



System Key Features & Technical Specifications



SYSTEM KEY FEATURES:

- Central mission control
- Vessel operation data in cloud
- Realtime data and visual feedback
- Fleet monitoring and voyage data analysis tools
- Data collection enables fuel optimisation and hereby reducing carbon emissions

- Intelligent route planner
- Predefined sub navigation patterns
- Autonomous assisted situational awareness and navigation
- Enhanced safety with AI capabilities
- Reduced risk caused by human error
- Near misses detection

- Targeted for smaller vessels and unmanned drones
- Integrates with existing navigation systems
- Retrofit for existing vessels and on new builds
- Supporting fully unmanned operations

LEVELS OF INTEGRATION:

- AI-powered collision avoidance
- Route planning and awareness assisted navigation
- Integration with vessel control and propulsion system
- Remote vessel and mission control

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TECHNICAL SPECIFICATIONS:

PHYSICAL PARAMETERS

- 8U x 19' rack unit for bridge systems
- Optional IP-rated aluminium casing for open deck vessels
- Satellite 12' touch display

NETWORK AND POWER CAPABILITIES

- Integrated power supply or connection to vessel 48/24 volt DC
- Ethernet RJ45 connections
- CAN Bus
- RS-485 and RS-232 ports
- NMEA 183 and 2K support
- Custom interfacing with existing actuators and drive systems

SENSOR INTEGRATION

- Radar
- Lidar
- AIS
- GPS / GNSS
- IMU
- Camera daylight and thermal
- mmWave
- UltraSound
- Echo sounders multi and single beam

SYSTEM

- Server client cloud based system
- Continuous operation with connection drop
- Encrypted data transmission
- Online maintained and upgraded for future options
- Full organisation and user rights management
- Customisable user dashboard
- Utilises IHO S-57 / ENC seamap data
- Supports 4G/5G and SatCom uplink
- Supports integration to auxiliary navigation units eg. searchlights, winches etc.
- Backbone support for payload data uplink and onboard storage
- Supports standard network protocols

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