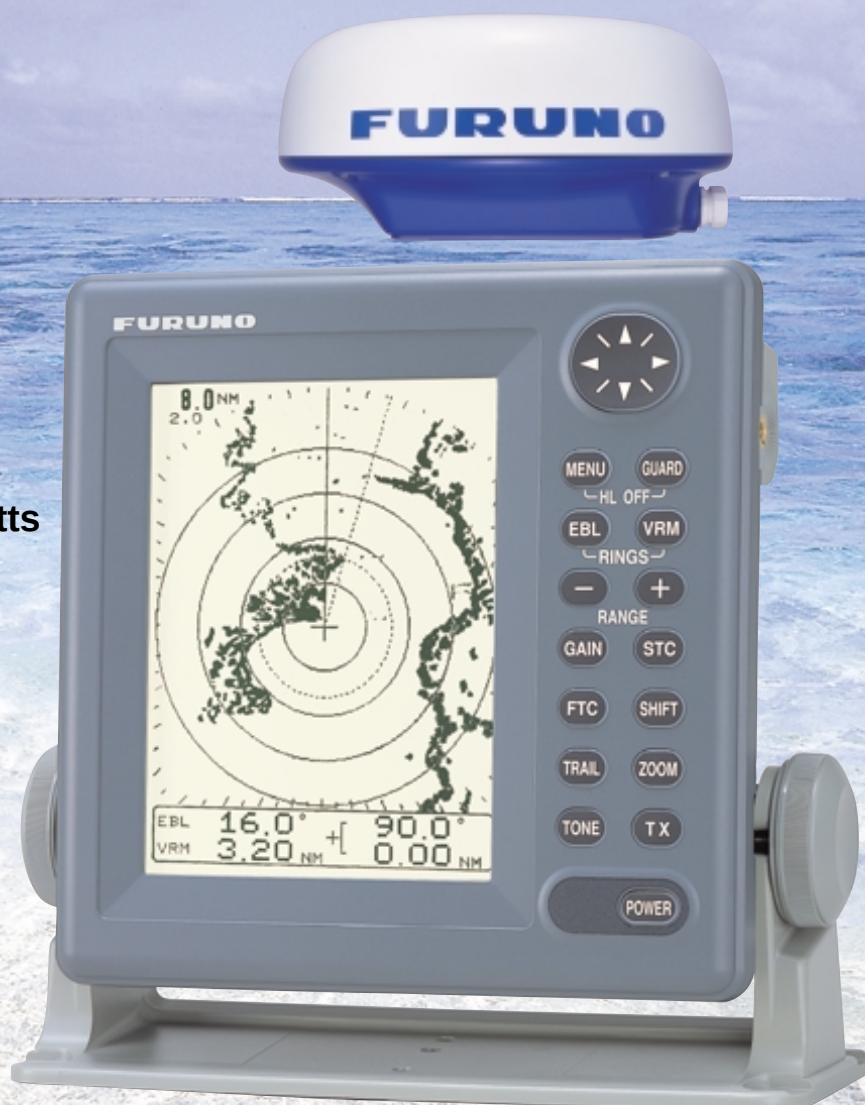


FURUNO®

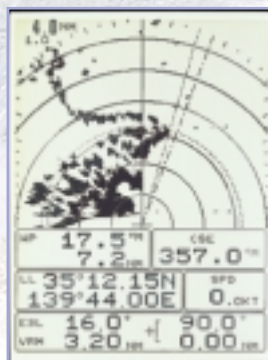
Powerful 2.2 kW
Clear-view 7" display

LCD RADAR MODEL 1712

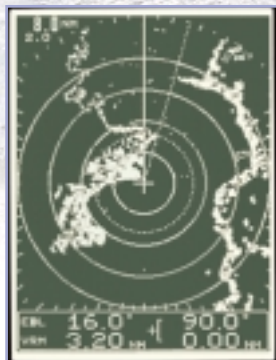
- Vivid, 7" high contrast silver LCD
- 14 range scales from 0.125 to 24 nm
- Power conserving Watchman mode requires less than 8 watts
- Easy to interpret and use waypoint circle on display
- Low-profile 18" radome accommodating a new precision 17" microstrip radiator
- Radar Guard Zone Alarm (US Patent No.5032842)
- Narrow beam width



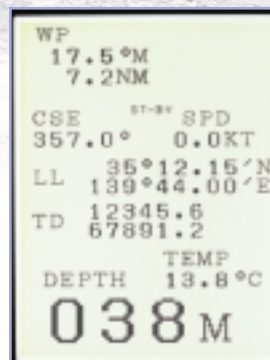
OFF-CENTER



REVERSE



NAV Data



The future today with FURUNO's electronics technology.

FURUNO ELECTRIC CO., LTD.

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Catalogue No. R-174b

TRADE MARK REGISTERED
MARCA REGISTRADA

The MODEL 1712 is a high-performance compact LCD radar designed for smaller pleasure craft and fishing boats. Radar echoes are presented in four shades of gray on the 7" high-definition LCD. The picture is visible even in direct sunlight. The compact display unit and antenna unit offer ease of installation. The watertight display unit may be installed in an open cockpit or flybridge.

The MODEL 1712 has a power saving Watchman feature; the antenna is stopped and the transmission is suspended, while the screen displays nav data in text format. The radar wakes up at a specified time interval

(5, 10 or 20 min) and operates for 10 scans. If a target enters the Guard Zone, an audible alarm sounds and the radar goes into its normal operating mode, canceling the standby mode. The alarm may also be set to work for a target leaving the Guard Zone.

The Low profile 18" radome accommodates a precision 17" microstrip radiator and 2.2 kW transceiver.

The antenna beamwidth is 5.2 degrees to insure your safety for general radar use. These characteristics help detect objects over a greater distance, even in bad weather.

SPECIFICATIONS OF MODEL 1712

ANTENNA

- 1. Type** Microstrip antenna, enclosed in $\varnothing 460$ mm (18") radome
- 2. Beamwidth** Hor: 5.2°, Vert: 25°
- 3. Rotation Speed** 24 rpm
- 4. Wind Load** Relative wind 100 knots

RF TRANSCEIVER

- 1. Frequency** 9410 $\pm$ 30 MHz (X-band)
- 2. Pulselength & PRR** 0.12 μ s/2150 Hz (0.125 to 0.75 nm)
0.3 μ s/1250 Hz (1 to 2 nm)
0.8 μ s/630 Hz (3 to 16 nm)
- 3. Peak Output Power** 2.2 kW nominal
- 4. IF Amplifier** IF: 60 MHz, Bandwidth: 7 MHz
- 5. Noise Figure** 10 dB typical

DISPLAY

- 1. Display Unit** 7" Monochrome LCD,
4 gray tones, 240 x 320 pixels
- 2. Accuracy**
Range: 1.0 % of range in use or 8 m, whichever is greater
Bearing: $\pm 1^\circ$
- 3. Range and Range Ring Interval**
Range: .125, .25, .5, .75, 1, 1.5, 2, 3, 4, 6, 8, 12, 16, 24 nm
Ring: .0625, .125, .25, .5, 1, 2, 3, 4, 6 nm
- 4. Echo Trail**
Interval: 30 s, 1, 3, 6 min, or continuous
- 5. Other Functions/Features:** Omnipad EBL/VRM, Easy-to-use menu, Guard zone alarm

- 6. Interface** (NMEA 0183 format) *any talker*
BWC, BWR, DBK, DBS, DBT, DPT, GGA, GLC, GLL, GTD, HDG, HDM, HDT, MTW, RMA, RMB, RMC, VTG

ENVIRONMENT (IEC 60945 Test method)

- Temperature: -25°C to +70°C (Antenna Unit)
-15°C to +55°C (Display Unit)
- Water resistance: IEC IPX5, USCG CFR 46 (Display Unit)

POWER SUPPLY

10.2 to 31.2 VDC, 43 W max
115/230 VAC with optional rectifier PR-62

EQUIPMENT LIST

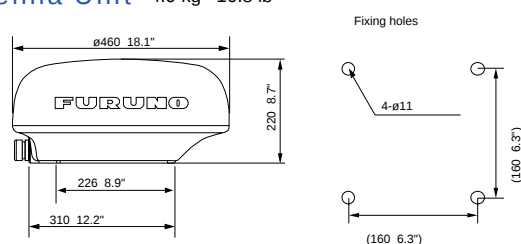
Standard

- | | |
|---|--------|
| 1. Display Unit RDP-134-S | 1 unit |
| 2. Antenna Unit RSB-0087 | 1 unit |
| 3. Antenna Cable 10/15/20 m (Specify when ordering) | 1 pc. |
| 4. Power Cable 3.5 m | 1 pc. |
| 5. Spare Parts and installation materials | 1 set |

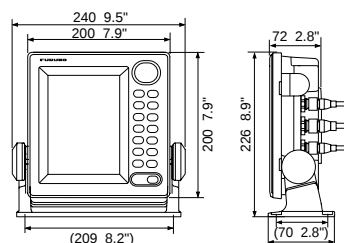
Optional

1. Rectifier PR-62 for 115/230 VAC mains
2. NMEA Cable, 5 m (MJ-A6SPF0003-050) or 10 m (MJ-A6SPF0009-100)
3. Antenna Bracket OP03-93
4. External Buzzer OP03-168
5. Antenna Cable, 30 m (for 24 VDC Mains)

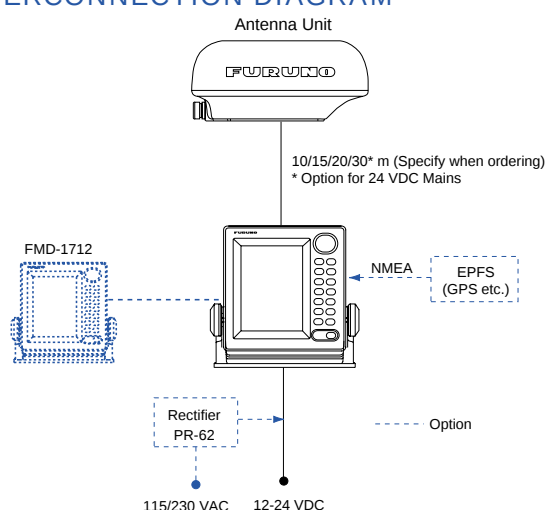
Antenna Unit 4.9 kg 10.8 lb



Display Unit 1.6 kg 3.5 lb



INTERCONNECTION DIAGRAM



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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