

Now 4 kW

FURUNO[®]

High-performance 4 kW
Clear-view 8-inch display

LCD RADAR

MODEL 841 MARK-2



- 4 kW transmitter output power
- 15 range scales from 1/8 to 36 nm
- Waterproof 8" LCD display housing
- High-resolution, 4-tone display (480 x 640 pixels)
- New reduced-windage compact radome
- Automatic optimized radar picture
- Graphic barometric and depth displays
- Zoomed, pop-up picture area
- Innovative display modes: Head-up, Course-up, Waypoint-up, North-up and True Motion
- Adjustable Guard Zone and Watch alarms
- 2 NMEA 0183 ports, 1 in/out, 1 in
- Selected navigation data on screen

The FURUNO MODEL 841 MARK-2 is a new powerful 4 kW output power LCD radar designed for small fishing boats and pleasure craft. Radar images are presented clearly in 4 tones on the 8" LCD screen mounted within a waterproof, rugged display.

The MODEL 841 MARK-2 has many standard features: EBL, EVRM, Echo Trails, Guard Zone Alarm, Off-center, Watch mode and Zoom. Automatically controlled receiver tuning and anti-clutter ensures optimum long range performance, target detection and simplified radar operation. The Guard Zone generates audio and visual alarms when a target comes within a user-defined area.

With use of nav data inputs in NMEA0183 format from appropriate nav sensors, the MODEL 841 MARK-2 displays the following information: ship's position in

L/L or Loran-C TDs, cursor position readout in L/L, ship's speed, course and range/bearing to the targeted waypoint, XTE, EBL readout in true bearing and a Lollipop waypoint mark. The cursor position target data (TLL) and radar system data (RSD) can be output in NMEA 0183 format to a compatible video plotter or computer.

The compact and waterproof display unit allows a flexible and space-saving installation on flybridges, towers and at your navigation station. The addition of the radar's high-performance, stylish radome antenna will complement any vessel.

For those needing a second display at a remote location, the Remote Radar Display, Model FMD-811 is optionally available.



The future today with FURUNO's electronics technology.

FURUNO ELECTRIC CO., LTD.

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Catalogue No. R-163b

SPECIFICATIONS OF MODEL 841 MARK-2

ANTENNA RADIATOR

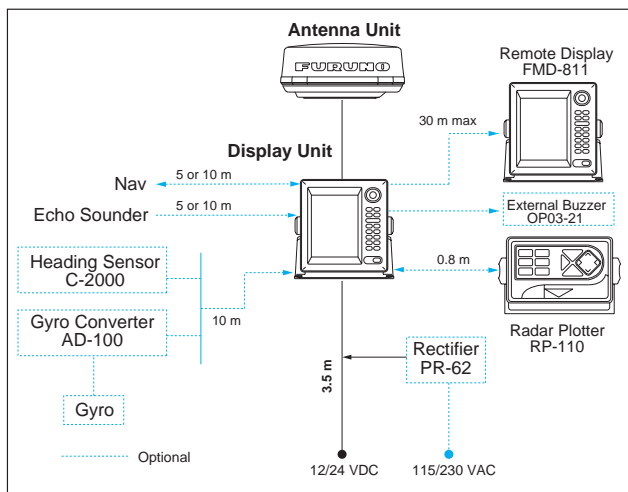
- 1. **Type** 55 cm hybrid array
- 2. **Rotation Speed** 24 rpm typical
- 3. **Wind Load** Relative wind 100 knots
- 4. **Beamwidth** Hor: 3.9°, Vert: 20°

RF TRANSCEIVER

- 1. **Frequency** 9410 ± 30 MHz (X-band)
- 2. **Pulselength & PRR**
 0.08 µs/2100 Hz (0.125, 0.25, 0.5, 0.75, 1, 1.5* nm)
 0.3 µs/1200 Hz (1.5*, 2, 3* nm)
 0.8 µs/600 Hz (3*, 4, 6, 8, 12, 16, 24, 36 nm)
** Pulselength & PRR for 1.5 and 3 nm ranges can be selected in menu*
- 3. **Peak Output Power** 4 kW nominal
- 4. **Mixer and Local Oscillator** Microwave Integrated Circuit
- 5. **IF** 60 MHz
 Bandwidth: 7 MHz
- 6. **Noise Figure** 9 dB nominal

DISPLAY UNIT

- 1. **Type** 8-inch LCD (4-level quantization)
 480 (H) x 640 (V) dots
- 2. **Display Mode**
 Head-up, North-up*, Course-up*/Waypoint-up***, and True Motion**
Heading data required **Heading and speed data required * Heading and waypoint data required*
- 3. **Range Scales**
 Range scales can be selected on menu from:
 Range: 1/8, 1/4, 1/2, 3/4, 1, 1.5, 2, 3, 4, 6, 8, 12, 16, 24, 36
 Ring: 1/16, 1/8, 1/8, 1/4, 1/4, 1/2, 1/2, 1, 1, 2, 2, 3, 4, 6, 12
- 4. **Echo Trail**
 Interval: 15 sec, 30 sec, 1 min, 3 min, 6 min, 15 min, 30 min or continuous
- 5. **Interface** (NMEA0183 format) -- : any talker
 Input
 \$- -APB, \$- -BWC, \$- -BWR, \$- -DBK, \$- -DBS, \$- -DBT, \$- -DPT, \$- -GLC, \$- -GLL, \$- -GTD, \$- -HDG, \$- -HDM, \$- -HDT, \$- -MDA, \$- -MTW, \$- -RMA, \$- -RMB, \$- -RMC, \$- -VTG, \$- -VHW, \$- -XTE, \$- -ZDA
 Output:
 \$RATLL, \$RARSD



ENVIRONMENT

Waterproofing: IEC 529 IPX5, USCG CFR46 (Display unit)

POWER SUPPLY

- 10.2 to 31.2 VDC, 41 W
- 115/230 VAC with optional rectifier PR-62

EQUIPMENT LIST

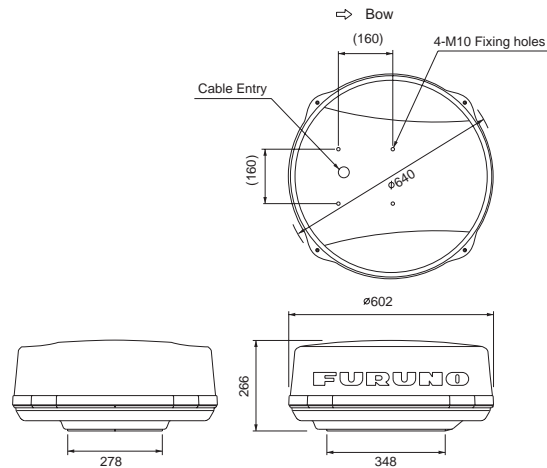
Standard

- | | |
|---|--------|
| 1. Display Unit | 1 unit |
| 2. Radome Antenna Unit | 1 unit |
| 3. Antenna Cable, 10/15/20/30 m (specify when ordering) | 1 pc |
| 4. Power Cable, 3.5 m | 1 pc |
| 5. Standard Spare Parts and Installation Materials | 1 set |

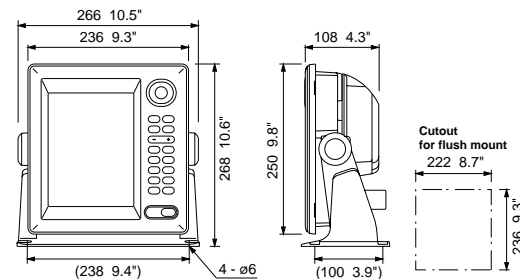
Optional

- 1. Antenna Bracket OP03-92
- 2. Rectifier PR-62
- 3. Data Cable
 MJ-A6SPF0012-050 (5 m), MJ-A6SPF0012-100 (10 m),
 MJ-A6SPF0011-050 (5 m), MJ-A6SPF0011-100 (10 m)
- 4. Compass Cable MJ-A6SPF0007-100 (10 m)
- 5. External Alarm Buzzer OP03-136

Antenna unit 8 kg 17.6 lbs



Display unit 2.8 kg 6.2 lbs



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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