

**Raytheon** Marine

# BridgeControl<sup>®</sup>

Raytheon Marine's  
Integrated Bridge System



Full Control at Your Fingertips

# BridgeControl®

- complete bridge system
- completely compatible subsystems
- flexible design
- easy to operate – simple to install
- turnkey solution from one supplier



## BridgeControl® System Line

ARPA Radars

Electronic chart systems

Navigation planning systems

Conning displays

Gyro compass systems

Magnetic compasses

Autopilots

Steering controls

Alarm units

Speed logs

Echo sounders

Wind meters

AIS Automatic Identification System

VDR Voyage Data Recorder

GPS

DGPS

GMDSS radio consoles

Inmarsat B, C, M

or mini-M

VHF radio telephones

MF/HF radio stations

Weather facsimile

Navtex receivers

EPIRB, SART

The Raytheon Marine Integrated Bridge System BridgeControl® is based on revolutionary designs which set new standards for functionality, operation and ergonomics.

Turn-key solutions including equipment, consoles, project engineering, factory acceptance test, supervision of installation, commissioning and crew training.

This Raytheon Marine One-Stop-Shop combines leading edge technology with standardised operator philosophy and documentation enabling ease of operation and familiarisation resulting in reduced bridge stress and thus a safer ship.

Unlike other marine electronics providers, our products are backed by a global service network of 30 spare parts depots and 300 service stations.

The modern, flexible design of the Bridge Control® can be used for all ship's bridges and all conceivable ship's operating requirements. The user-friendly technology designed for One Man Bridge operation reduces workload and stress.

The Raytheon Marine bridge concept achieves the goal of improving safety, efficiency and operational economy through functional integration of Radar, ECDIS and Track Controller.





Pathfinder®/ST MK2 ECDIS

## ECDIS

**Pathfinder®/ST MK2 ECDIS was developed according to the latest specifications of the IMO, IEC and IHO**

- worldwide chart coverage
- safety depth contour alarm (grounding avoidance) activates visual and audible alarms when the ship has deviated from the track, is nearing shallow water, has reached the wheel-over-point or infringes on safety zones
- screen size 21" or 29"
- route planning and route monitoring
- radar/ECDIS overlay



Pathfinder®/ST MK2 Radar

## Pathfinder®/ST MK 2

**Pathfinder®/ST MK2 Radar - the latest innovation in ATA/ARPA radar technology**

- color displays available in medium or high resolution
- easy to use with combination of traditional dedicated controls and point-and-click menu operating system
- superior target detection and clutter suppression including patented "rain rate process"
- high performance log receiver with 130dB dynamic range
- screen size 21" (12' PPI) or 29" (16" PPI)



NautoConning®

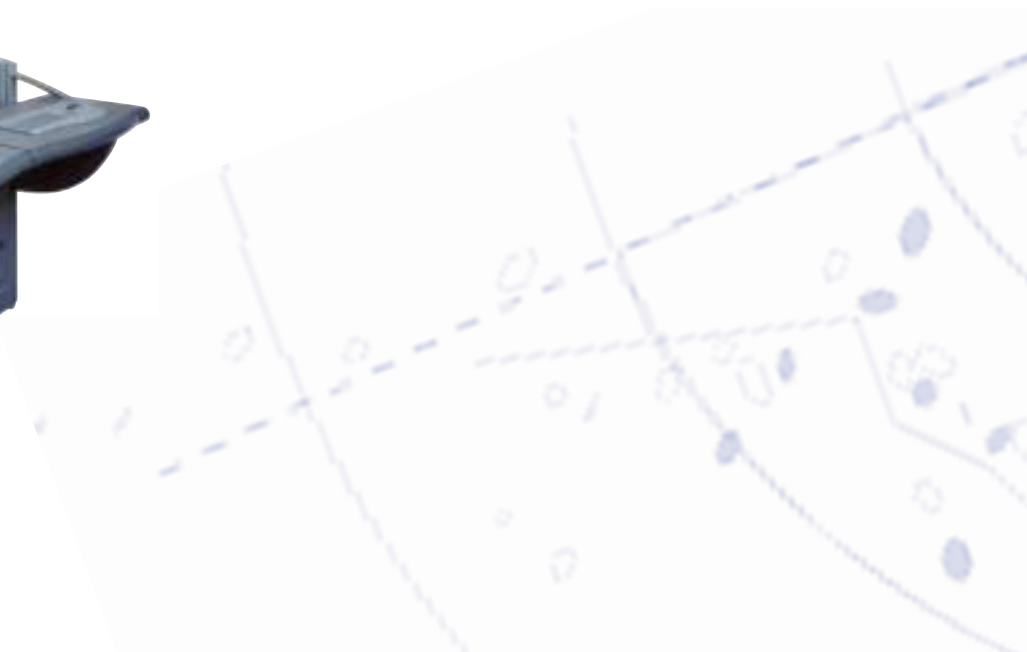
## NautoConning®

**NautoConning® is the central display- and management system for the ship's command.**

- navigation information display
- bridge alarm monitoring
- operator fitness check
- data logging
- sensor selection
- DNV alarm management



MFC - Consoles





GMDSS A3 Station

**GMDSS Station available in 250 W/400 W**

- modern technology
- easy operation
- high safety level
- simple installation
- compact design
- various console sizes
- integration with commercial communications
- worldwide Raytheon Marine service network



VHF-Radiophones



ComPilot® 20 Bridge Steering Stand

**Communication Systems**

**INMARSAT-B satellite communication systems**

- high quality digital voice at 16 kbps
- group III telefax at 9.6 kbps
- asynchronous data transmission up to 9.6 kbps
- high speed data transfer at up to 56/64 kbps
- TELEX at 50 baud (option)

S-Band Pedestal



Nera INMARSAT-B

**NautoSteer®**

**NautoSteer® Manual Steering Control System. Today, approx. 13,800 ships use Raytheon Marine steering control all over the world.**

- handwheels, tillers, FU and NFU
- standard systems and dual systems
- remote controls for bridge wings and other stations.
- emergency steering controls
- rudder angle indicator systems
- adaptable for any type of rudder/steering gear



GPS Antenna



AIS MX 420 Display

### Digital GyroCompasses.

A modern navigation system requires a high degree of automation with the highest level of safety.

- high precision
- fast follow-up rate
- speed error correction
- dynamic error correction
- self-aligning repeaters
- Rate-of-Turn Indicators
- gyro compass and TMC-combination
- fast settling



Standard 22

### Digital Gyro



NautoPilot® 2000 Series

### NautoPilot® 2000

**NautoPilot® 2000 series offers the following operational features.**

- adaptive, digital heading control
- precision and economy mode
- ECDIS trackkeeping function
- for One Man Bridge acc. to DNV-W1
- adaptable for any type of rudder/steering gear
- quick tune function for easy adaptation to the actual ship's behavior



### Modular Navigation Hardware

- tested as a system before leaving our factory. The modular construction allows simple installation on ships of any size and type.

