10.4" Multi-Color LCD RADAR **MODEL 1937**

SPECIFICATIONS OF MODEL 1937

, З,

4

Symbols:

ANTENNA RADIATOR

Type Slotted waveguide array Antenna Length and Rotation Speed Open 120 cm (XN12A) 48 RPM Wind Load 70 kn relative wind Hor. 1.9°, Vert. 22° Beamwidth **RF TRANSCEIVER** 9410 ± 30 MHz (X-band) Frequency **Output Power** 4 kW DISPLAY 10.4" color LCD Screen Size **Pixel Number and Screen Resolution** 640 (V) x 480 (H), VGA **Effective Diameter** 158 mm Echo Colors 32 levels **Display Modes** Head-up, Course-up*, North-up*, True

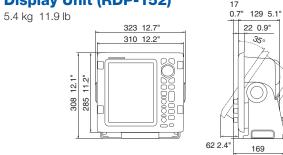
* Heading data required ** Heading and position data required Range Units nm, sm, km Range Scales and Range Ring Intervals (nm)

	,
Range:	1/16, 1/8, 1/4, 1/2, 3/4, 1, 1.5, 1.6, 2,
	3.2, 4, 6, 8, 12, 16, 24, 32, 36, 48
Rings:	1/32, 1/16, 1/8, 1/4, 1/2, 0.8, 1, 2, 3,
	6, 8, 12
Minimum Range	16 m
Range Discrimination	15 m
Echo Trails	
Туре	True or relative trails
Trail Length:	15, 30 sec., 1, 3, 6, 15, 30 min.,
	or continuous Trail
Trail Width:	Narrow, Normal
Plotting Facilities (Required optional board ARP-11)	
Acquisition:	Auto, Manual

view*, True motion**

Number of Targets: 10 targets max.

Display Unit (RDP-152)



Madrid, Spain

www.furuno.e

Hvidovre, Denmark

www.furuno.dk

sund. N

www.furuno.nc

Antenna Unit (XN12A) 25 kg 55.1 lb





169 1255 49.4 FURUNO Fixing holes ⇒ BOW 250 9.8" Cable entry Ø25 340 13.4" 200 7.9"

Selected, Lost targets Number of Targets: 100 targets max. **INTERFACE** AD-10 or IEC 61162 NMEA0183 Input Ver. 1.5/2.0/3.0 IEC 61162 NMEA0183 Ver. 1.5/2.0/3.0 Output **ENVIRONMENT** Temperature Antenna Unit: -25°C to +55°C (-13°F to +131°F) -15°C to +55°C (5°F to +131°F) Display Unit: Waterproofing Antenna Unit: IEC60529 IP26 Display Unit: IEC60529 IP55 **POWER SUPPLY** 12-24 VDC: 8.1-3.8 A **EQUIPMENT LIST** Standard 1. Display Unit 2. Antenna Unit 5, 10, 15, 20 or 30 m 3. Antenna Cable 4. Power Cable 5 m 5. Installation Materials and Spare Parts Option ARP-11 1. Auto Plotter 2. Rectifier RU-3423 OP03-21 3. External Alarm Buzzer 4. Interface Cable MJ-B24LPF0010 10, 20, or 30 m MJ-A7SPF0007-050C 5 m

MJ-A6SPF0007-100C 10 m MJ-A10SPFW0001+R 0.2 m

AIS Functions (Data input from AIS is required)

Sleeping, Activated, Dangerous,

1 unit

1 unit

1 pc

1 pc.

1 set

INTERCONNECTION DIAGRAM Antenna Unit Satellite Compass SC-30*/50/110 MJ-A6SPF0007-100C Heading Sensor MJ-B24LPF0005 5/10/15/20/30 n PG-500 Gvro Converter AD-100 Gyrocompass GPS Navigator, AIS MJ-A7SPF0007-050C Sounding Equipment MJ-A7SPF0007-050C GPS Navigator, AIS Jisplay (Sounding Equipment ARP-11 MJ-A10SPFW MJ-A7SP External Alarm Buzze 0007-0500 MJ-B24 Remote Display Rectifier 12-24 VDC 100/110/115/ *For further info, contact our depot 220/230VAC Option or local supply

All brand and product names are registered trademarks, trademarks or service marks of their respective holders. SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

FURUNO SVERIGE AB FURUNO ELECTRIC CO., LTD. FURUNO ESPAÑA S.A. **FURUNO DANMARK AS** FURUNO FINLAND OY Espoo, Finla www.furuno.f FURUNO POLSKA Sp. Z o.o. **FURUNO NORGE A/S** Gdynia, Polan

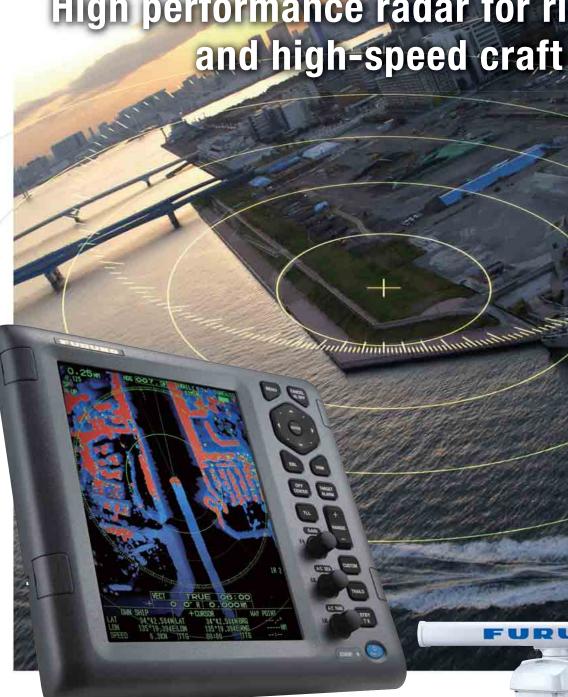
www.furuno.pl

FURUNO DEUTSCHLAND GmbH FUBUNO FUBUS LLC FURUNO HELLAS LTD.

4- Ø15

09063U Printed in Japan SOYINK

Catalogue No. R-197



Havant, Ha FURUNO FRANCE S.A.S.

FURUNO (UK) LIMITED

vww.furuno.fr

FURUNO U.S.A., INC

Camas, Washington, U.S.A

www.furuno.co.i

www.furunousa.co



10.4" Multi-Color LCD RADAR MODEL 1937

High performance radar for river use antantantantantantant FURUNO

www.furuno.com

Setting a New Standard in Close-Range **Radar Performance**

CANCEL IN OFF

TARGET

OFF-

suited for the vessels sailing in narrow areas such as rivers. The radar features a high speed antenna rotation providing faster update rate of the radar image which gives the operator an earlier notification to avoid corruption.

Furuno's MODEL 1937 is a high contrast 10.4" color LCD Rada

Thanks to its state-of-the-art signal/graphics processing technology together with automatic gain and anti-clutter controls, the Radar also features substantial increases in target detection, particularly in close range in order to observe the surroundings at congested areas.

A wide variety of display modes are available, which will assist with safe navigation. The operator can select and customize a display mode to suit their needs.

The radar can be inter-connected with other navigation equipment, such as satellite compass, chart plotters and sounders using NMEA0183 format, which gives operators the ability to expand their boat's system as needed.



Superb detection in Close-Range

FURUNO

- ▶ High speed antenna rotation (48 rpm) for faster update of radar image
- Easy-to-install 10.4" portrait color LCD (350 cd) display
- Bonded LCD provides clear view in all weather conditions
- Stable AIS/ARPA target-tracking with zoom display function
- Full Screen Mode lets operators observe a wider range around the vessel
- Enhanced auto tuning/gain/anti-clutter controls

Superb Discrimination in Close-Range

With its advanced signal processing technology, the MODEL 1937 demonstrates substantial increases in target detection, particularly in close range.

> Radar clearly displays the landscape with clarity and separation. The photo taken at Ariake Bay, Japan where seaweed is harvested

AIS / ARPA Display*

Up to 100 AIS and 10 ARPA targets can be tracked and overlaid on the Radar screen to assist the operator in tracking vessel movements. AIS provides a means for ships to exchange ship data including: identification, position, course, and speed, with other nearby ships and VTS stations. Since AIS works by a VHF transceiver system, unlike ARPA targets, AIS targets are visible even if they are located behind large ships or islands. * Optional supply required



Target Zoom

A specified target is tracked and magnified in a zoom display while its detailed movements are tracked by AIS or ARPA



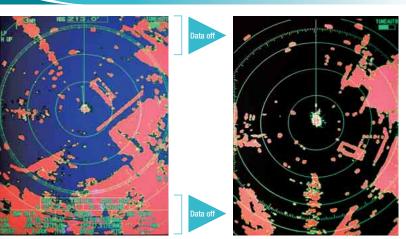
Target acquired and tracked.

Full Screen Mode

With Full Screen Mode, the entire screen is filled with an echo image. Full-screen echo presentation capability allows the operator to observe a wider overview of the surrounding area.

There is also an option to clear the navigation data from the Radar display.

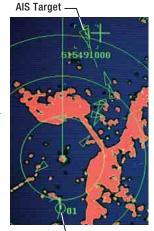
Individual navigation data can be easily toggled ON or OFF from the menu.



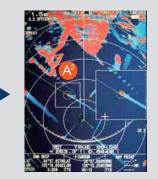




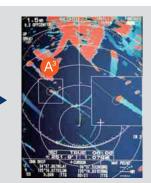
AIS targets can show that a vessel is coming from behind an island, where a Radar beam does not reach



ARPA Target



Target shifts its position.



Zoom box tracks the target object according to its mover

Full screen mode

Full Screen Mode with no NAV data