

1731M3 SPECIFICATIONS

ANTENNA RADIATOR

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

RF TRANSCEIVER

1. **Frequency** 9410 +/-30 MHz (X-band)
2. **Pulselength & PRR** 0.08 us/2100 Hz (0.25 to 1 nm)
0.3 us/1200 Hz (1.5 to 3 nm)
0.8 us/600 Hz (4 to 36 nm)
3. **Peak Output Power** 4 KW nominal
4. **Mixer & Local Osc.** Microwave Integrated Circuit
5. **I.F.** 60 MHz, Bandwidth: 7 MHz
6. **Duplexer** Ferrite circulator with limiter diode
7. **Noise Figure** 9 dB nominal

DISPLAY UNIT

1. **Picture Tube** 7" diagonal, green phosphor CRT (8 level)
100mm effective dia., 481 (H) X 640 (V) pixels
2. **Range and Range Ring Interval**
Range scales (2-scale min.) are selected on MENU from:
Range: .25 .5 .75 1 1.5 2 3 4 6 8 12 16 24 36 nm
Ring: .125 .125 .25 .25 .5 .5 1 1 2 2 3 4 6 12 nm
3. **Minimum Range** 25 meters
4. **Discrimination Range** 20 meters
5. **Accuracy**
Range: .9% of range in use or 8m, whichever is greater
Bearing EBL accuracy +/- 1 degree
6. **Echo Plot** Interval: 15, 30s, 1, 3, 6 min or continuous
7. **Nav Data** NMEA 0183 format --:Any talker
\$--BWC, \$--BWR, \$--GLC, \$--GLL,
\$--HDG, \$--HDM, \$--HDT, \$--RMA,
\$--RMB, \$--RMC, \$--VTG

ENVIRONMENT (IEC945 Test method)

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

POWER SUPPLY

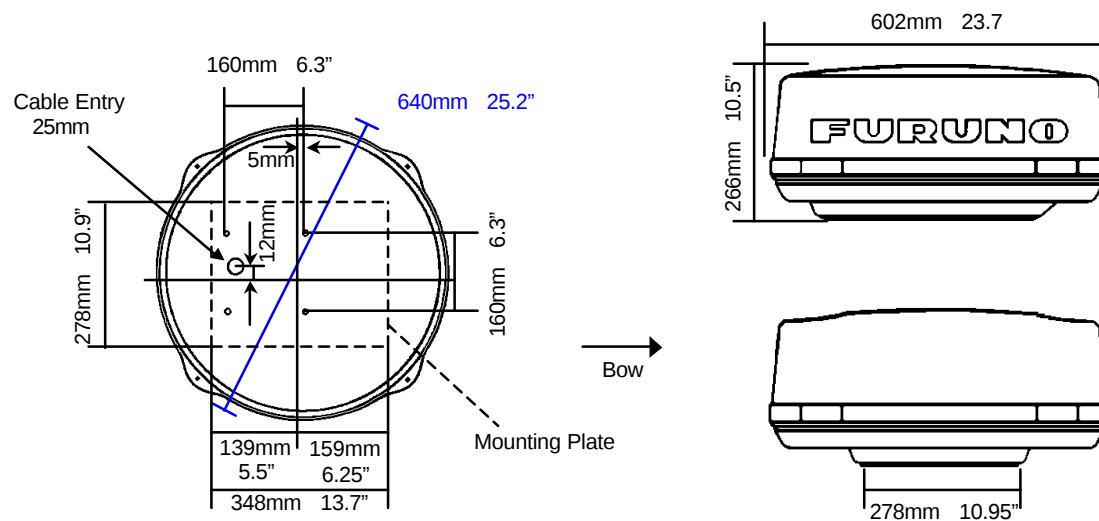
10.2 to 40 VDC, 47 W approx., 25 W in economy mode (stand-by)
115/230 VAC with optional rectifier PR62

EQUIPMENT: Standard

NAME	TYPE	PART#	QTY
Scanner	Dome	RSB0071-058	1
Display	Display Head	1731M3DISP	1
<i>Consists of:</i>			
•Bracket Assy	FP03-04602	008-428-630	1
•Glass Fuse	FGMB 10Amp 125Vac	000-104-815	2
•Glass Fuse	FGMB 5Amp 125Vac	000-112-785	2
•Hood Assy	FP03-04601	008-428-620	1
•Knob Bolts	FP03-04603	008-428-800	2
•Op Manual	English	OME-348-10Z	1
•Power Cable	P03-2-3.5M	000-113-501	1
•Socket Cap	03-112-1254-1	100-159-441	1
•Tapping Screw	6 X 20 SUS304	000-802-084	5
Inst.	Signal Cable 10M	008-475-260	1

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ANTENNA UNIT 8 kg 17.6 lbs.



DISPLAY UNIT 4.8 kg 10.6 lbs.

