Servowatch - INBS Incorporates:

Navigation
Servowatch INBS features the integration of all navigation sensors, providing a comprehensive ship data information package which is distributed on redundant networks. Primary control systems are the radar and ECDIS. Selection of upmast and downmast, transmitters, display configuration, and high speed variants provide a flexible package content. Latest development allows integration of S & S band videos on a single display option and merging of signals to nullify shadow sectors. With ECDIS providing an inter-active track control capability, and an independent manoeuvring / monitoring display, our INBS is the mariner’s preferred choice. The “Watchkeeper Plus” package enables bridge watch monitoring and an ability to prioritise alarms, centralise alarm management, and to transfer alarms or alerts to external cabins. The data integration between all navigation and ship control systems enables an independent conning and manoeuvring display to be created, suited to the exact vessel requirements. Servowatch now offers full multifunction capability within a type approved package, providing an advanced solution for specialist vessels.

Route Planning and Monitoring
The route planning and digitising function provides planned information for display and execution on radar and ECDIS displays. A suite of planning tools is provided within the ECDIS software or data may be transferred through to other devices. Where classification requires a back-up, the route planning terminal will duplicate ECDIS functionality. Planned routes are checked against vectorised chart data for compliance with programmed safety parameters.

Nautical Instruments
A complimentary level of nautical instruments including navigation lights, sound signal devices, sound reception, hoisting searchlights with remote or manual control, and floodlights are featured with local control panels built into the consoles. To meet HSC regulations or night time security applications, a range of fully approved night vision packages with infra-red, image intensifying or thermal imaging components is available. Imaging may be integrated into the ship monitoring and control stations together with CCTV options.

Communication
A full GMDSS package with options for all sea areas is available. Satellite packages including Inmarsat B, C, F3, F5, F77 and V-Sat can be provided with traffic account management services tailored to the vessel / owner’s specific needs. The acclaimed IMCOS™ integrated internal communications and entertainment package minimise weight and cable and is tailored to any Class requirements. IMCOS™ provides integrated Public Address, Intercomms, PARX and Emergency Call circuits with a direct link into the ship alarm and monitoring system. The entertainment facilities provide selection and routing of multi-media and the popular Passenger Information System. Our dedicated team of designers will advise customers and plan the requirements based upon the finalised GA of the vessel. For applications where secure or integrated communications are required, the highly specialised DataMaster 3800 package is offered (details on request).

INTEGRATED NAVIGATIONAL BRIDGE SYSTEM

(INBS)

INBS - (Innovative Navigation Bridge System) - Lloyds Award for Software Innovation.
Information to the right place defines survival, safe operation, efficiency and ability to respond. WINMON™ is the tool that combines a tile layered graphic approach (TLG) for simplified information presentation. A user friendly interactive face for operation and maintenance places the package ahead of its rivals. Together with the flexibility to integrate third party software packages, the system develops into a comprehensive ship management tool.

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Servowatch - Reference Projects

Type: Lider, Slice Boat - Crew Carrier
Customer: FBMA / Lockheed Martin
Location: Philippines

Type: M/V Susitna, ferry - ice-capable vessel that can transition from barge to twin-hulled ship,
Customer: Alton Bay design / United States Navy Office of Naval Research Office
Location: USA

Type: Wight Ryder I, passenger catamaran
Customer: FBMA / Wight Link Ferries
Location: Philippines
The management and control of modern ships is becoming more complex and the requirement by ship-owners for a single source solution is growing. Ship-owners do prefer a level of hardware selection and Servowatch INBS provides the proven alternatives.

Servowatch INBS integrates all navigation, ship control, communication and automation systems into a single package with flexibility built in.

With solutions for all classes of vessel from super-tanker to superyacht, our system can be tailor made to integrate multiple systems that meet the requirements for one-man operation with complimentary watch monitoring alarm systems.

With the capability to distribute all ship control data on dual redundant networks, the operator will be provided with the best information and decision support system available today. With hardware built in to custom designed consoles the integrated functionality typically would include:

- Navigation Control including Route Planning, Monitoring and Execution, Radar and ECDIS,
- Navigation Sensors and Instruments
- External and Internal Communications
- Ship Information Broadcast and Entertainment Management
- Emergency and Ship Safety Information
- CCTV and Security Monitoring
- Alarm, Monitoring and Automation Control
- Propulsion Control (CPP, fixed shaft, azipod, joystick & dynamic positioning)
- Cargo Monitoring and Stability Computing
- Data Interface to Ship Management Software Package (option)
- MIL Spec and Commercial Sector

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Ship Control
The heart of any control system is the data fusion and integration for simple levels of understanding. Information is collected from all machinery sensors through fully flexible discreet pick ups or serial interfaces, and collectively distributed on the critical control network. This philosophy prevents any interruption to critical operations. Data is presented at workstations in customised mimic forms for machinery management, navigation appraisal and cargo monitoring. Serial links into external systems such as the Loadmaster™ stability programme, Voyage Data Recorder (VDR) and ship management software packages differentiates Servowatch INBS from the competitors. Incorporating automated power management, remote logic controlled functionality, propulsion control, diagnostics reporting, and remote telemetry options, the system becomes even more powerful.

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