

NAVIGAT X MK1 and MK2 Upgrade

Bring your compass system to the next level



Maximise security and ensure continuous availability by upgrading spinning mass gyro to a networked compass system platform.

Your vessel's heading accuracy and operational availability depend on a reliable compass solution. As spare part availability for NAVIGAT X MK1 and MK2 is not guaranteed any longer, Sperry Marine delivers a structured upgrade path to modern gyrocompass and heading management technologies, maximising reuse of existing components while minimising downtime and enhancing digital performance.

Why upgrade?

For decades, the NAVIGAT X MK1 and MK2 have delivered proven reliability. As these systems are discontinued and spare part availability is limited, upgrading is the most effective way to maintain vessel availability, reduce operational risks, and modernize your heading management system.

Sperry Marine provides a flexible upgrade path for the master compass that re-uses valuable components such as the MOD 10/4 container and, in most cases, the gyrosphere while keeping the same footprint. This minimizes cost and installation work while giving your vessel the benefits of the latest digital technologies. Multi sensor systems benefit from CompassNet, the heading management and distribution system, which provides an open platform for integration of up to four heading sensors and additional magnetic compass.

From analog to digital – smarter heading performance

- Sensing with unique digital pick-up technology and low settling time for a reliable heading at the highest accuracy
- All sensors integrated into CompassNet for redundancy and maximum uptime
- Well-proven technology with the longest system life
- Expertly maintained by certified Sperry Marine Service Engineers

Cost-efficient by design – making best use of the gyrosphere life-time

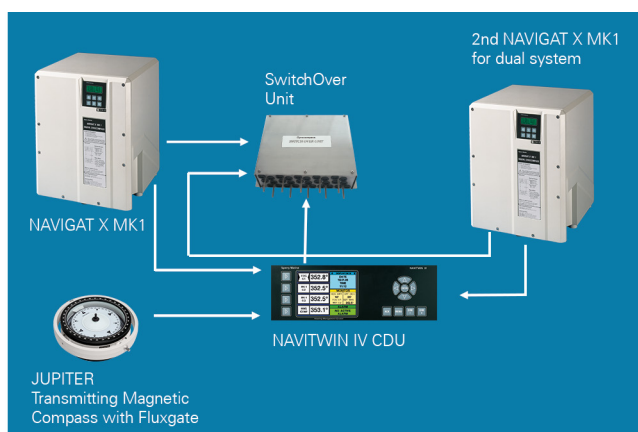


The gyrosphere is the heart of your compass system – and in most installations, it can be retained. This approach results in fast upgrades, minimal interruption whilst keeping costs to a minimum.

The evolution of compass system technology

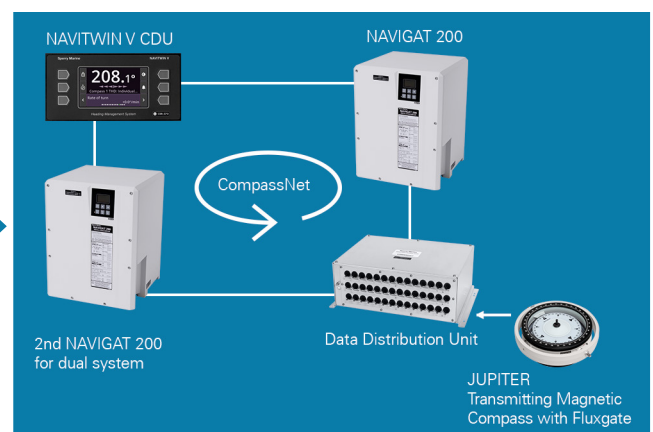
Legacy NAVIGAT X MK1/MK2

- Analog electrical pickup signals
- Over 130 wires without repeater / data connection
- NAVITWIN IV control & display unit
- More complex installation and higher maintenance



Next generation NAVIGAT products + CompassNet

- Digital camera-based pickup signal detection
- Less than 20 cables using plug and play network approach
- Modern NAVITWIN V control & display unit
- Integrated CompassNet heading management system



Benefits at a glance

Operational upgrade benefits

- Reduce risk, control costs
- Avoid costly emergency call-outs
- Plan installation ahead
- Warranty on all replaced components according to Sperry Marine T&Cs
- Sufficient availability of spare parts globally to ensure faster support during maintenance work

Technological upgrade benefits

- Simpler, safer management of all components through one common CDU as part of CompassNet
- Modern GUI for easier operation
- Higher precision and reliable digital signal transmission
- Faster installation with significantly fewer cables
- Lower downtime and reduced error sources
- Predictable lifecycle costs
- Compliant with Bridge Alert Management (BAM) according to IEC 62923-1 and 2 which is included in the Annex of the Implementing Regulation

Possible upgrade paths

Modernize a stand-alone single compass system

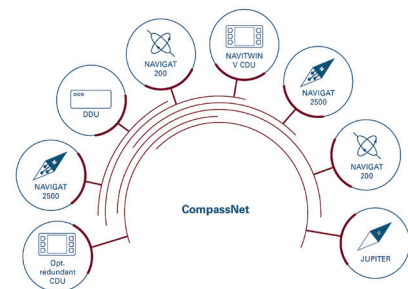
Our solution: Upgrade to NAVIGAT 100

- One single unit with the required interfaces to drive repeaters and provide heading information to navigation bridge
- Low lifecycle costs
- Short installation time
- Automatic north speed error correction
- High-speed follow-up (100°/sec)
- Upgrade paths to multiple compass systems are available
- Type approved to applicable MED, IMO, IEC standards and HSC applications

Modernize a multi-compass set-up with heading management system for two or more sensors

Our solution: Upgrade to NAVIGAT 200 multi-sensor system with CompassNet

- Modern NAVITWIN V display with intuitive GUI, controlling multiple heading sensors
- Redundant central data distribution unit (DDU), managing outputs for up to four heading sensors and additional magnetic compass
- Seamless integration of legacy and third-party sensors
- Flexible future expansions (e.g. NAVIGAT 2500 / 3500 FOG sensors)
- Type approved to applicable MED, IMO and IEC standards



The cost efficient alternatives

Partial upgrade of your existing compass system

- Reuse of MOD 10/4 Container
- Reuse of Gyrosphere
- NAVIGAT 100M – New upgrade path to further use existing NAVIGAT 100 with CompassNet

Let's find the right upgrade for your compass system

Book a free consultation with your Sperry Marine Sales contact or email sales@sperrymarine.com to identify the best upgrade option for your existing compass system.

You may also be interested in:



CompassNet
Versatile and efficient heading management system.



NAVIGAT 200
Low maintenance networked spinning mass gyro compass.



NAVIGAT 100
Most reliable standalone spinning mass gyro compass.



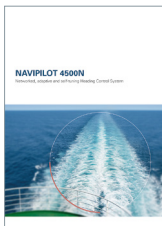
NAVIGAT 2500
Networked fiber optic gyro compass with longest system life.



NAVIGAT 3500
Networked fiber optic gyro compass and motion reference unit for highest heading accuracy.



JUPITER & NAVIPOL
Magnetic flat glass compass and binnacles for adding primary compass back-up.



NAVIPILOT 4500N
Networked, adaptive and self-tuning heading control system.



VisionMaster ECDIS
Industry-leading route planning and monitoring.

Global Service and Support

Sperry Marine provides service and support on a 24/365 basis at every major port worldwide, at anchor, offshore and at sea. All Marine Service Engineers are all certified to ensure they install, maintain and repair our products to the industry's highest standards on a consistent global basis. Please see www.sperrymarine.com/services for full details of all our service locations.

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