FURUNO

8.4" COLOR LCD RADAR
Model 1815

UHD
Ultra High Definition

AUTO

Target Tracking

AIS

Enhanced Sunlight Viewable
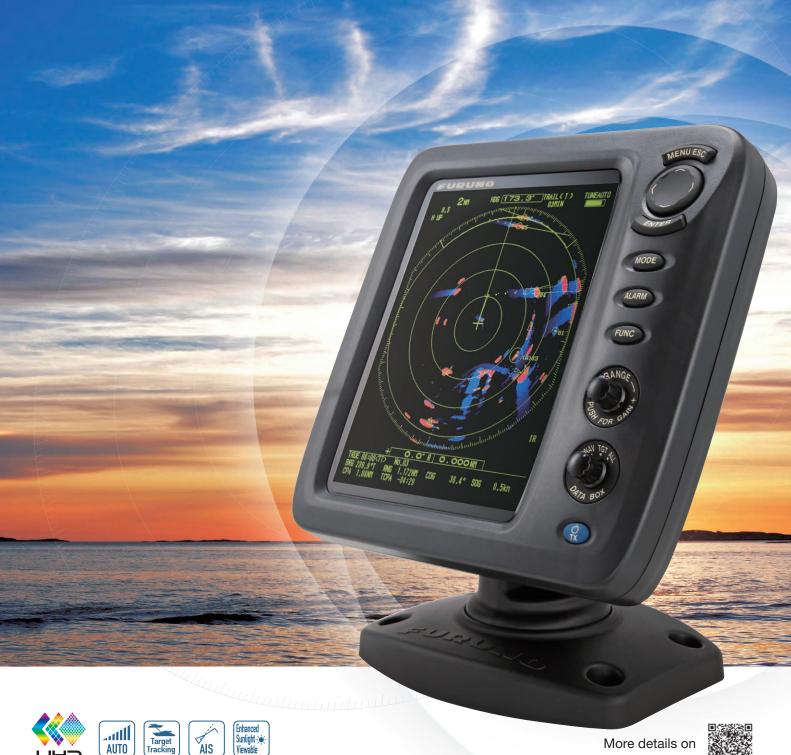
More details on
www.furuno.com

FULLY AUTOMATIC GAIN FOR SIMPLIFIED USE

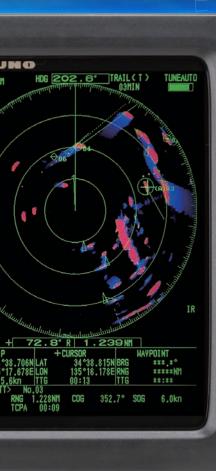## Compact Radar Ensuring Safety at Sea

- ▶ Highly visible display makes it possible for you to recognize surrounding environment at a glance
- ▶ High sensitivity allows you to acquire other vessels, buoys and objects on the sea surface, and coasts
- ▶ Penetrate sudden fog or compensate for poor visibility in stormy weather
- ▶ Reliable coastline images, even in poor visibility
- ▶ Assist sailing in the night with high-sensitivity, reliable analyzing system
- ▶ Echoes and background color/brightness adjustable

- ▶ Compact radome antenna with 4 kW transmitter output power
- ▶ Low power consumption of 38 W at the most
- ▶ Easy installation and intuitive operation
- ▶ Advanced auto-adjust settings for Gain/Sea clutter/Rain clutter
- ▶ Fast Target Tracking™ (TT)
- ▶ True trail mode
- ▶ True motion mode
- ▶ True view mode
- ▶ User-programmable function key
- ▶ Swivel mounting bracket to adjust the angle of the display unit

The MODEL1815 is an 8.4" color LCD radar designed for pleasure craft and small fishing boats. The Radar has easy-to-use, intuitive controls, while maintaining the high performance you expect from FURUNO products. Even in poor visibility such as fog or storms, the radar produces detailed pictures of coastline and targets at short ranges by utilizing narrow pulses and dual IF bandwidths. The waterproof display makes it ideal for exposed installations, such as fly bridges.

The MODEL1815 utilizes our Fast Target Tracking™, True Trail Mode and True View Mode technologies to ensure optimum performance in detecting and ranging targets of interest.

MENU/ESC — Menu settings / Cancel key

Cursor key — Menu selections / Cursor key

ENTER — Enter key / AIS/TT select or acquire

MODE — Select display mode / Measure target

ALARM — Alarm settings / Set Guard zone

FUNC — Function settings: TLL

Rings Brill
Heading Line Brill
Display Color
Echo Color
Display Mode
Data Box
Trail Time
Trail Erase etc.

RANGE / PUSH FOR GAIN — Select range scale / Adjust GAIN control / Reduce SEA/RAIN clutter

DATA BOX (OFF NAV TGT ALL) — Show data box (nav/target/both)

Power (Tx) — Power ON/OFF / Swich Stand-by and Transmit / Display Brill

8.4" COLOR LCD RADAR
Model 1815

Radar Antenna
RSB-127-120
RTR-120

Ethernet

Up to 3
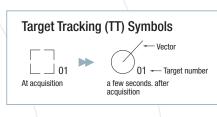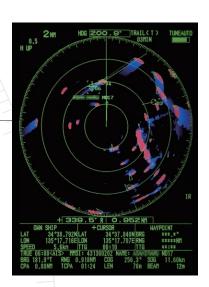
Display Unit
RDP-157

Multi-station configuration

The multi-station configuration allows up to three RDP-157 (MODEL1815 displays) to be connected to a single antenna, via an ethernet hub, without the need to install individual antenna units on each display. This configuration provides a cost saving and dynamic setup for situations requiring the ability to monitor the Radar from different locations on the ship.
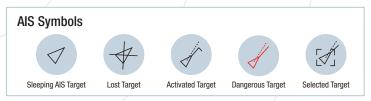
Fast Target Tracking™ (TT) function

Fast Target Tracking™ (TT) function manually or automatically acquires and tracks 10 targets. After selecting a target, it only takes a few seconds for a speed and course vector to be displayed. With accurate tracking information, estimation of other vessel's course and speed is made easier.

Target Tracking (TT) Symbols

☐ 01
At acquisition

◯ 01 ← Vector
← Target number
a few seconds. after acquisition

AIS display

When connecting a FURUNO FA-30/50 AIS unit, up to 100 AIS targets can be tracked and displayed on the Radar screen. The AIS improves safety during travel by sharing the status and position of your vessel with other AIS-equipped vessels nearby. You can easily read detailed information about other AIS equipped vessels nearby, such as speed and heading.

AIS Symbols

Sleeping AIS Target   Lost Target   Activated Target   Dangerous Target   Selected Target

True Trail mode

When using the True Trail Mode, moving objects will show up on the main screen with a gradational trail. These trails make it possible to see the movement of nearby vessels in the blink of an eye.

* Heading data and positional data are required.

Gain/Sea/Rain setting menu

To display targets clearly and accurately, the gain must adjusted. The MODEL1815 can do this automatically for you. By automatically adjusting the gain, the Radar eliminates unnecessary echoes and display a clear image.

Zoom mode

The Zoom function expands the length and width of a selected target with the magnification of 2.0, in the zoom window.

Off Center mode

Own ship position can be 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.

Swivel mounting bracket

The gimbal mount allows the display unit to swivel around when desktop mounted. You can adjust the angle of the display for optimal viewing comfort.
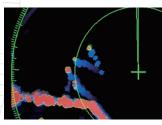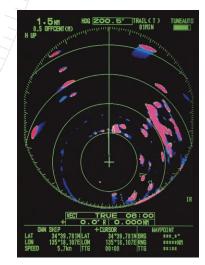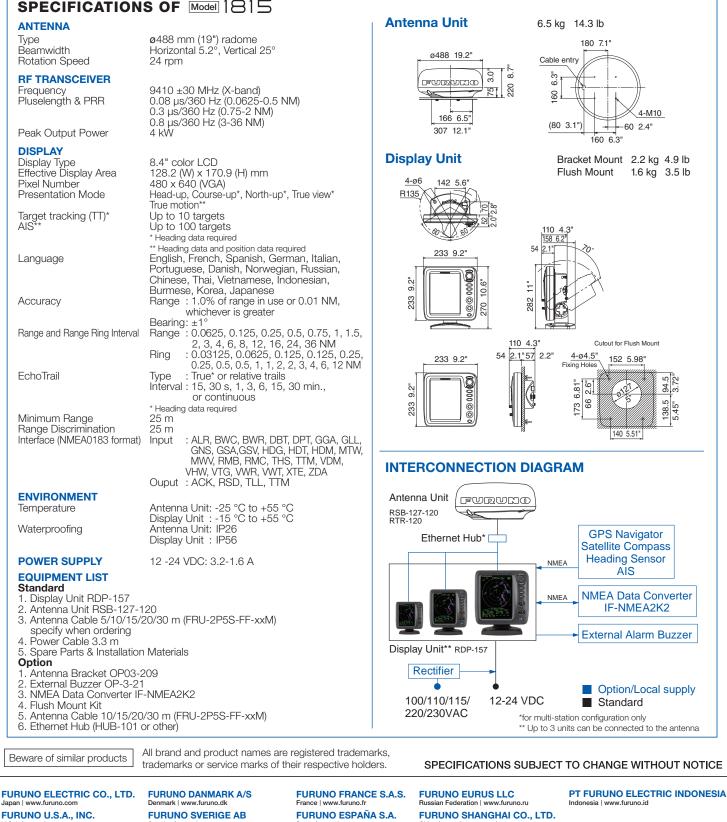
SPECIFICATIONS OF Model 1815

ANTENNA
Type	ø488 mm (19") radome
Beamwidth	Horizontal 5.2°, Vertical 25°
Rotation Speed	24 rpm

RF TRANSCEIVER
Frequency	9410 ±30 MHz (X-band)
Pluselength & PRR	0.08 µs/360 Hz (0.0625-0.5 NM)
	0.3 µs/360 Hz (0.75-2 NM)
	0.8 µs/360 Hz (3-36 NM)
Peak Output Power	4 kW

DISPLAY
Display Type	8.4" color LCD
Effective Display Area	128.2 (W) x 170.9 (H) mm
Pixel Number	480 x 640 (VGA)
Presentation Mode	Head-up, Course-up*, North-up*, True view* True motion**
Target tracking (TT)*	Up to 10 targets
AIS**	Up to 100 targets

* Heading data required
** Heading data and position data required

Language	English, French, Spanish, German, Italian, Portuguese, Danish, Norwegian, Russian, Chinese, Thai, Vietnamese, Indonesian, Burmese, Korea, Japanese
Accuracy	Range : 1.0% of range in use or 0.01 NM, whichever is greater
	Bearing: ±1°
Range and Range Ring Interval	Range : 0.0625, 0.125, 0.25, 0.5, 0.75, 1, 1.5, 2, 3, 4, 6, 8, 12, 16, 24, 36 NM
	Ring : 0.03125, 0.0625, 0.125, 0.125, 0.25, 0.25, 0.5, 0.5, 1, 1, 2, 2, 3, 4, 6, 12 NM
EchoTrail	Type : True* or relative trails
	Interval : 15, 30 s, 1, 3, 6, 15, 30 min., or continuous

* Heading data required

Minimum Range	25 m
Range Discrimination	25 m
Interface (NMEA0183 format)	Input : ALR, BWC, BWR, DBT, DPT, GGA, GLL, GNS, GSA,GSV, HDG, HDT, HDM, MTW, MWV, RMB, RMC, THS, TTM, VDM, VHW, VTG, VWR, VWT, XTE, ZDA
	Ouput : ACK, RSD, TLL, TTM

ENVIRONMENT
Temperature	Antenna Unit: -25 °C to +55 °C
	Display Unit : -15 °C to +55 °C
Waterproofing	Antenna Unit: IP26
	Display Unit : IP56

POWER SUPPLY
12 -24 VDC: 3.2-1.6 A

EQUIPMENT LIST
Standard
1. Display Unit RDP-157
2. Antenna Unit RSB-127-120
3. Antenna Cable 5/10/15/20/30 m (FRU-2P5S-FF-xxM) specify when ordering
4. Power Cable 3.3 m
5. Spare Parts & Installation Materials

Option
1. Antenna Bracket OP03-209
2. External Buzzer OP-3-21
3. NMEA Data Converter IF-NMEA2K2
4. Flush Mount Kit
5. Antenna Cable 10/15/20/30 m (FRU-2P5S-FF-xxM)
6. Ethernet Hub (HUB-101 or other)

Antenna Unit

6.5 kg   14.3 lb

ø488 19.2"
75 3.0"
220 8.7"
166 6.5"
307 12.1"

180 7.1"
Cable entry
160 6.3"
(80 3.1")   60 2.4"
160 6.3"
4-M10

Display Unit

Bracket Mount   2.2 kg   4.9 lb
Flush Mount   1.6 kg   3.5 lb

4-ø6   142 5.6"
R135
70
52 2.0" 2.8"
60

233 9.2"
233 9.2"
270 10.6"

110 4.3"
158 6.2"
54 2.1"
70°
282 11"

233 9.2"

110 4.3"
54 2.1" 57 2.2"

Cutout for Flush Mount
4-ø4.5"
Fixing Holes
152 5.98"
94.5 3.72"
173 6.81"
66 2.6"
ø127 5"
138.5 5.45"
140 5.51"

INTERCONNECTION DIAGRAM

Antenna Unit FURUNO
RSB-127-120
RTR-120

Ethernet Hub*

GPS Navigator
Satellite Compass
Heading Sensor
AIS

NMEA

NMEA Data Converter
IF-NMEA2K2

NMEA

External Alarm Buzzer

Display Unit** RDP-157

Rectifier

100/110/115/220/230VAC   12-24 VDC

■ Option/Local supply
■ Standard

*for multi-station configuration only
** Up to 3 units can be connected to the antenna

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE