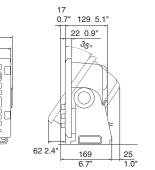
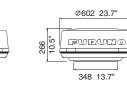
### RDP-152 5.4 kg 11.9 lb 310 12.2"



Fixing holes 4-M10

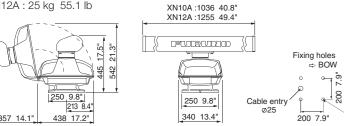
### **Antenna Unit** RSB-0071



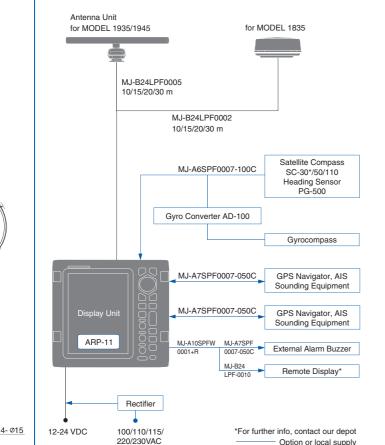








### INTERCONNECTION DIAGRAM



### 10.4 Multi-Color LCD RADAR MODEL 1835/1935/1945

### SPECIFICATIONS OF MODEL 1835/1935/1945

AIS Functions (Data input from AIS is required)

IEC60529 IP26

IEC60529 IP55

12-24 VDC: 4.1-2.0 A

Number of targets: 100 targets max.

INTERFACE

**ENVIRONMENT** 

**Temperature** 

Antenna Unit:

Display Unit:

Waterproofing

**POWER SUPPLY** 

Antenna Unit:

MODEL 1835

**MODEL 1935** 

**MODEL 1945** 

Standard

Option

1. Display Unit

3. Antenna Cable

MODEL 1835

MODEL 1935/1945

4. Power Cable 5 m 1 pc.

1. Auto Plotter ARP-11

MODEL 1935/1945

3. External Alarm Buzzer

MJ-B24LPF0010

MJ-A7SPF0007-050C

MJ-A6SPF0007-100C

MJ-A10SPFW0001+R

**MODEL 1835** 

4. Interface Cable

**EQUIPMENT LIST** 

2. Antenna Unit (Specify when ordering) 1 unit

5. Installation materials and spare parts 1 set

5. Antenna Bracket (for MODEL 1835) OP03-92

Display Unit:

Input

Output

Symbols: Sleeping, Activated, Dangerous, Selected, Lost targets

AD-10 or IEC 61162 NMEA0183 Ver. 1.5/2.0/3.0

IEC 61162 NMEA0183 Ver. 1.5/2.0/3.0

-25°C to +55°C (-13°F to +131°F)

-15°C to +55°C (5°F to +131°F)

12-24 VDC: 6.8-3.3 A for 24 rpm

12-24 VDC: 7.3-3.5 A for 24 rpm

8.2-3.8 A for 48 rpm

8.8-4.1 A for 48 rpm

10, 15, 20 or 30 m 1 pc

10, 15, 20 or 30 m 1 pc

1 unit

PR-62

RU-3423

OP03-21

5 m

10 m

0.2 m

10. 20. or 30 m

#### **ANTENNA RADIATOR**

Type

MODEL 1835 Printed array MODEL 1935/1945 Slotted waveguide array

Length and Rotation Speed

Radome 60 cm (ANT9210) 24 RPM Open 100 cm (XN10A) 24 or 48 RPM **MODEL 1935** Open 120 cm (XN12A) 24 or 48 RPM MODEL 1945

Wind Load (for MODEL 1935/1945)

24 RPM 100 kn relative wind 48 RPM 70 kn relative wind

Beamwidth

ANT9210: Hor. 4.0°, Vert. 20° Hor. 2.4°, Vert. 22° XN10A: XN12A: Hor. 1.9°, Vert. 22°

### **RF TRANSCEIVER**

9410 ± 30 MHz (X-band) Frequency

**Output Power** 

MODEL 1835/1935 4 kW MODEL 1945 6 kW

### DISPLAY

Screen Size 10.4" color LCD Pixel Number 640 (H) x 480 (V), VGA

**Effective Diameter** 158 mm **Echo Colors** 

Display Modes Head-up, Course-up\*, North-up\*,

True view\*. True motion\*7 \* Heading data required

\*\* Heading and position data required

Range Units nm, sm, km

### Range Scales and Range Ring Intervals (nm)

1/16, 1/8, 1/4, 1/2, 3/4, 1, 1.5, 1.6, 2, 3, Range: 3.2, 4, 6, 8, 12, 16, 24, 32, 36, 48\*, 64\*\*

Rings: 1/32, 1/16, 1/8, 1/4, 1/2, 0.8, 1, 2, 3, 4, 6, 8, 12\*, 16\*\*

\* For MODEL 1935/1945 \*\* For MODEL 1945

Minimum Range Range Discrimination 25 m

**Echo Trails** 

Fax: +81 (0)798 65-4200, 66-462

**FURUNO U.S.A., INC.** 

**FURUNO (UK) LIMITEI** 

Havant, Hampshire, U.K. Phone: +44 23 9244 1000 Fax: +44 23 9248 4316

Type True or relative trails Trail Length: 15, 30 sec., 1, 3, 6, 15, 30 min.,

or continuous Trail Trail Width: Narrow, Normal

Number of targets: 10 targets max

Plotting Facilities (Required optional board ARP-11) Acquisition: Auto, Manual

FURUNO ELECTRIC CO., LTD. FURUNO FRANCE S.A.S. FURUNO NORGE A/S Nishinomiya, Hyogo, Japan Phone: +81 (0)798 65-2111 Alesund, Norway Phone: +47 70 102950

Bordeaux-Mérignac, Franc Phone: +33 5 56 13 48 00 FURUNO ESPAÑA S.A. Madrid, Spain Phone: +34 91-725-90-88 Fax: +34 91-725-98-97 **FURUNO DANMARK AS** 

FURUNO POLSKA Sp. Z o.o. **FURUNO SVERIGE AB** 

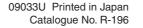
FURUNO FINLAND O

Espoo, Finland Phone: +358 9 4355 670 Fax: +358 9 4355 6710

Gdynia, Poland Phone: +48 58 669 02 20 Fax: +48 58 669 02 21 **FURUNO DEUTSCHLAND GmbH FURUNO EURUS LLC** St. Petersburg, Russian Fe Phone: +7 812 767 15 92 Fax: +7 812 766 55 52



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



TRADEMARK REGISTERED



### FURUNO

## 10.4 Multi-Color LCD RADAR

# MODEL 1835/1935/1945



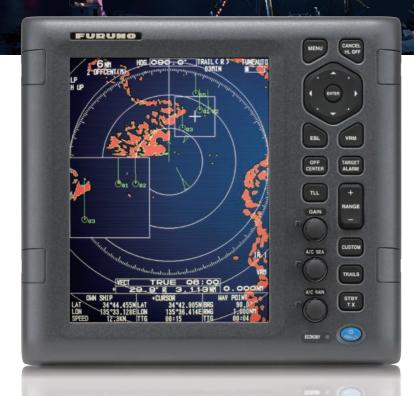
www.furuno.com

# Bringing a New Level of Quality, Operability, and Reliability into Marine Radar.

Furuno's new Radar series, 1835/1935/1945, is a high contrast 10.4" color LCD radar designed for a wide range of vessels including pleasure craft, fishing boats and work boats.

These new Radars offer crystal clear target presentation with automatic Gain, Sea and Rain controls to deliver a noise-free Radar presentation. It features superb detection of even small targets both at short and long ranges. It also incorporates new display modes (ex. True View Mode, Full Screen Mode) which will assist with safe navigation. The 1835/1935/1945 series allows you to see far away objects before they are visible and allows you to see in the dark, fog or during periods of obstructed visibility in any weather condition.

These Radars can be inter-connected with other navigation equipment, chart plotters and sounders, through Furuno's programmable NMEA 0183 interface, which affords operators the ability to expand their boat's system as needed.



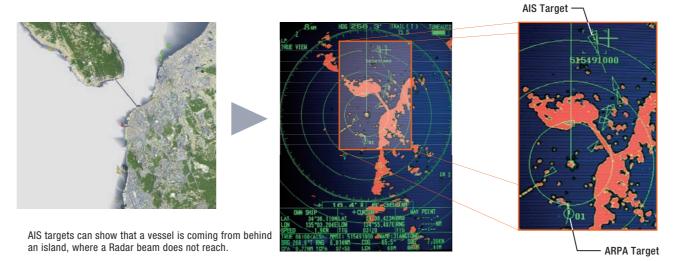


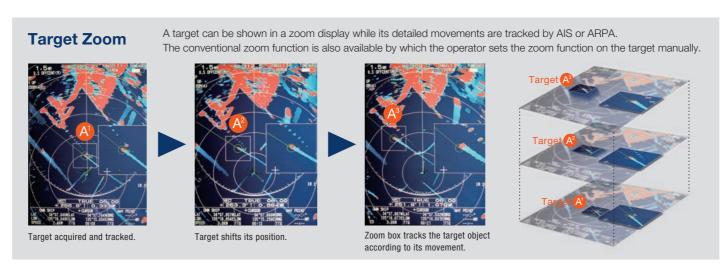
- ► Easy-to-install 10.4" portrait color LCD (350 cd) display
- ▶ Bonded LCD provides clear view in all weather conditions
- ► Stable AIS/ARPA target-tracking with zoom display function
- ► Full Screen Mode lets operators observe a wider range around the vessel
- ► Enhanced auto tuning/gain/anti-clutter controls
- ▶ Echoes in yellow, green, orange or multiple colors

### 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. Since AIS works by a VHF transceiver system, a variety of navigational information such as vessel name, speed, ROT, draft, and the destination of the selected targets can be included in real time. Unlike ARPA targets, AIS targets are visible even if they are located behind large ships or islands.

\*Optional supply required

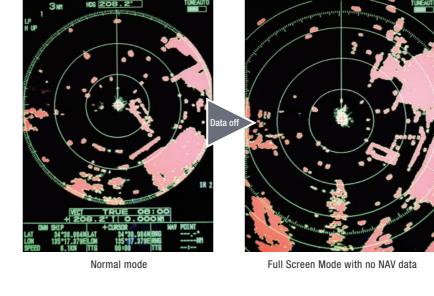




### Full Screen Mode

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.

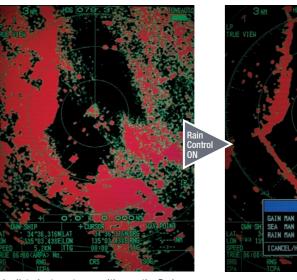


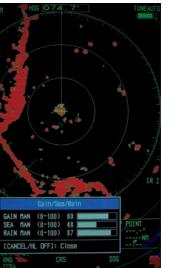


There is also an option to clear the navigation data on the Radar display. Individual navigation data can be easily toggled ON or OFF in the dedicated menu.

### **Anti-Clutter Controls**

Adding to the enhanced auto clutter controls, dedicated rotary knobs are provided for the suppression of unwanted echoes from sea clutter, rain and other forms of precipitation. Anti-clutter settings can be adjusted manually to remove sea and rain clutter from the Radar screen to gain a clearer view of Radar targets.







Featuring dedicated rotary knobs to adjust GAIN/STC/FTC for straightforward operation

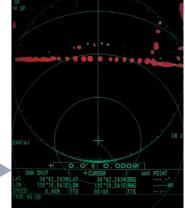
Rain disturbs target recognition on the Radar screen.

### **Short Range Target Discrimination**

With its advanced signal processing technology the 1835/1935/1945 series demonstrates substantial increases in target detection, particularly in close range. As shown in the pictures on the right, the Radar clearly displays thin piers from a

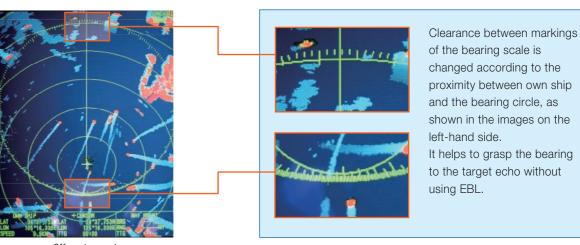


Thin piers standing in front of a beach.



### Off Center Mode

With a push of the "OFF CENTER" button, own ship position is shifted to a pre-registered point on the screen This allows the operator to focus on a specific area ahead of or around the vessel without losing track of the position.



of the bearing scale is changed according to the proximity between own ship and the bearing circle, as shown in the images on the It helps to grasp the bearing to the target echo without