



TECHNICAL SPECIFICATION

BridgeMaster E S Band Scanner (10cm)

Transmitter Characteristics

Magnetron Nominal Peak Power 30kW
Magnetron Frequency 3050MHZ

Pulse Length/prf

0.05µs/1760Hz Nominal
0.25µs/1760Hz Nominal
0.75µs/785Hz Nominal

Pulse Generator

Solid State with pulse forming network driving a magnetron

Receiver Characteristics

Logarithmic
Low noise front end
Automatic or manual Tuning
IF Centered at 60MHz
IF bandwidth 20MHz (Short pulse) nom
IF bandwidth 20MHz (Medium pulse) nom
IF bandwidth 3MHz (Long pulse) nom
Noise factor - 5dB nominal

Turning Unit Power Supplies

Nominal Input
Single Φ 110V or 220V 50/60Hz 710VA (standard speed)
710VA (high speed)
Three Φ 110V, 220V or 440V 50/60Hz 440VA (standard speed)
620VA (high speed)
*The antenna turning unit is powered directly from the ship's mains via a scanner control unit.
Power consumption figures assume maximum antenna size in 100 knot wind.*

Transceiver Power Supplies

Nominal Input
AC 92V to 276V RMS at 47-64Hz
120W

Antenna Characteristics

Antenna Aperture Length	9 ft. (2.7m)	12 ft. (3.5m)
Horizontal beamwidth	2.8° max	2° max
Vertical beamwidth	30° nom	30° nom
Sidelobes within 10° (min)	--	-23dB
Sidelobes within 15° (min)	-23dB	--
Sidelobes outside 10° (min)	--	-30dB
Sidelobes outside 15° (min)	-28dB	--
Gain (nominal)	25dB	26dB
Polarization	Horizontal	Horizontal
Rotation	50Hz 25/48rpm 60Hz 30/48rpm	50Hz 25/48rpm 60Hz 30/48rpm
Limiting relative wind speed	100 knots	100 knots

*9 ft. S Band antenna is approved for high speed craft only.

Options Available for Standard Models

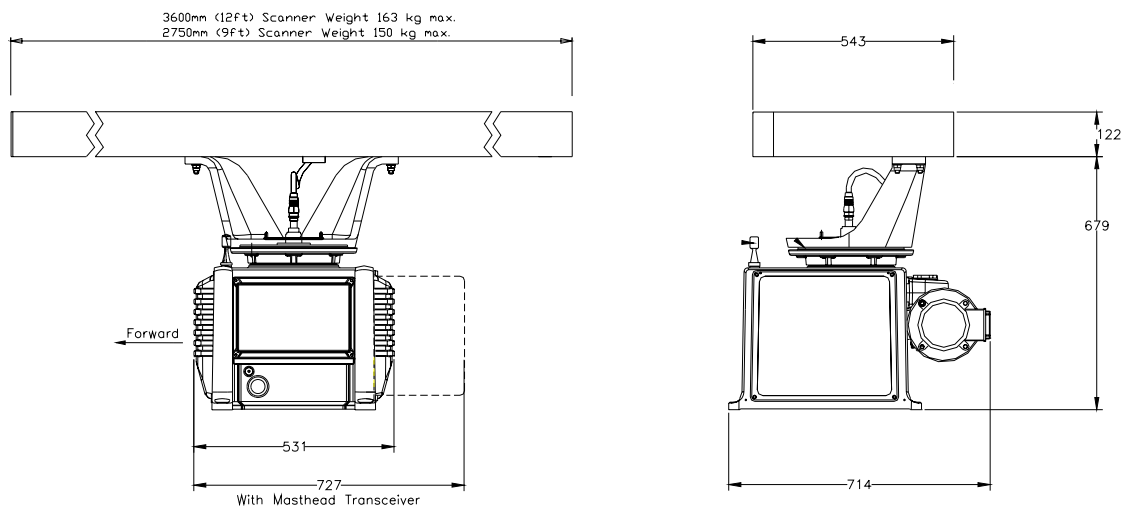
'Vision' automatic clutter control system.
Internally fitted Performance Monitor
Masthead or Bulkhead mounted Transceiver
External trigger input
Radar silence input
Pre-trigger output

Configuration

Transceiver either integral with turning unit or separately housed for bulkhead installation

Weights and Dimensions

Note: Weight includes transceiver



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