

Now 4 kW

FURUNO®

High power 4 kW, 36 nm range

COMPACT RASTERSCAN RADAR

MODEL 1731 MARK-3

- 4 kW transmitter output power
- 14 range scales from 1/4 to 36 nm
- High-resolution, 8-tone display
481 x 640 pixels, 7-inch CRT
- New reduced-windage
compact radome
- Automatically optimized radar
picture
- Adjustable Guard Zone and
Watch alarms
- 2 NMEA 0183 ports, 1 in/out, 1 in
- Cursor position readout in L/L
- Selected navigation data on
screen
- Power economy mode

The FURUNO MODEL 1731 MARK-3 is a new 4 kW output power radar designed for small fishing boats and pleasure craft. Radar images are presented clearly in 8 gradations on the 7" CRT.

The MODEL 1731 MARK-3 gives many useful features: EBL, EVRM, Echo Trails, Guard Zone Alarm, Off-center, Watch mode and Zoom. Automatically controlled receiver tuning and anti-clutter ensures optimum performance, target detection and simplified radar operation. The Guard Zone generates an audio alarm when a target comes within a user-defined area.

With use of nav data inputs in NMEA 0183 format, the MODEL 1731 MARK-3 displays the following information: ship's position in L/L or Loran-C TDs, cursor position readout in L/L, ship's heading, speed, course and range/bearing to the targeted waypoint, XTE, EBL readout in true bearing and a Lollipop waypoint mark.



NEW RADOME ANTENNA



The compact display design allows for a flexible and space-saving installation at your navigation station. The addition of the radar's new high-performance and stylish radome antenna will complement any vessel.

For those needing a second display on the flybridge, tower or at another remote location, the compact, waterproof, optional FMD-811 Remote Radar Display is available. The FMD-811 with its high-resolution 8" LCD display fulfills the second station requirement.



© The future today with FURUNO's electronics technology.

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Catalogue No. R-159a

SPECIFICATIONS OF MODEL 1731 MARK-3

ANTENNA RADIATOR

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

RF TRANSCEIVER

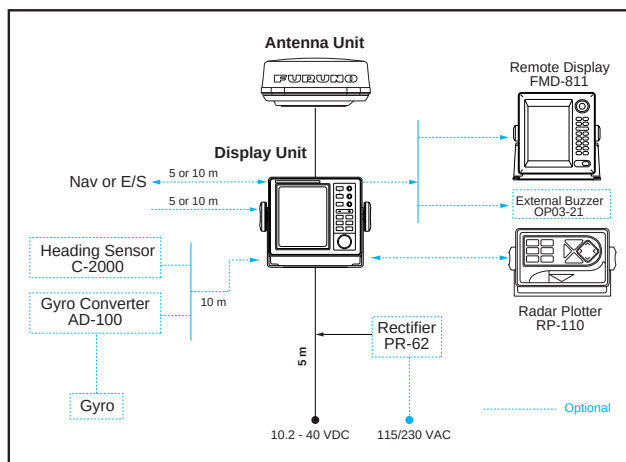
1. **Frequency** 9410±30 MHz (X-band)
2. **Pulselength and PRR** (Pulse Repetition Rates)
0.08 µs/2100 Hz (0.25 to 1 nm)
0.3 µs/1200 Hz (1.5 to 3 nm)
0.8 µs/600 Hz (4 to 36 nm)
3. **Peak Output Power** 4 kW nominal
4. **Mixer and Local Oscillator**
Microwave Integrated Circuit
5. **IF** 60 MHz, Bandwidth: 7 MHz
6. **Noise Figure** 9 dB nominal

DISPLAY UNIT

1. **Type**
7-inch, green phosphor CRT (8-level),
481(H) x 640(V) dots
2. **Display Mode**
Head-up
3. **Range Scales (nm)**
Range: 1/4, 1/2, 3/4, 1, 1.5, 2, 3, 4, 6, 8, 12, 16, 24, 36
Ring: 1/8, 1/10, 1/4, 1/5, 1/2, 1, 1, 2, 2, 3, 4, 6, 6
4. **Echo Trail**
Interval: 15, 30 s, 1, 3, 6 min, or continuous
5. **Interface** (NMEA 0183 format) —: *Any talker*
\$-GLL, \$-BWC, \$-BWR, \$-VTG, \$-GLC,
\$-HDT, \$-HDM, \$-HDG, \$-RMA, \$-RMB,
\$-RMC

ENVIRONMENT (IEC60945 Test method)

Temperature: -25 to +70°C (Antenna Unit)
-15 to +55°C (Display Unit)



POWER SUPPLY

10.2 to 40.0 VDC, 47 W approx
115/230 VAC with optional rectifier PR-62

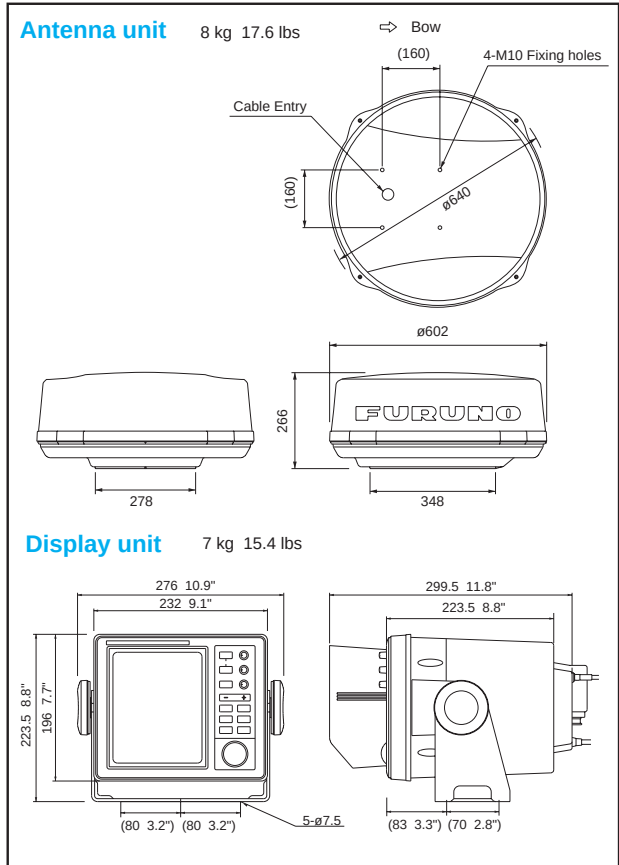
EQUIPMENT LIST

Standard

1. Display Unit with Sun Visor/Magnifying Lens 1 unit
2. Antenna Unit 1 unit
3. Antenna Cable 10/15/20/30 m
(Specify when ordering) 1 pc
4. Standard Spare Parts and Installation Materials 1 set

Optional

1. Rectifier PR-62 for 115/230 VAC
2. Data Cable
MJ-A6SPF0012-050 (5 m), MJ-A6SPF0012-100 (10 m)
3. Compass Cable MJ-A6SPF0009-100 (10 m)
4. External Alarm Buzzer OP03-21
5. Fluxgate Heading Sensor C-2000
6. RP-110 Radar Plotter
7. Remote Radar Display FMD-811
8. Antenna Bracket OP03-92



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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