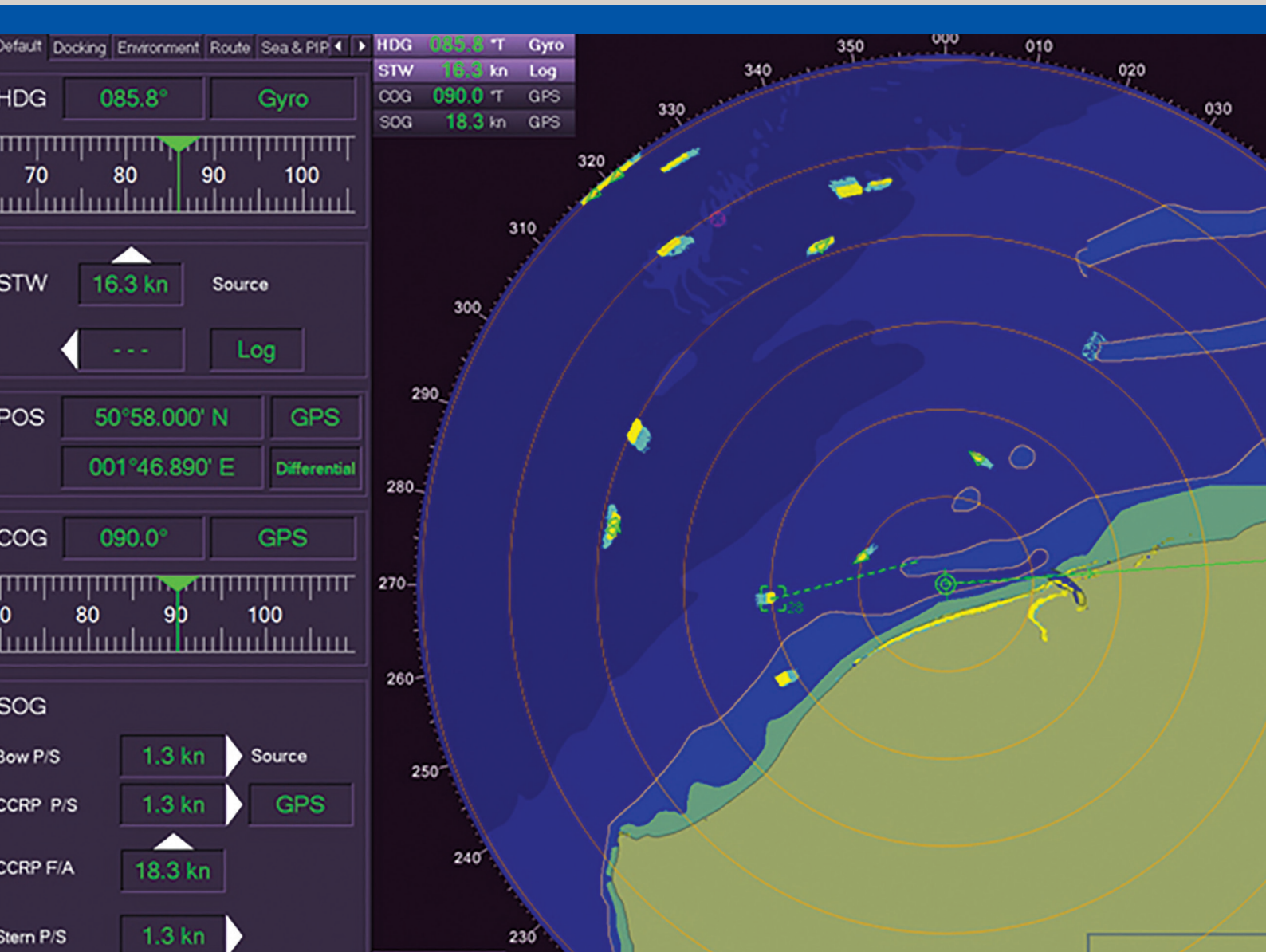


Sperry Marine

VisionMaster FT Chart Radar



Combined Electronic Chart and
Radar Displays for Enhanced
Efficiency and Safety

VisionMaster FT Chart Radar

Full radar picture with ENC charts for your safety at sea

Combining electronic chart display with full radar functionality for improved efficiency and greater safety.

The VisionMaster FT Chart Radar integrates official ENC vector-format charts with a full radar picture to provide improved watchkeeping efficiency and safety at sea.

Features & Benefits

With intuitive, easy-to-use operation, VisionMaster FT Chart Radar delivers clear chart radar images under extreme weather conditions, offering effective support for collision avoidance.

The Chart Radar offers many benefits, including:

- Improved convenience and safety
- The navigational safety of VisionMaster FT Radar
- Full upgradability
- Flexible configurations
- Meeting IMO performance standards
- Improved Convenience and Safety

Ease in Use

The VisionMaster FT Chart Radar provides a clear user interface, with all information easily available at a glance. It incorporates all the benefits of the VisionMaster FT Radar, but adds much more functionality and flexibility, with a high-resolution widescreen display for a clearer, brighter picture of electronic charts, displayed parallel to the radar image.

ENC Charts

You may easily upload ENC charts from CDs, DVDs or USB sticks, and then overlay them on the radar screen, for greater ease of navigation and improved safety. The density of information is selectable to suit user requirements, from a simplified presentation of shoreline and navigational aids to a fully detailed display.

A choice of five day or night display modes provides maximum situation awareness, with the option of a filled or unfilled picture and a library of chart objects to enable you to customise the display.

All the Navigational Safety of the VisionMaster FT Radar

The performance of the VisionMaster FT Chart Radar is underpinned by the advanced features of the VisionMaster FT Radar, to provide safe navigation under extreme conditions. Key benefits of the VisionMaster FT Radar include:

- Advanced, automatic, clutter suppression for easier detection of small targets
- Clear radar images, even under rough weather conditions, with automatic clutter suppression
- User-friendly interface and intelligent functionality
- Tracks up to 100 radar and AIS targets
- Digitally controlled interswitching allows the interface of up to six transceivers to up to six displays, resulting in screen redundancy and flexibility
- Network-based architecture for easy data distribution

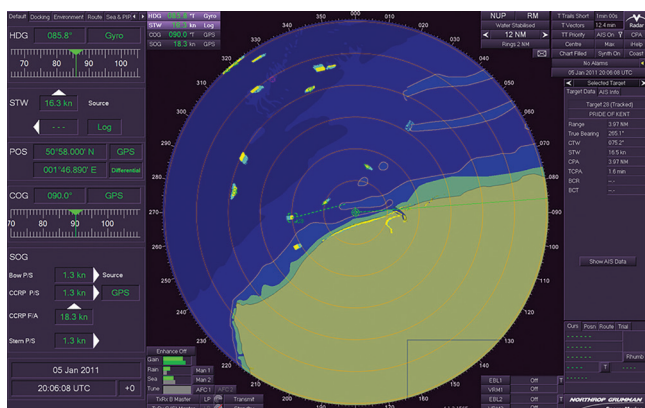


Chart Radar Widescreen

Full Upgradability

The standard user interface of the VisionMaster FT series makes it easy for you not only to upgrade from Radar to Chart Radar, but also to add a further wide range of options. Recognising that users have different needs over time, we have also incorporated a simple built-in upgrade path, to enable a complete TotalWatch multi-function workstation, to easily display Radar, Chart Radar and ECDIS.

You can tailor your VisionMaster FT Chart Radar to suit your own specific needs, so enhancing situational awareness and navigational safety. Additional options include:

- CCTV
- 3D vision
- Conning information display
- Playback
- Dual Channel Radar to eliminate blind arcs

Regular Software Updates

We also provide regular software updating of the latest features and industry requirements, to ensure that your VisionMaster FT Chart Radar always operates at full functionality.



Integrated tabletop

Flexible Configurations

In order to meet the different needs of vessel types and operational scenarios, the VMFT Chart Radar is available in various formats and with a wide range of interswitchable X- and S-band configurations.

VisionMaster FT 340 deck standing, desk top & kit format Radar

The VMFT 340 contains a 25.5" widescreen including the Conning Information Display and radar in high resolution, a processor and interfaces, a single compact console and an antenna unit (S-Band or X-Band).

VisionMaster FT 250 Integrated tabletop & kit format Radar

The VMFT 250 Radar gives vessels the automatic tracking and plotting technology in a compact and easy-to-install package. The 250 Radar contains a screen, processor and interfaces, single compact console and antenna unit (S-band or X-band).

The VMFT Chart Radar is easy to install as a stand-alone, multi-node system or as a client server radar system via an ethernet network.

Unique Performance Monitoring Display

The VMFT Chart Radar provides a unique Conning Information Display (CID) tab, which displays key readouts for efficient vessel monitoring. The CID can display information from most of a ship's sensors, to present a range of important information, including docking, propulsion, voyage plan status, primary navigation and manoeuvring. The CID also reduces the cost of systems that permanently display the CID output.

Instant Help

We have incorporated an extensive, context-sensitive iHelp facility, which allows the user to quickly search the operator's manual or access information relevant to the functions on the Chart Radar screen.

Type-approved Performance

The VMFT Chart Radar is type-approved to IEC/EN 62388 standards, IEC60945 and IEC62288.

The VisionMaster FT Chart Radar is also type-approved by the China Classification Society and Russian Maritime Register of Shipping.

24/7 Support

The Chart Radar, like all Northrop Grumman Sperry Marine systems and products, is supported by the world's most extensive worldwide service network. Northrop Grumman Sperry Marine's global service network provides prompt shipboard maintenance and repair services in every major seaport in the world – 24 hours a day, 365 days a year, minimizing equipment downtime and in-port turnaround times.

Technical Specifications

- Display size: 250 or 340mm PPI
- Display Configuration:
 - Deck Standing 340
 - Desktop 340
 - Kit Format 340
 - Deckstand 250
 - Kit Format 250
 - Integrated Tabletop
- Processor types:
 - Single Channel: CAT 1 & CAT 2
 - Dual Channel
- Antenna size:
 - X-Band 4', 6' or 8'
 - S-Band 12'
- Transceiver Power:
 - Aloft Transceiver (UPMAST) or Below Transceiver (DOWNMAST)
 - X-Band 10kW or 25kW
 - S-Band 30kW
- Rotation Speed: Standard or High
- MMI: Trackerball Control Panel



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A division of the Northrop Grumman Corporation, Sperry Marine provides a range of sophisticated navigation solutions for mariners around the world: autopilot and steering control systems, compass systems, integrated bridge and platform management systems, speed/velocity logs, navigation radar and ECDIS. Working with mariners around the globe for over 100 years.