 36, 48*1, 64*2, 72*2 (*1 MR-1210TII/TIII only *2 MR-1210TIII only)			
Preheat time	90 seconds			
Power supply	10.2–42V DC			
Power consumption (at zero wind velocity)	60W (approx.)	70W (approx.)	80W (approx.)	90W (approx.)
Usable Temp. range	–15°C to +55°C			
Input data format	NMEA 0183, N+1, AUX, IEC61162-2			
Output data format	NMEA 0183			
SCANNER UNIT	**MR-1210RII**	**MR-1210TII**	**MR-1210TIII**	
Scanner type	2 ft (60 cm) radome scanner	4 ft (120 cm) open array scanner	4 ft (120 cm) open array scanner	6.5 ft (200 cm) open array scanner
Rotation speed	24, 36rpm typ.	24, 36rpm typ.	22, 24, 36rpm typ.	
Horizontal beamwidth	4°typ.	2°typ.	2°typ.	1.2°typ.
Vertical beamwidth	22°typ.	23°typ.	23°typ.	23°typ.
Side lobe	–22dB typ.	–24dB typ.	–24dB typ.	–27dB typ.
Usable Temp. range	–25°C to +70°C			
Usable humidity range	Less than 95% (at 40°C)			
Frequency	9410MHz ±30MHz			
Modulation	P0N			
Peak output power	4kW	4kW	6kW	
Pulse-width/ repetition rate	80nS/2160Hz, 80nS/1440Hz, 250nS/1440Hz, 350nS/1440Hz, 350nS/720Hz, 900nS/720Hz, 900nS/660Hz* (* MR-1210TIII only)			
Modulator	FET switching			
Intermediate frequency	60MHz			
IF bandwidth	10MHz, 3MHz			
Tuning	Auto/manual selectable			
Supplied system cable	15m; 49.2ft; OPC-2341	20m; 65.6ft; OPC-2342		

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

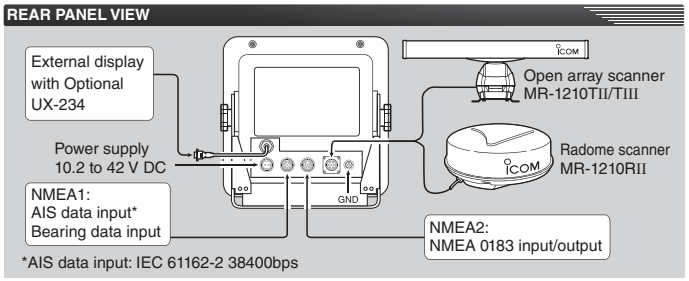
Applicable IP Rating

Ingress Protection Standard			
DISPLAY UNIT	IPX4	SCANNER UNIT	IPX6

DIMENSIONS



REAR PANEL VIEW



OPTIONS

SYSTEM CABLES



OPC-2339
20m (65.6ft) SYSTEM CABLE

OPC-2340
30m (98.4ft) SYSTEM CABLE

VIDEO OUTPUT UNIT



UX-234
Analog RGB output for external monitor

CLASS B AIS TRANSPONDER



MA-500TR

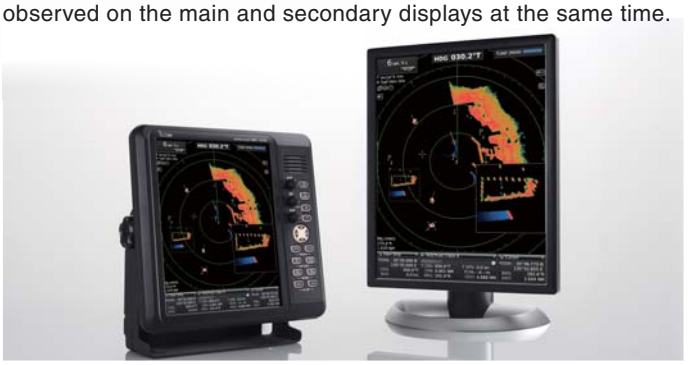
AIS RECEIVER



MXA-5000

Optional Video Output Unit

With an optional video output unit, UX-234, the MR-1210 can be connected to an external display. Same radar echoes can be observed on the main and secondary displays at the same time.



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