NORTHROP GRUMMAN

BridgeMaster E

180 and 250 EPA (L) Series of Marine Radars

Sperry Marine

BridgeMaster E 180 and 250 EPA (L) Series of Marine Radars

BridgeMaster E EPA (L) Key Highlights

- Proven BridgeMaster E technology
- Fully type approved
- Choice of 180 and 250 mm Flat Panel TFT Displays
- EPA Plotting facility
- Exceptional performance in clutter
- Simple, straightforward operation
- Choice of control configuration
- Fast, easy installation and commissioning
- Internal map storage
- Choice of AC or DC power
- Configurable guard zones & index lines
- Worldwide service support

A Tradition of Innovation…

The BridgeMaster E series of type approved marine radars continues the tradition of innovation well established by Decca over more than fifty years. The EPA (L) (Electronic Plotting Aid) series offers a choice of configurations and options and is specifically designed to meet the demanding needs of service craft, work boats, fishing vessels and ships which are required to carry EPA radars under the IMO carriage rules.

…And Reliability

The EPA (L) range is based on the highly acclaimed BridgeMaster E radars with proven "at sea" reliability. Since its introduction in 1999 many thousands of BridgeMaster E systems have been successfully installed on all types of vessels worldwide.

Designed for tough working environments

The EPA (L) series is suitable for the toughest working environments. As standard the EPA (L) radars incorporate:

- Exceptional target detection and performance in adverse weather conditions.
- Extremely robust power supplies, employing the latest power factor correction techniques, which allow it to operate over a very wide voltage range of 92V to 276V, 47 to 64Hz. This ensures that the radar remains operational even with severe ship's power fluctuations.

- Meets the Russian Register of Shipping minimum operating temperature of -40°C for the turning unit and transceiver.
- Rugged construction.

Type Approval

IEC 60945 (Environmental)
IEC 60936-1 (Radar Performance)
IEC 60872-3 (EPA Performance)

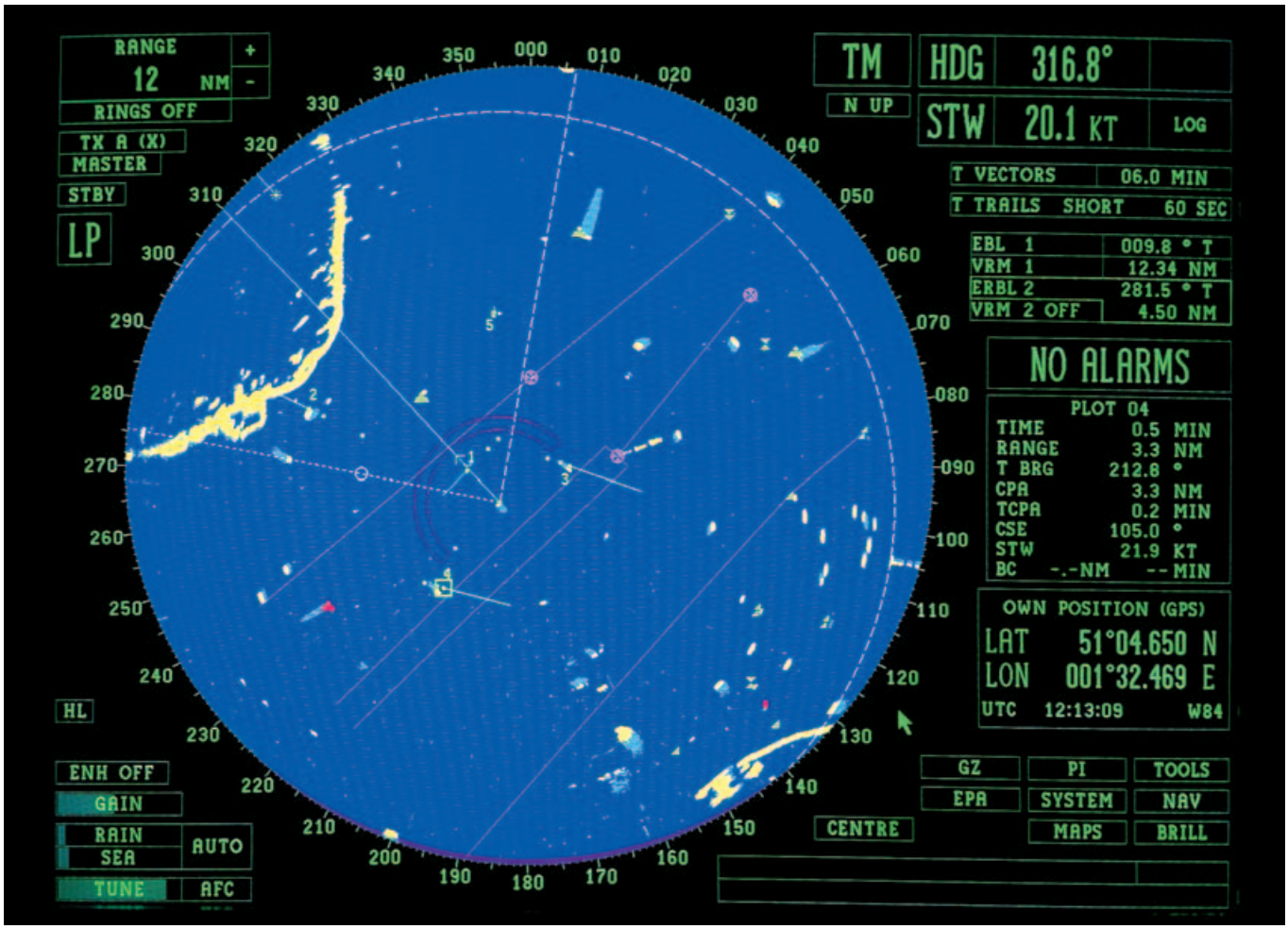
Simple Installation

As with all Sperry Marine BridgeMaster E series of radars, an important factor in the design is ease of installation and commissioning.

Serial data is used to communicate between the transceiver and display which greatly reduces the amount of cabling needed. The optional performance monitor is built into the turning unit eliminating a need for separate installation kits.

BridgeMaster E 250 EPA (L) Flat Panel

BridgeMaster E 180 EPA (L) Flat Panel



Navigation Data

The Sperry Marine BridgeMaster E radars accept navigation data directly from compatible navigation sensors.

In addition to own ship's position and cursor latitude and longitude, the radar can display the vessel's voyage plan. This provides the operator with an immediate indication of whether own ship is on track. This feature is particularly valuable for stand-alone radar installations where an Electronic Chart System (ECS) is not available.

With a navigation sensor supplied by Sperry Marine, the radar will display the previous and next nine waypoints.

Plotting

The Sperry Marine BridgeMaster EPA (L) electronic plotting aid has the ability to manually plot up to ten targets simultaneously, with comprehensive data for each target displayed.

Radar Maps

The Sperry Marine BridgeMaster E EPA (L) radar maps are constructed by the operator in a multi-layer format allowing the operator to select different information to be displayed on the radar screen. The color and symbols comply with the requirements of the IEC specification for radar maps. Data is automatically aligned through the navigation input and maps are stored internally within the system.

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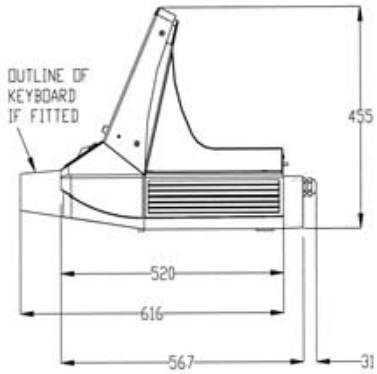
Product Information

- Fully type approved EPA radar (wheel marked)
- 4', 6' or 8' antenna
- 10kW or 25kW X-Band transceivers
- Two NMEA 0183 serial inputs
- Interfaces to most standard compasses
- Optional performance monitor as required for SOLAS vessels
- Built-in map storage
- Trackerball or joystick control

BridgeMaster E 180 EPA (L) – High Resolution Flat Panel

Weight: 28kg

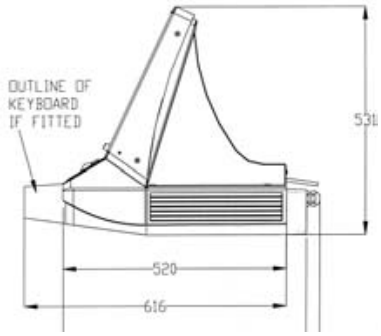


Display Power Supplies

Nominal input
AC 92V – 276V
47 – 64Hz
DC 24V – 32V (180's only)
Consumption:- All models 280W. max.

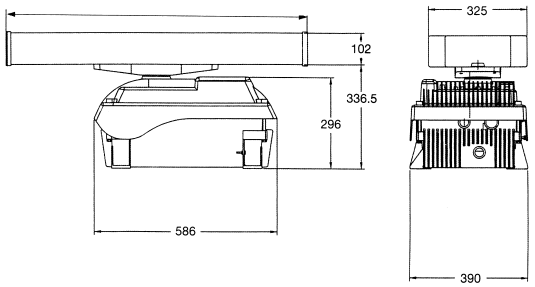
BridgeMaster E 250 EPA (L) – High Resolution Flat Panel

Weight: 51kg



BridgeMaster 3cm Scanner (Comprising Antenna and Turning Unit)

2535mm (8ft) Scanner Weight 55kg max.
1920mm (6ft) Scanner Weight 52kg max.
1310mm (4ft) Scanner Weight 50kg max.



Scanner Power Supplies

Nominal input

10kW Tx/Rx standard speed – 210W
10kW Tx/Rx high speed – 330W
25kW Tx/Rx standard speed – 250W
25kW Tx/Rx high speed – 370W

25kW – AC 92V – 276V
10kW – AC 92V – 276V
DC 24V – 32V

ATA and ARPA Radars

A complementary range of ATA and ARPA radars based upon the same radar technology (the BridgeMaster E ATA and ARPA series of Marine Radars) is also available and featured in a separate brochure.

Sperry Marine, with worldwide headquarters in Charlottesville, VA, and major engineering and support offices in Melville, NY, New Malden, England, and Hamburg, Germany, is part of the Northrop Grumman **Electronic Systems** sector.

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