

Sperry Marine

NORTHROP GRUMMAN

VisionMaster FT TotalWatch



**Multi-function Display
for Greater Safety and
Convenience**

VisionMaster FT TotalWatch

Ease of use. Peace of mind.

Single multi-function bridge display, providing all navigational needs in a single console, for greater safety and convenience.

The multifunction VisionMaster FT TotalWatch offers complete bridge manning display and flexibility, with a combination of navigational technologies at a single workstation. The VisionMaster FT TotalWatch easily displays radar, chart radar, ECDIS, conning information display or central alarm management to suit your different operational requirements and navigational situations.

The VisionMaster FT TotalWatch can be easily configured as a stand-alone workstation and employs a network-based architecture for easy data distribution on all displays, with an innovative user interface that shares commonality with all VisionMaster FT products.

With VisionMaster FT TotalWatch, you can have at your fingertips all of the many benefits of the range of Northrop Grumman Sperry Marine's successful VisionMaster FT products used by the maritime industry around the world.

The VisionMaster FT TotalWatch provides many important benefits, including:

- Single bridge display for greater convenience
- Ultimate situational awareness
- Reduced costs and manning needs
- Admiralty Information Overlay (AIO) support
- Upgradability and optional features

Single Bridge Display for Greater Convenience

The multifunction VisionMaster FT TotalWatch offers you complete control and flexibility for bridge manning, enabling simultaneous applications to be executed on one workstation with easy switching between them. You can instantly select any VisionMaster FT function, to suit the navigational situation.

With a common user interface in all watch modes for safe operation, the VisionMaster FT TotalWatch provides an intuitive user-friendly interface. Any combination of workstation functions and watchkeeper manning

configurations can be created quickly and easily to suit user needs, providing navigation data for any watchkeeper at any given time.

Ultimate Situational Awareness

The VisionMaster FT TotalWatch represents the ultimate in situational awareness for the navigator, providing you with safe navigation in maximum confidence.

All navigation data is available at any time, maximising situational awareness for each bridge watchkeeper, increasing safety and enhancing navigation performance. Available watch modes include:

- Radar
- Chart radar
- ECDIS
- Playback
- Central Alarm Management
- Conning Information Display
- Third Party Applications

Reduced Costs and Manning Needs

The VisionMaster FT TotalWatch provides the ultimate in flexibility and redundancy for bridge configuration and manning.

With a combination of navigation technologies in one console, the VisionMaster FT TotalWatch supports single watchkeeper bridge requirements and maximises system availability. It also enables reduced manning, so lowering costs as well as reducing the need for training, as it shares the common interface for all VisionMaster FT functions.

Admiralty Information Overlay (AIO) support

The VisionMaster FT series fully supports the Admiralty Information Overlay (AIO) to make passage planning easier and safer, by keeping track of the latest electronic navigation chart (ENC) updates.

The AIO includes all temporary and preliminary notices to mariners (T&PNMs), as well as additional navigational significant information from the UKHO's ENC validation programme, displayed as a single layer on top of the chart. This also enables shipping companies more easily to comply with port state control requirements, by providing T&PNMs where they do not currently exist in ENC coverage.

Upgradability and optional features

We recognise that your needs may change over time, so have incorporated a simple built-in upgrade path, to enable you to transform any of the VisionMaster FT series into a complete TotalWatch multi-function workstation. TotalWatch is easy to install, whether in new-build or as a fully compatible retrofit.

The VisionMaster FT TotalWatch offers a wide range of optional functions to further improve safety or provide additional important information.

These include:

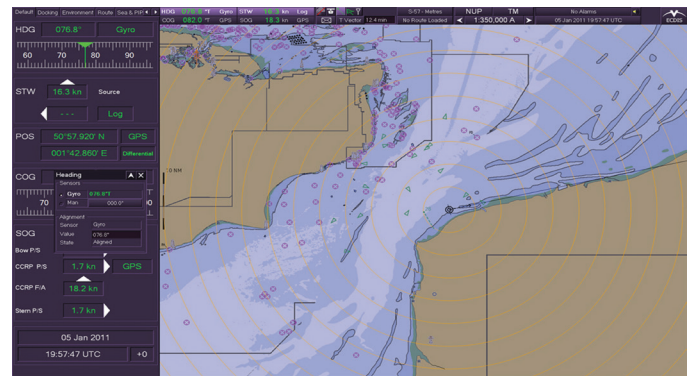
- Track and speed control
- Unique 3D Vision and sonar
- Joystick heading control
- Dual Radar, to eliminate blind arcs
- ECDIS with radar overlay
- CCTV
- Fuel Navigator: the first model-based route optimisation system seamlessly integrated with an ECDIS to reduce fuel costs.

Instant Help

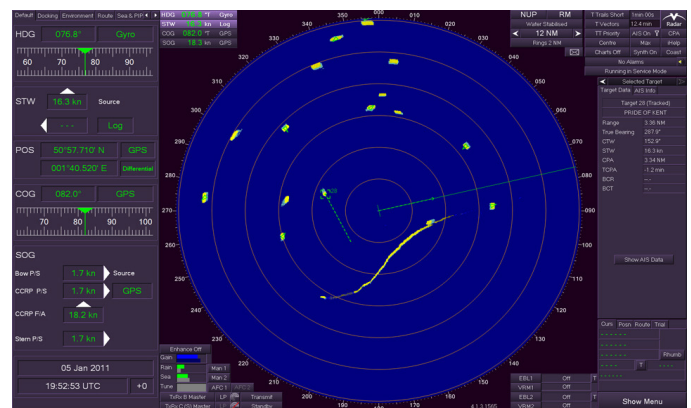
We have incorporated an extensive, context-sensitive iHelp facility, which allows the user to quickly search the operator's manual or access information relevant to the functions on the TotalWatch screen.

Type-Approved Performance

The VisionMaster FT TotalWatch is type-approved to comply with IEC60945 edn 4, IEC62388 edn 1, IEC62288 edn 1 and IEC61174 edn 3.



ECDIS with Radar Overlay widescreen



Radar widescreen

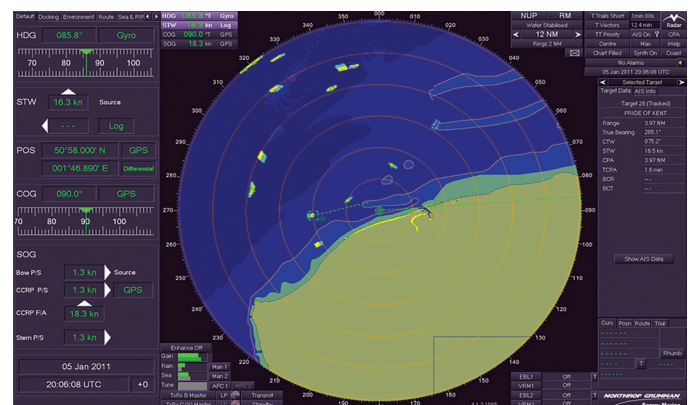
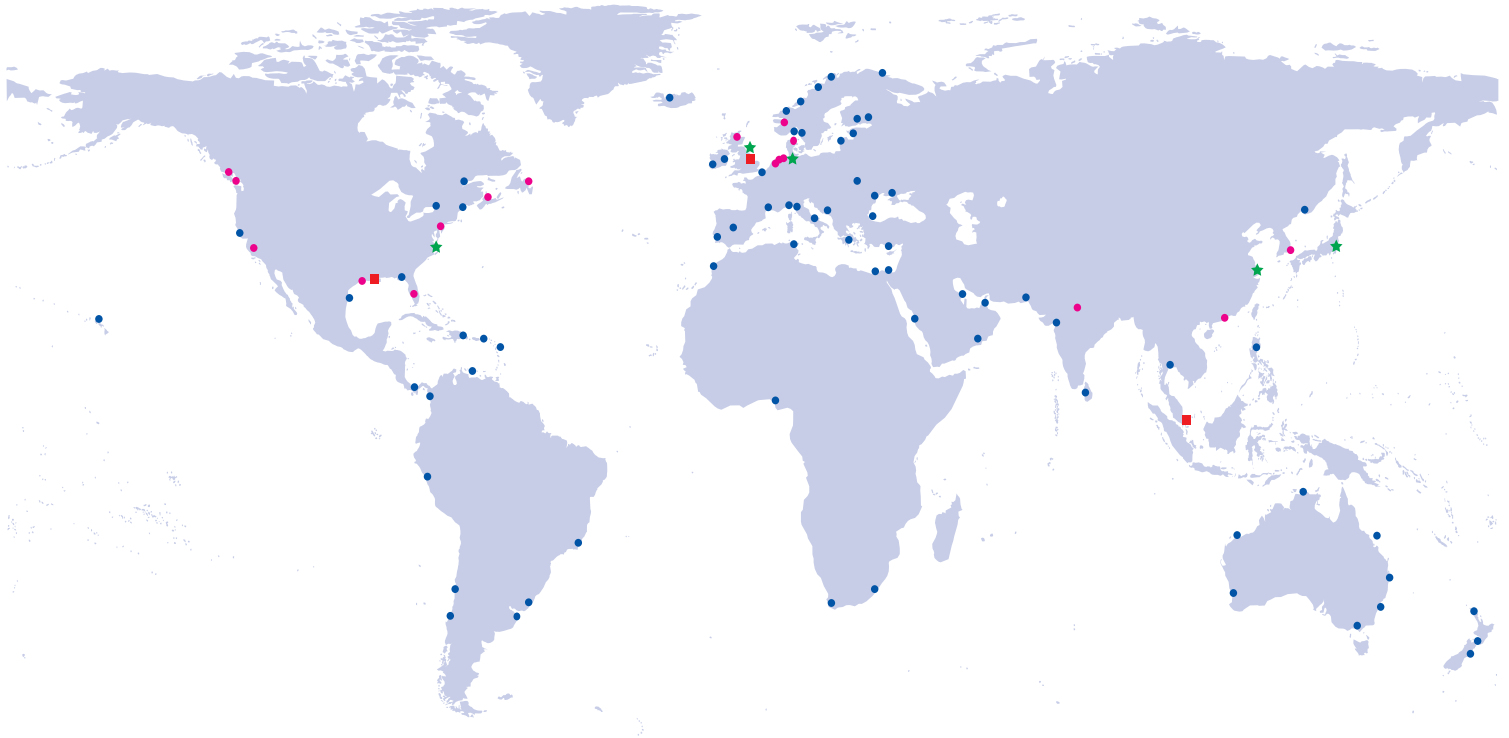


Chart Radar widescreen

24/7 Service

Our 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.



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www.sperrymarine.com

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 navigation and bridge systems, integrated platform management systems, speedlogs, navigation radar and ECDIS. Working with mariners around the globe for over 100 years.