FURUNO

8.4" COLOR LCD RADAR

Model 1815



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

- ► 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 TrackingTM (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 settings Cancel key

Menu selections Cursor key

Set Guard zone

Select range scale

Adjust GAIN control Reduce SEA/RAIN clutter

Enter key
AIS/TT select or acquire
Select display mode
Measure target
Alarm settings

Function settings: TLL

Rings Brill Heading Line Brill Display Color Echo Color

Display Mode

Data Box Trail Time

Trail Erase etc.

Show data box (nav/target/both)

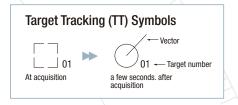
Power ON/OFF Swich Stand-by and Transmit Display Brill

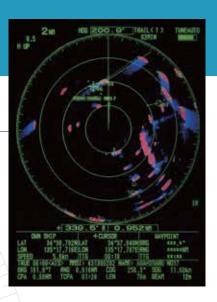
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Fast Target Tracking™ (TT) function

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.





AIS display

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

AIS Symbols







Lost Target



Activated Target



Dangerous Target

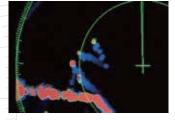


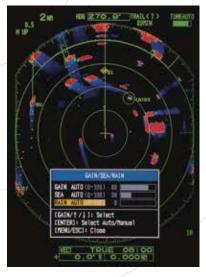
Selected Target

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.

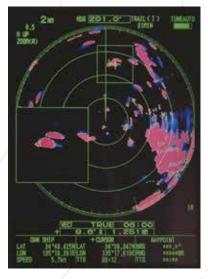
* Heading data and positional data are required.





Gain/Sea/Rain setting menu

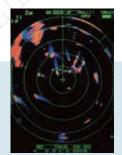
To display targets clearly and accurately, the gain must adjusted. The MODEL1815 can do this automatically for you. By automatically adjusting the gain, the Radar eliminates unnecessary echoes and display a clear image.

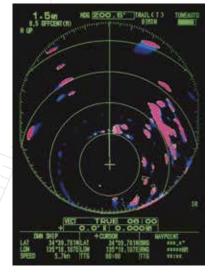


Zoom mode

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



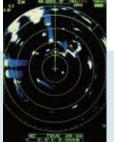




Off Center mode

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.



6.5 kg 14.3 lb

Antenna Unit

SPECIFICATIONS OF Model 1815

ANTENNA

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

RF TRANSCEIVER

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

Peak Output Power

: 60 MHz IF Frequency

BW: 20 MHz (0.0625 to 0.5 NM) 4.5 MHz (0.75 to 36 NM)

DISPLAY

Display Type Effective Display Area 8.4" color LCD 128.2 (W) x 170.9 (H) mm 480 x 640 (VGA) Pixel Number

Presentation Mode Head-up, Course-up*, North-up*, True view*

True motion** Target tracking (TT)*
AIS** Up to 10 targets Up to 100 targets

* Heading data required

** Heading data and position data required English, French, Spanish, German, Italian, Portuguese, Danish, Norwegian, Russian, Chinese, Thai, Vietnamese, Indonesian, Language

Burmese, Korea, Japanese Range: 1.0% of range in use or 0.01 NM,

Accuracy whichever is greater

Range and Range Ring Interval

Willicever is greater
Bearing: EBL accuracy ±1°
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
Type: True* or relative trails

EchoTrail Interval: 15, 30 s, 1, 3, 6, 15, 30 min.,

or continuous * Heading data required

Minimum Range 25 m

Range Discrimination 25 m

: ALR, BWC, BWR, DBT, DPT, GGA, GLL, Interface (NMEA0183 format) Input

GNS, GSA, GSV, HDG, HDT, HDM, MTW, MWV, RMB, RMC, THS, THM, VDM, VHW, VTG, VWR, WT, XTE, ZDA Ouput: ACK, RSD, TLL, TTM

12 -24 VDC: 3.2-1.6 A

ENVIRONMENT

Temperature Antenna Unit: -25 °C to +55 °C Display Unit: -15 °C to +55 °C Antenna Unit: IPX6

Waterproofing Display Unit: IP56

POWER SUPPLY

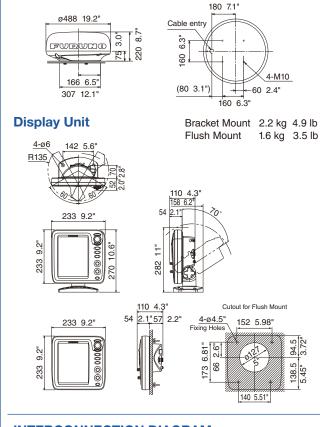
EQUIPMENT LIST

Standard

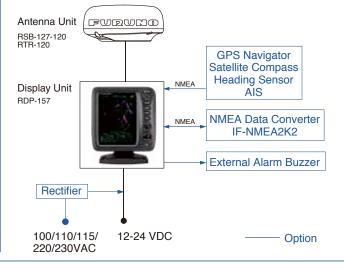
- 1. Display Unit RDP-157
- 2. Antenna Unit RSB-127-120
- Antenna Cable 10/15/20/30 m specify when ordering
- 4. Power Cable 3.3 m
- Spare Parts & Installation Materials

Option

- Antenna Bracket OP03-209
- External Buzzer OP-3-21
- 3. NMEA Data Converter IF-NMEA2K2
- 4. Flush Mount Kit

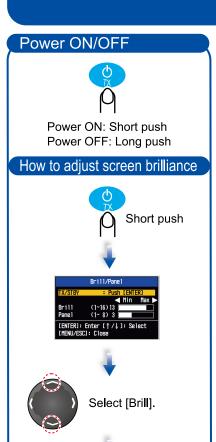


INTERCONNECTION DIAGRAM

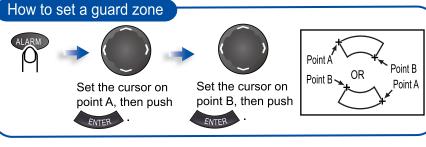


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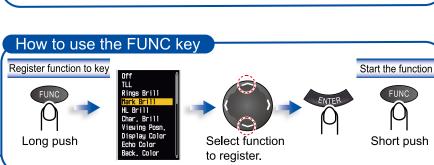
This guide provides the basic operating procedures for this equipment. For detailed information, see the Operator's Manual. The brand and product names mentioned in this guide are trademarks, registered trademarks or service marks of their respective holders.





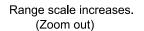


Operator's Guide





Rotate knob counterclockwise.



Range scale decreases. (Zoom in)





Adjust.



How to adjust GAIN/SEA/RAIN







How to select a range scale

Rotate knob.

Select [GAIN AUTO], [SEA AUTO], or [RAIN MAN].



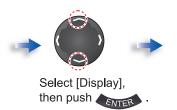
GAIN AUTO: Adjust radar display gain. SEA AUTO: Adjust sea clutter. RAIN MAN: Adjust rain clutter.

Auto/Manual: Push knob. Manual adjustment: Rotate knob.

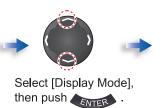
How to select a display mode









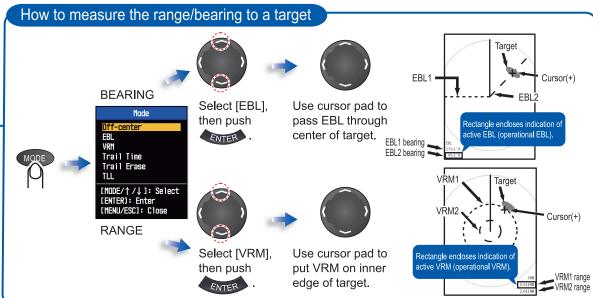






Select required mode, then push ENTER .





How to off-center ship position



Put cursor where to put ship position.



EBL VRM Trail Time Trail Erase [MODE/↑/↓]: Select [ENTER]: Enter [MENU/ESC]: Close

Mode

Select [Off-center], then push

OFF: No display NAV: Show nav data. Rotate knob

to select. TGT: Show target data.

How to select the data to show in the data box

ALL: Show nav data and target data.