

BRIDGEGARD

INTEGRATED BRIDGE SYSTEM

The **Integrated Bridge System, BRIDGEGARD** represents an **innovation in maritime technologies**, enhancing **operator situational awareness** by eliminating **duplicated information and hardware**, while still maintaining the necessary **system redundancy**. BRIDGEGARD provides **concise and up-to-date information** through **multifunction displays** and **overlay features**, offering a **uniform and consistent interface** for operators and maintainers. This **integrated and turnkey solution** ensures **exceptional ease of use**

and maintenance, with **full integration** to **navigation equipment and sensors**. The design of BRIDGEGARD complies with **International Maritime Organisation (IMO) requirements**, featuring a **modular architecture** and **standard interfaces** that allow for the **efficient integration** of all sensors, making it adaptable to the specific needs of customers. This **turnkey approach** ensures a **complete and highly efficient navigation system**.

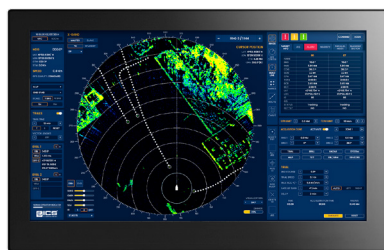
KEY STRENGTHS

- Enhanced Operator Situational Awareness:**
 The system eliminates duplicate information, ensuring operators can easily access critical data. By integrating navigation equipment and sensors, it provides rapid access to essential navigational information, enhancing situational awareness and reducing confusion in complex environments.
- Concise and Up-to-Date Information Display:**
 Multifunction displays and overlay features present real-time data, improving efficiency and usability. This streamlined information delivery supports quick decision-making and reduces cognitive load on operators.
- Modular Architecture and Standard Interfaces:**
 The modular design allows for easy sensor integration and adaptation to customer needs. Multifunction consoles provide redundancy in software applications, ensuring reliable operation even if an hardware component fails.
- Secure Integrated Navigation System:**
 The system operates on a secure software platform, enhancing protection against cyber threats. This security ensures data integrity and system reliability, safeguarding sensitive information from unauthorized access.
- Advanced Radar and Detection Technologies:**
 The system integrates a wide range of next-generation X and S-band solid-state radars, featuring Doppler processing and enhanced tracking capabilities. These advancements improve target detection and tracking, ensuring superior navigational accuracy and situational awareness.
- IMO Compliant Modular Design:**
 BRIDGEGARD meets IMO standards with modular architecture, enabling seamless sensor integration and adaptability, ensuring compliance, safety, and reliability for diverse maritime needs.

MULTIFUNCTION TASK SOLUTIONS

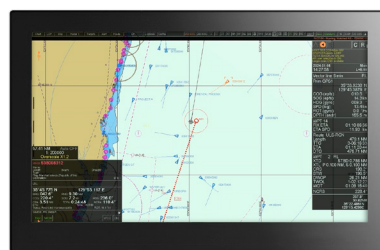
ARPA

HMI for radar navigation and ship collision avoidance, with enhanced multiple target tracking



ECDIS

Electronic Chart Display and Information System



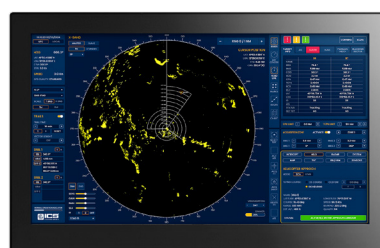
CONNING

Integrates navigation data, displaying critical ship information



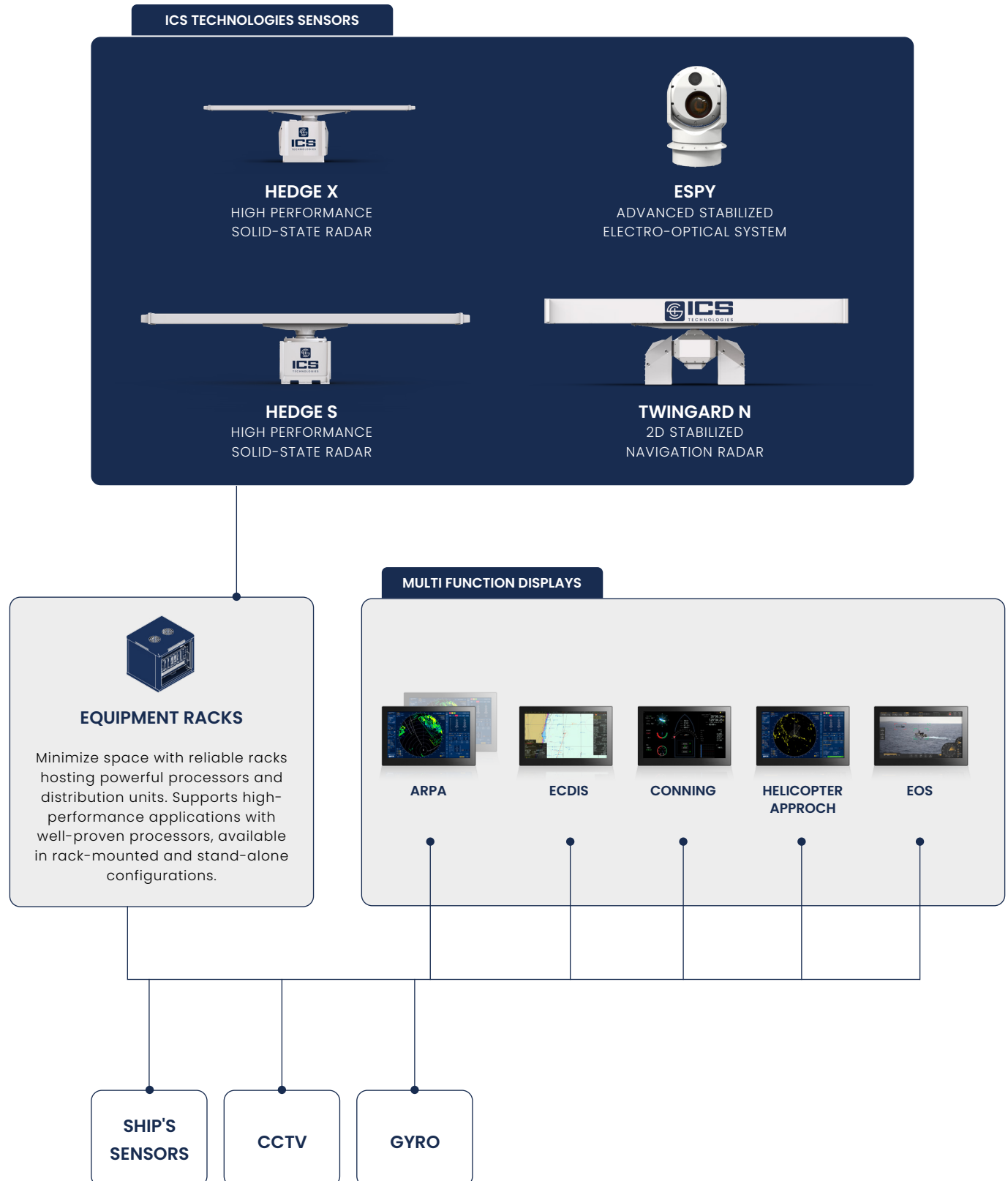
HELICOPTER APPROACH

Aids crews in helo decking approach, for safe shipboard landings



SYSTEM ARCHITECTURE

BRIDGEGARD enhances maritime operations by consolidating critical navigation components into a unified, user-friendly interface. This system improves **situational awareness**, **operational efficiency**, and **security by integrating advanced technologies** and **real-time data access**. Below is an overview of BRIDGEGARD's key functionalities and components.



INTEGRATED LOGISTIC SUPPORT



Longevity, Reliability, Remote Support

To **enhance efficiency** and **reduce costs**, our systems offer **full remote access** for **direct transmission of diagnostic logs**, minimizing onsite visits, reducing **operational expenses**, and improving turnaround times. Our Service Level Agreement (**SLA**) ensures this **efficient support**. Each Line Replaceable Unit (**LRU**) has a **QR code for quick information access**, improving communication and service responsiveness.



Client-Centric Support

We prioritize client support throughout the entire process. Our technical team conducts **on-site system commissioning**, including **standalone** and **live tests** in various environmental conditions alongside cooperating vessels. Comprehensive **technical documentation**, structured with DataModules following the **S1000D standard**, accompanies our systems.



After-Sales Services & SLA Options

We offer **after-sales services** such as **installation and maintenance courses**, along with an advanced **ticketing platform** for streamlined communication. Our maintenance services, including preventive, corrective, and **SLA options**, are tailored to meet the specific operational needs of our customers. We have **service centers** strategically located across the globe.



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