FURUNO®

15-INCH MULTI-COLOR HIGH-PERFORMANCE RADAR Models FR-1505/1510/1525 MARK-3

- Daylight-bright 15-inch multi-color, high-resolution display
- Logarithmic amplifier receiver
- **16-level yellow or green display with day** and night color pallette
- Dual EBLs and VRMs, with floating origin
- Head-Up, Course-Up, North-Up or Headup True Bearing and True Motion modes
 - True or relative echo trails Two target alarm zones

- **10-target Electronic Plotting Aid (EPA)** with true or relative vectors
- Two user-programmable function keys for one-touch optimized radar setting
- Optional 20-target Auto Plotter ARP-17 (ATA)
- Optional Video Plotter RP-17
- Optional interface board to provide video output for external monitor
- Optional 42 rpm gearbox available







[®] The future today with FURUNO's electronics technology. FURUNO ELECTRIC CO., LTD. 9-52 Ashihara-cho, Nishinomiya City, Japan Telephone: +81 (0)798 65-2111 Telefax: +81 (0)798 65-4200, 66-4622, 66-4623 Catalogue No. R-171b

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Advanced video processing techniques to enhance detection capability on both short and long ranges shown on a 15-inch FURUNO high-resolution display



6.5 ft antenna (4 or 8 ft available)

FR-1505 MARK-3: 6 kW FR-1510 MARK-3: 12 kW FR-1525 MARK-3: 25 kW

Complies with the following regulations and standards

- IMO Resolutions MSC. 64 (67) Annex 4
- IEC 60936-1 Shipborne radar standard
- IEC 60945 General requirements
- IEC 60872-2 ATA (Optional ARP-17 required)

The FURUNO FR-1505/1510/1525 MARK-3 X-band radars will reinforce Furuno's long established tradition of high performance and reliability. They meet the exacting international and national performance standards for use on ships requiring a radar with the display diameter of 180 mm. The Video Plotter RP-17 is available when Radar Mapping function is also required.

The 1505/1510/1525 MARK-3 employ advanced video processing techniques for improved noise rejection and automatic clutter suppression. They also feature clearly distinguished target trails from real targets by different color tones and accurate plotting, manually or automatically.

Five presentation modes are available: Head-up, Course-up, North-up, Head-up true bearing and True Motion with appropriate heading and speed data in IEC 61162 format.



A wide choice of antenna types is offered to meet the varying needs of individual installations. A highspeed scanner (42 rpm) is optionally available instead of standard 24 rpm.

Standard features include dual VRMs/EBLs where No.1 EBL may be off-centered and has a range marker on it, true/relative target trails, echo stretch, two target alarm zones, trackball for direct range/bearing readout, EPA, quick restart of transmission in case of accidental power-off, etc.

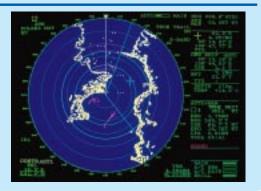
Two target alarm zones can be set in any sector at a desired range. Visual and audible warnings are produced to warn of a target entering the target alarm zone or preset CPA/TCPA zone.

The standard EPA (Electronic Plotting Aid) permits you to plot up to 10 targets. For SOLAS Convention ships, the Auto Plotter ARP-17 (ATA) and Video Plotter RP-17 are optionally available.

Powerful Standard Features

True or Relative Target Trails

Provided with ship's heading and speed data, the FR-1505/1510/ 1525 MARK-3 present true echo trails which permit intuitive recognition of surrounding situation without smearing of stationary targets, such as land. Relative echo trails are useful for identifying a target on a collision course. The echo trails are displayed in monotone or multilevel shading with a trail length selected between 15 s and 30 min, or continuously.

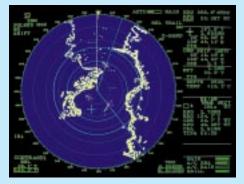


Radar Plotting Facilities

The new IMO Resolution defines 3 types of radar plotting facilities: Electronic Plotting Aid (**EPA**), Automatic Tracking Aid (**ATA**) and Automatic Radar Plotting Aid (**ARPA**). All these Plotting Aids generate CPA and TCPA and

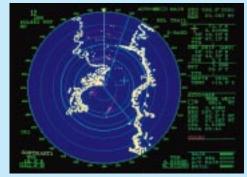
collision alerts, complying with all IMO and IEC standards. The FR-1505/1510/1525 MARK-3 provide EPA and ATA*. * with optional ARP-17

EPA (Electronic Plotting Aid)



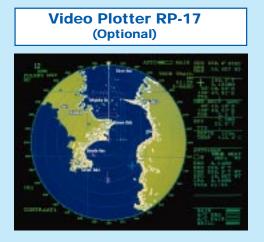
Electronic plotting of 10 targets according to the new IMO and IEC standards. Automatically redraw vectors between manual plots, drops off vectors if not plotted more than 10 min as required by IMO/IEC.

Automatic Tracking Aid (ATA) ARP-17 (Optional)



The Auto Plotter ARP-17 automatically tracks up to 20 targets acquired manually or automatically, presents target data, and triggers a collision alarm for the target on a collision course.

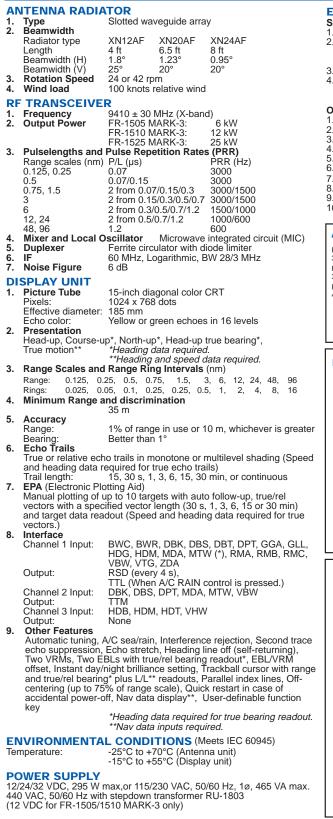
Target acquisition:	Automatic or manual acquisition of up to 20 targets in 0.2-32 nm
Tracking range:	0.1-32 nm
Vector length:	0.5, 1, 3, 6, 15, 30 min, true or relative
Audio-visual alarm:	Produced against lost targets and threatening
	targets
Target data display:	Range, bearing, course, speed and CPA/TCPA
	of a chosen target
	Note: ARP-17 can be used for 24 rpm scanner only.



The Video Plotter RP-17 provides radar maps and storage of navigation events on two IC cards - a memory card (RAM) for storing the operator-created radar maps and a chart card (ROM) storing FURUNO made digital charts. The memory card retains operatorcreated radar maps of a maximum of 3,000 points. A radar map is a combination of map lines and symbols whereby the user can define and input the navigation data, route planning and monitoring data. The chart card (ROM) can drive the Electronic Reference Chart (ERC) - digital chart published by the Japanese Hydrographic Bureau. Nav lines, coastlines, buoys, etc. produced by operator by 3000 points in Radar mode, 6000 points with 98 waypoints and 10 routes on IC card in Chart mode at intervals of 0-30 s.

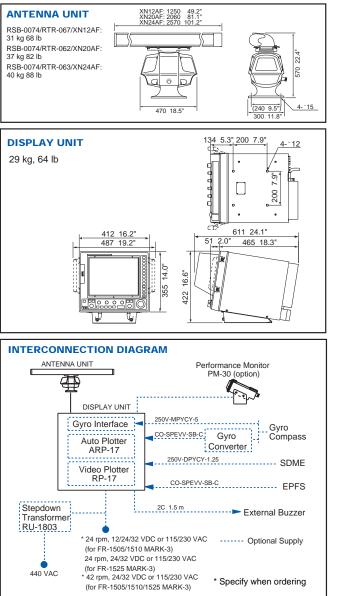
Map area:	0.125 to 96 nm		
Latitude limits:	85°N to 85°S		
Plot interval:	0 to 30 s or 0 to 9,99 nm		
Memory:	Chart mode:	6000 points for track points and	
		marks, 98 waypoints, 10 routes.	
	Radar map mode:	3000 points	

SPECIFICATIONS OF FR-1505/1510/1525 MARK-3



EQUIPMENT LIST

- Standard Display Unit RDP-119 with sun visor (DC or AC) Antenna Unit 1. 1 unit 2. 1 unit
- Scanner: RSB-0074 (24 rpm) or RSB-0075 (42 rpm) Transceiver: RTR-067 (6 kW), RTR-062 (12 kW) or RTR-063 (25 kW) Antenna Cable 15, 20, 30 m (specify) 1 pc 1 pc.
- Standard spare parts and installation materials 1 set 4 (Specify model number, power supply, antenna type and rpm, and length of antenna cable when ordering.)
- Optional
- Power Cable CVV-S8x2C 15 m (for DC set) 1 Stepdown transformer RU-1803 (for 440 VAC, 50/60 Hz, 1ø mains)
- 2. 3.
- External Alarm Buzzer OP03-21 Gyro Interface GC-8 (built-in type) Gyro Converter AD-100 Video Plotter RP-17 (built-in type) 4.
- 5. 6.
- Auto Plotter ARP-17 (ATA) For 24 rpm scanner only. Performance Monitor PM-30 7
- 8.
- Handgrips
- 10.Interface Kit for connection of XGA monitor OP03-153



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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Camas, Washington, U.S.A. Phone: +1 360-834-9300 Telefax: +1 360-834-9400 FURUNO (UK) LIMITED Denmead, Hampshire, U.K. Phone: +44 2392-230303 Telefax: +44 2392-230101 FURUNO FRANCE S.A. Bordeaux-Mérignac, France Phone: +33 05 56 13 48 00 Telefax: +33 05 56 13 48 01 FURUNO ESPAÑA S.A.

FURUNO U.S.A., INC.

Madrid, Spain Phone: +34 91-725-90-88 Telefax: +34 91-725-98-97

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FURUNO DANMARK AS

FURUNO SUOMI OY

Hvidovre, Denmark Phone: +45 36 77 45 00 Telefax: +45 36 77 45 01

FURUNO NORGE A/S Ålesund, Norway Phone: +47 70 102950 Telefax: +47 70 127021

FURUNO SVERIGE AB Västra Frölunda, Sweden Phone: +46 31-7098940 Telefax: +46 31-497093

Helsinki, Finland Phone: +358 9 317277 Telefax: +358 9 3412930

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