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High-Performance 2.2 kW transceiver in a 15" radome

6-INCH LCD RADAR

High Contrast 6" Silver Bright LCD

13 range scales from 0.125 to 16 nm

Optional GPS/DGPS/WAAS navigator shows waypoint position with "lollipop mark"

Low power consumption 8 Watts in Watchman mode

Reverse video feature for effective use at night

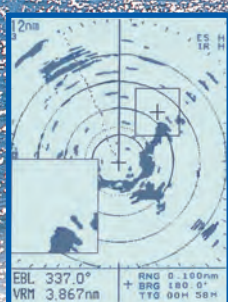
Improved short range target detection by using narrower pulselengths and dual IF bandwidths

Zoom window for close observation of a specific area

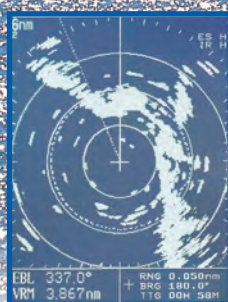
Guard Zone Alarm

(US Patent No.5032842)

MODEL 1623



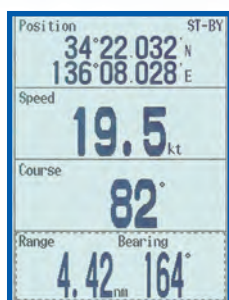
Zoom



Reverse



NAV data



NAV data



The MODEL 1623 is a high contrast LCD radar designed for pleasure craft and small fishing boats. Radar echoes are presented in four shades of gray on the 6" Silver Bright LCD. The Radar offers detailed pictures of coastline and targets at short ranges thanks to narrower pulselengths and dual IF bandwidths. The waterproof display makes it ideal for flybridge installation.

Standard features include EBLs (Electronic Bearing Line), EVRMs (Electronic Variable Range Marker), TLL output (Target Latitude and Longitude), Cursor L/L input/output, Echo Trail, Guard Zone Alarm, Anti Clutter Rain, Automatic control of tuning and sensitivity. These features ensure optimum performance in detecting and ranging targets of interest.

The operator can select from Normal, Off-center, Zoom, and Watchman mode. In the Watchman mode, the antenna is stopped and the transmission is off, while the screen displays nav data only. The radar wakes up at a specified time interval (5, 10 or 20 min) and operates for a minute. If a target enters the Guard Zone, an audible alarm sounds and the radar goes into its normal operating mode, cancelling the Watchman mode. The alarm may also be set to work for a target leaving the Zone.

You can see a Waypoint on the high contrast LCD screen when the radar is connected with an optional GPS Navigator. The Waypoint is indicated by a lollipop mark for easy identification and location.

SPECIFICATIONS OF MODEL 1623

ANTENNA

Type	Mirostrip radiator enclosed in ø380 mm radome
Beamwidth	Hor. 6.2°, Vert. 25°
Rotation Speed	41 rpm (0.125 to 0.75 nm) 31 rpm (1 to 2 nm) 24 rpm (3 to 16 nm)

RF TRANSCEIVER

Frequency	9410±30 MHz (X-band)
Pulselength & PRR	0.08 µs/3000 Hz (0.125 to 0.75 nm) 0.3 µs/1200 Hz (1 to 2 nm) 0.8 µs/600 Hz (3 to 16 nm)
Peak Output Power	2.2 kW nominal
IF Amplifier	IF: 60 MHz BW: 15 MHz (0.125 to 0.75 nm) 5 MHz (1 to 16 nm)

DISPLAY

Display Unit	6" monochrome LCD, 4 gray tones, 240 x 320 pixels, 90 mm (W) x 120 mm (H)
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Accuracy

Range:	1.0 % of range in use or 8 m, whichever is greater
Bearing:	EBL accuracy ±1°

Range and Range Ring Interval

Range:	0.125, 0.25, 0.5, 0.75, 1, 1.5, 2, 3, 4, 6, 8, 12, 16 nm
Ring:	.0625 .125 .125 .25 .25 .5 .5 1 1 2 2 3 4 nm

Echo Trail Interval: 30 s, 1, 2, 6 min, or continuous

Interface (NMEA 0183 format)

BWC, BWR, DBK, DBS, DBT, DPT, GGA, GLC, GLL, GTD, HDG, HDM, HDT, MTW, MWV, RMA, RMB, RMC, VBW, VHW, VTG, XTE, ZDA

ENVIRONMENT

Temperature (IEC 60945 Test method)

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

Water resistance (IEC 60529 Test method)

Antenna Unit:	IEC IPX6, CFR46 (USCG)
Display Unit:	IEC IPX5, CFR46 (USCG)

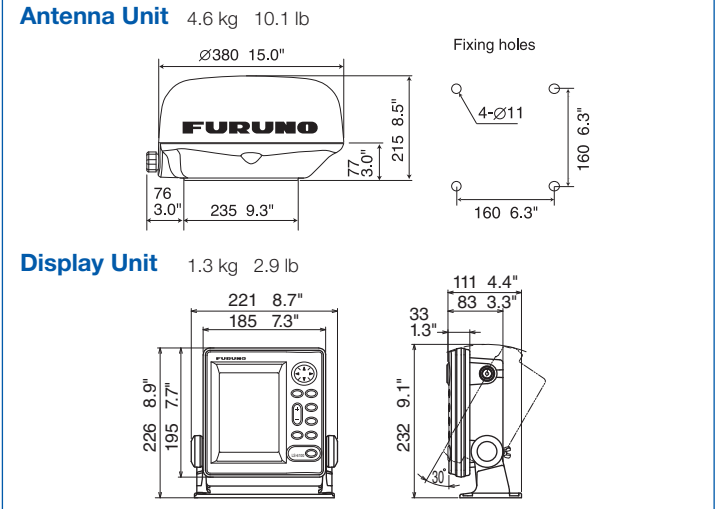
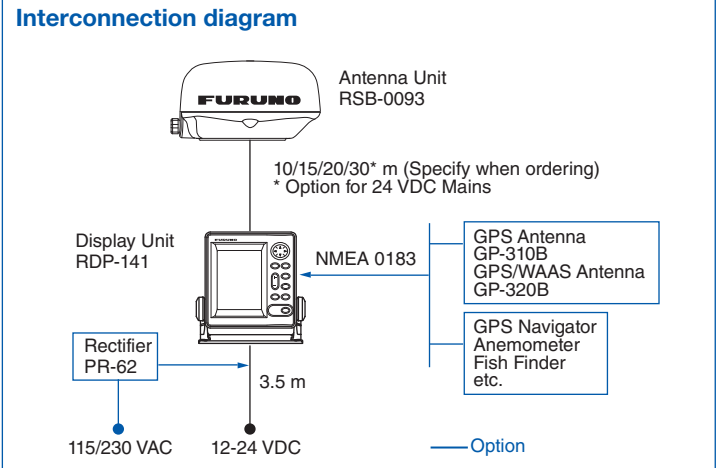
POWER SUPPLY

12 to 24 VDC, 42 W (max), 8 W (in Watchman mode)
115/230 VAC with optional rectifier PR-62

EQUIPMENT LIST

Standard	
1. Display Unit	1 unit
2. Antenna Unit	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 & Installation Materials	1 set
Option	
1. Rectifier PR-62 for 115/230 VAC mains	
2. NMEA Cable, 5 m (MJ-A7SPF0007-050)	
3. NMEA Cable, 0.5 m branched (MJ-A15A7F0004-005)	
4. NMEA Cable, 2 m 7P to 7P (MJ-A15A7F0005-020)	
5. Antenna Bracket OP03-93	
6. External Buzzer XH3-BZ-L970	
7. Antenna Cable, 30 m (for 24 VDC Mains)	



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