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WEBSITE





Integrated Marine Solutions Provider



*Integrated Marine
Solutions Provider*



MRC Inc. is a specialist in developing, supplying, and engineering marine navigational and communications equipment, as well as smart ship solutions, contributing to the shipbuilding industry for more than **60 years since 1961**.

Integrated Marine Solutions Provider

MRC manufactures navigation, communication, broadcasting equipment, and smart ship solutions such as ECDIS, RADAR, Digital Instrument Panels, public address systems, automatic telephone exchangers, and communal aerial systems for several kinds of vessels.

MRC occupies around 75% of the Korean shipbuilding market and exports products and solutions systems to Japan, China, Taiwan, Singapore, Vietnam, India, and countries in the Middle East. MRC is a long-established company in the South Korean shipbuilding industry and its equipment market, and it has successfully become one of the world's leading companies in this field.

Since 1992, MRC has supplied its originally designed communication systems to more than 11,000 vessels and offshore platforms.

Business Scope

Connection between ship and shore :
MRC makes it possible through technology.

Navigation Systems >> Communication Systems >> Commissioning >> Surveillance



History of MRC

- 1961. 08 Established as "BUSAN MARINE RADIO COMPANY"
- 1965. 01 Authorised classification in radio survey from ABS, Lloyd, DNV, and BV
- 1967. 11 Agreed technical agency with JRC Corporation (Japan)
- 1970. 03 Agreed technical agency with YDK Technologies (Japan)
- 1975. 11 Entity incorporated as Marine Radio Co., Ltd.
- 1983. 10 Manufactured DSB Radio Telephone, Frequency Counter, 2182kHz EPIRB
- 1987. 04 Manufactured VHF Radio & Telephone
- 1988. 10 Manufactured Public Address System & Communal Aerial System
- 1988. 11 Manufactured Telephone System (A/T, CBT, SPT, I.S. TEL) & Marine Clock System
- 1996. 02 Authorised classification in radio survey from NKK
- 1996. 10 Established Chenghak Building
- 1998. 12 Certified KR ISO 9001
- 1999. 11 Certified DNV ISO 9001
- 2004. 06 Certified DNV Type Approval for Sound Reception System
- 2006. 05 Certified LLOYD Type Approval for Public Address System: MPA-7000 Series
- 2006. 11 Certified CE mark for PA, TB, CAS, AT, CBT, SPT, and Clock
- 2008. 02 Certified DNV Type Approval for Public Address System: MPA-9000 Series
- 2009. 10 Certified RINA Type Approval for Sound Powered Telephone: LC-800 Series
- 2009. 11 Certified RINA Type Approval for MPA-7000 Series

Our Equipment In **10,000+** Vessels

60+ Years Of Experience

Internal Communication Systems

Smart Ship Solutions

Internal Network Systems

Navigational Equipment Engineering

- 2010. 02 Certified RINA Type Approval for Sound Reception System
Certified CE mark for MPA-2000 Series, AT MCX-2000/3000 Series, AT LC-212A/B, CAS-953, CBT LC-600, SPT LC-820 Series, Clock MCS-970/980, ISTELE LC-900, and Talk-Back MTB-5000 Series
- 2010. 04 Certified DNV Type Approval for SPT LC-800 Series
- 2010. 08 Certified DNV ATEX Type Approval for HS-10 Exde/30 Exde Speakers
- 2013. 12 Certified for Innovative Small Business (INNO-BIZ)
- 2014. 10 Certified DNV OHSAS 18001:2007
- 2015. 04 Certified DNV ATEX Type Approval for explosion-proof CCTV
- 2015. 10 Awarded Commendation as a Renowned Long-Lasting Corporation
by Small and Medium Business Administration
- 2017. 03 Certified IECEx Certificate of Conformity (Telephone LIS-114, LIS-117 / Telephone IBT-100, IBT-200)
- 2018. 04 Certified Designation Small Giant Company of Korea by Ministry of SMEs and Startups
- 2018. 07 Certified Promising Export Firm by Busan Regional SMEs and Startups Office
- 2019. 01 Certified Leading Company by Busan Metropolitan City
- 2020. 07 Certified IECEx Certificate of Conformity (Remote MPC-100IS & M7-IS / Barrier Box IBP-100)
- 2020. 10 Certified DNV ISO 45001:2018
- 2021. 01 Supplied to the 10,000th ship
- 2021. 07 Certified LR ISO 27001:2013
- 2021. 08 ECDIS certified by the Republic of Korea Government
- 2021. 11 Changed the name to "MRC Inc."
- 2022. 11 ECDIS EU MED certified by DNV
- 2023. 03 Track Control System (TCS) EU MED certified by DNV

Company concept



Experienced

MRC's experiences in marine systems started in 1961. No other equipment manufacturers here in Korea are as experienced as we are.



Integrated

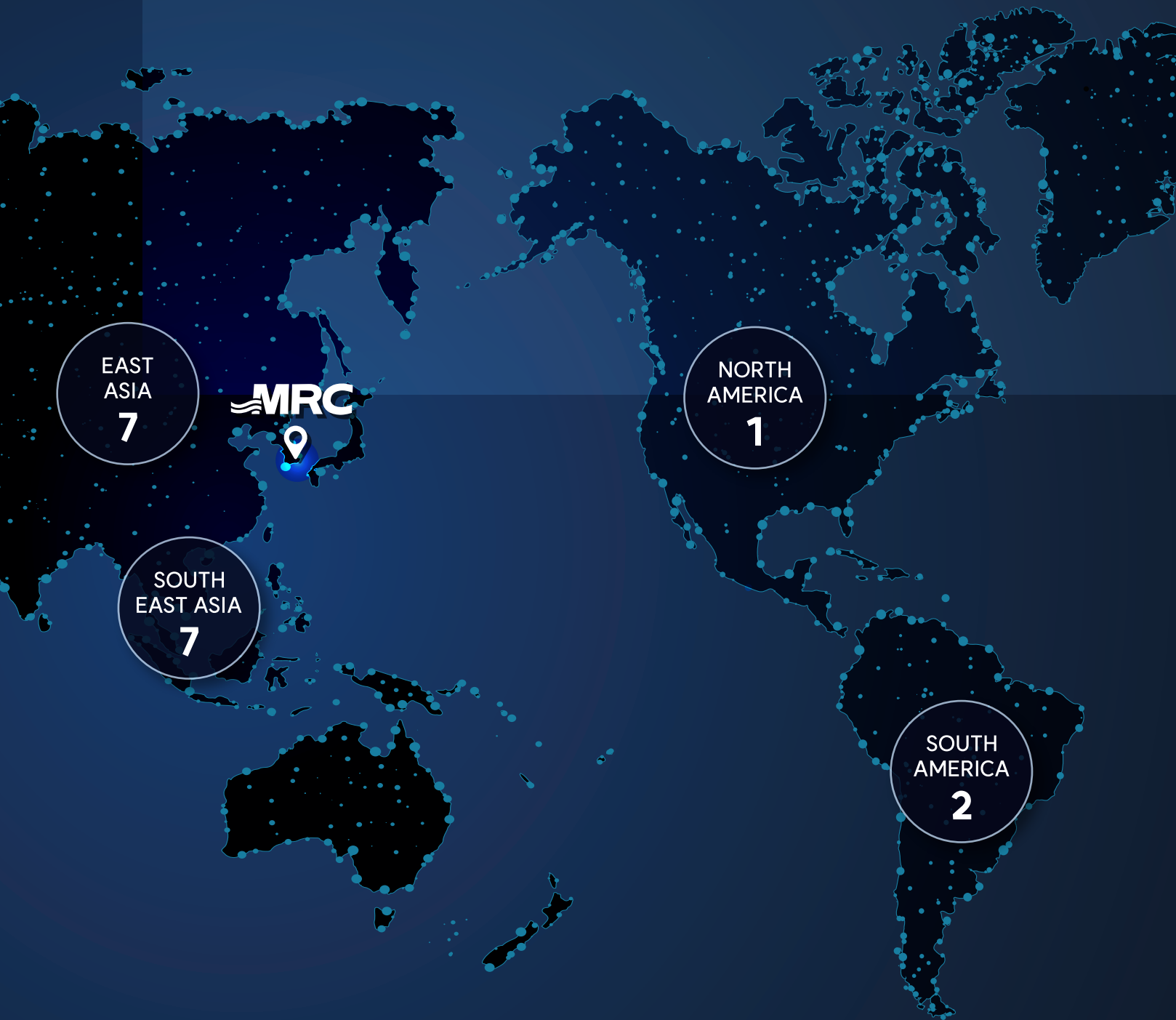
Integration is innovation, and we are moving forward to develop the next generation of navigation systems.



Reliable

MRC's products are proven in 11,000+ vessels operating around the world. All our products are certified to national and international standards.





Service Network

With 110 agents and an after-sales service network around the world, we aim for the ultimate customer satisfaction



Product Contents

MAIN PRODUCTS

- NAVIGATION
- SMART SHIP SOLUTIONS
- COMMUNICATION
- COMMISSIONING

Main Products

Navigation

Electronic Chart Display and Information System (ECDIS)

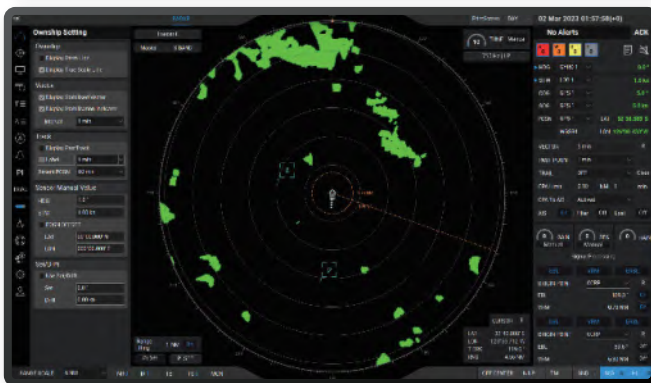
Track Control System (TCS) & Collision Avoidance System

Marine RADAR

Digital Instrument Panels

Integrated Navigational System & Ship Information Processing System

▪ ECDIS & TCS



▪ Marine RADAR

▪ Digital Instrument Panels



▪ Integrated Navigational System

▪ **Electronic Chart Display and Information System (ECDIS)**

The MNS-100E series ECDIS system offers powerful route planning and route monitoring capabilities as well as support for electronic navigation charts, acking capabilities.



▪ **Track Control System (TCS) & Collision Avoidance System**

The MRC Track Control System(TCS) automatically keeps the ship's route, avoids collision and other potential hazards, and returns the ship back on track.



▪ **Marine RADAR**

The MNS-100R series RADAR system offers powerful object detection and tracking capabilities.



X-Band Radar Antenna (6ft, 9ft)

S-Band Radar Antenna (12ft)



▪ **Certification**



Republic of Korea Government Certificate for ECDIS



DNV MED Certificates for ECDIS and Track Control System



DNV MED Certificates for RADAR

▪ Digital Instrument Panels

Replaces analogue overhead instrument panels



Customizable with additional display



Additional display expansion available



Automatic brightness following GPS time

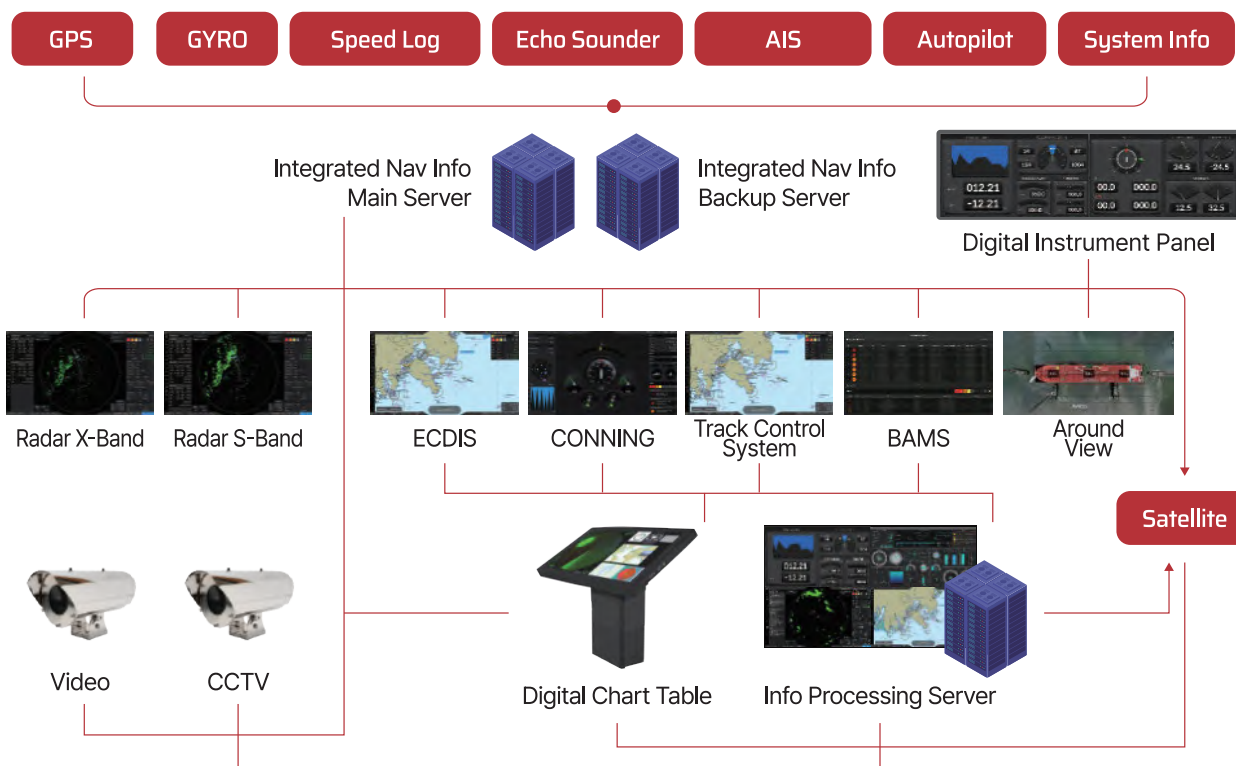


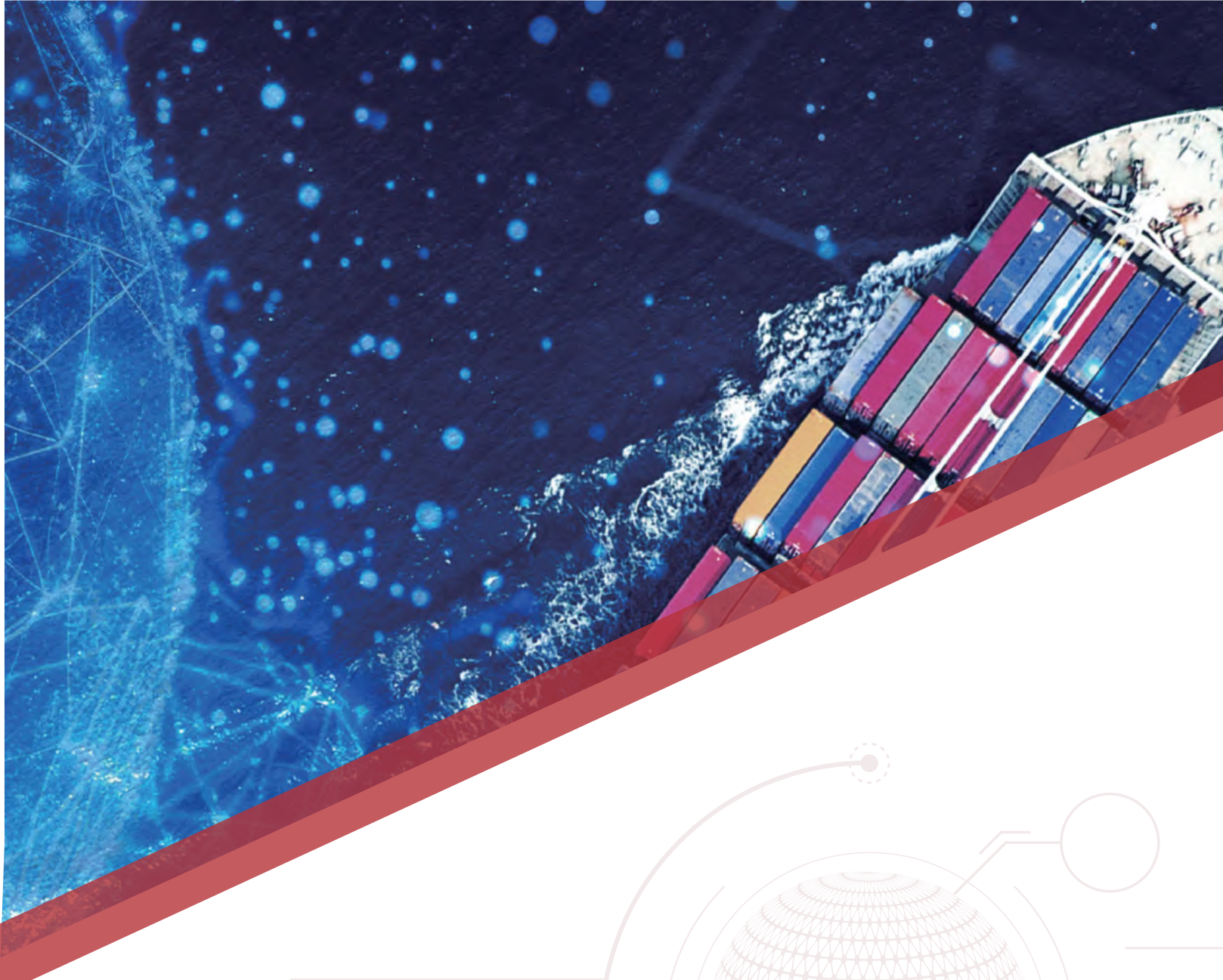
Intuitively user configurable:
The display can dynamically adapt to different situations and change the type of information by user



If one display malfunctions, the missing information is automatically displayed on other working display panels

▪ Integrated Navigational System & Ship Information Processing System





Main Products

Smart Ship Solutions

Main Services Provided

Digital Chart Table

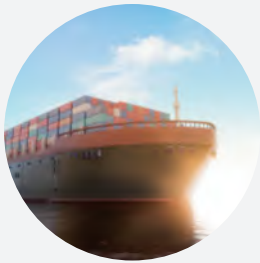
Engine Status Monitoring System

One-Man Bridge System

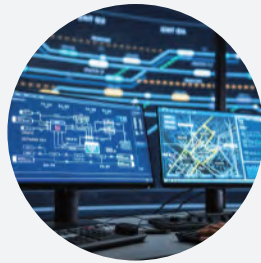
INS+Smart Ship Solutions

▪ Main Services Provided

MRC provides custom Smart Ship Solutions for each individual ship in the fleet. MRC integrated Smart Ship Solutions ensure an optimized voyage by providing a real-time, synchronized, and comprehensive navigational information.



Ship Information



Monitoring



Analysis



Table Care



AIS, Weather, Design, Service



Machinery, Alarm, Overhaul, LNG



Route Planning, Trim Optimization, Weather Effect, Hull Fouling, Emission Management



Fleet Management, Predictive Diagnosis and Maintenance, Life Cycle Assessment

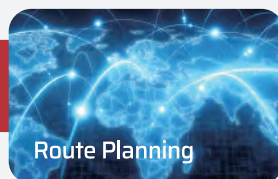
▪ Digital Chart Table

Real-Time Route, Navigational Information, and Hazardous Zone Display



Digital chart table based on 55-inch multi-touch display

Route Planning with Multi-Touch Input



Route Planning

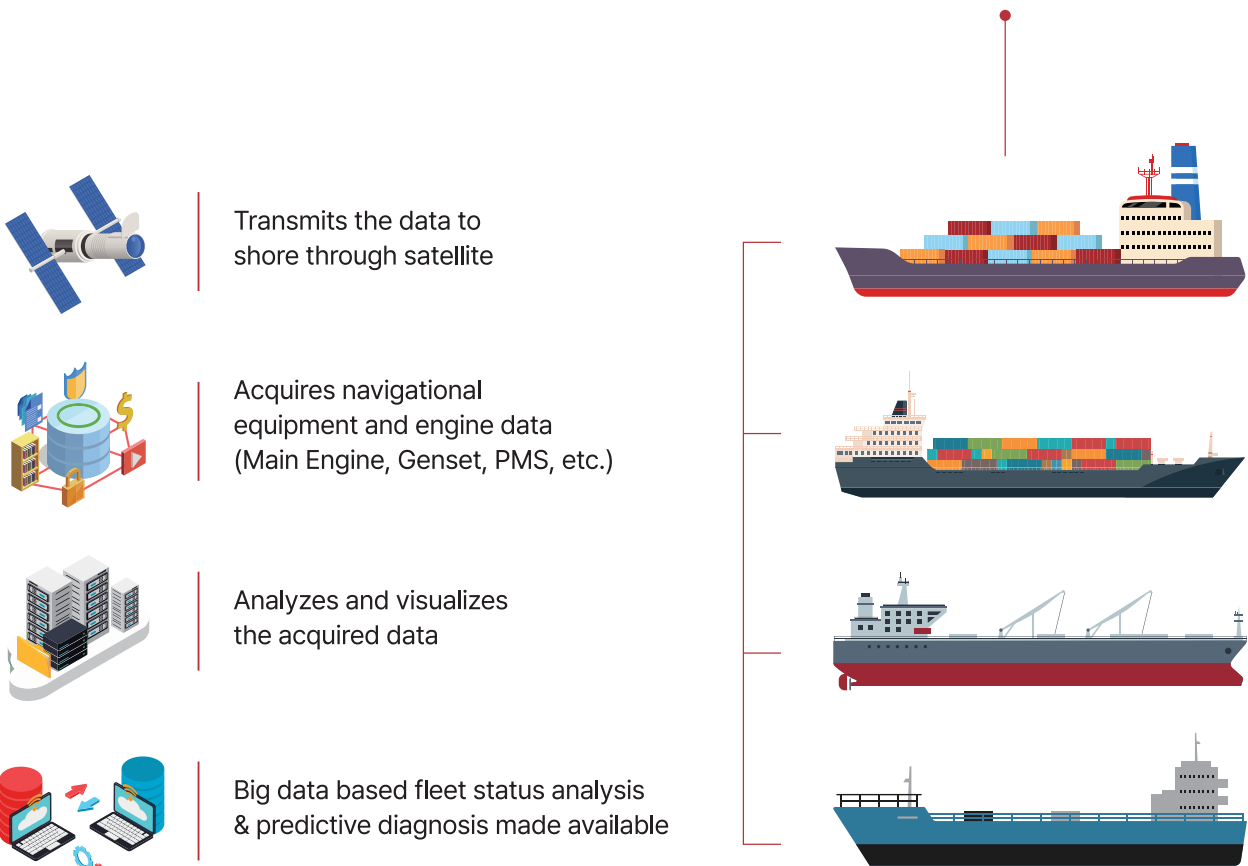
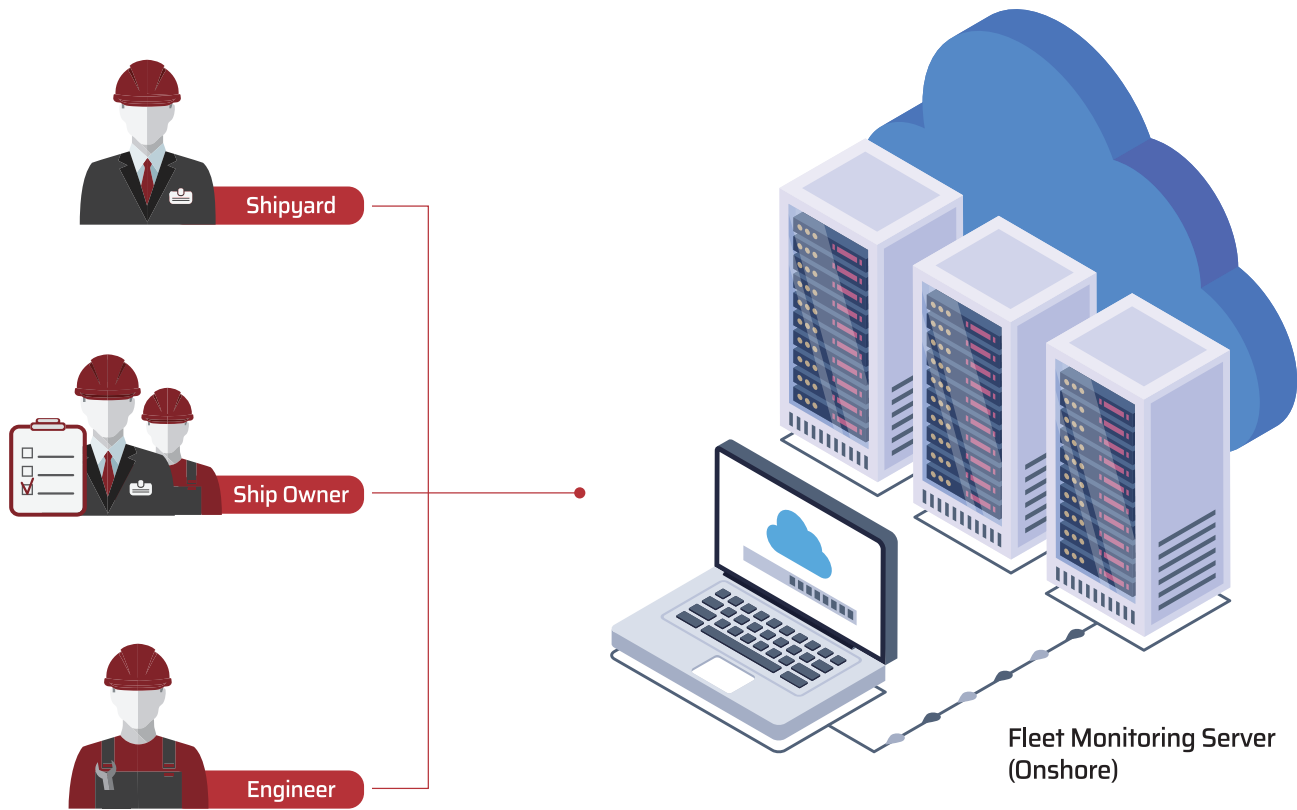


Route Monitoring



Route Plan Sharing

▪ Engine Status Monitoring System



■ One-Man Bridge System



One-Man Bridge System is a next generation bridge console system, which is a customisable combination of interconnected systems to centralise the access to the ECDIS, RADAR, conning, as well as other sensor information, and to centralise the command and control of the ship.

MRC aims to increase safety and efficiency for the management of ship.

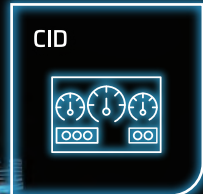
The One-Man Bridge System enables one operator on navigational watch to perform their duty without impairing proper lookout.

This has been taking its shape through rapid development of navigation and communication systems in relation with the bridge configuration, the bridge workstation, and the One-Man Bridge operation system.

INS + Smart Ship Solutions Package Productization

Smart Navigation Support Solutions

- Multi Source DAQ and Navigation Support
- Safe Navigation Tailored to Vessel Performance
- Autopilot Control and Collision Avoidance
- Onshore Monitoring and Remote Control



AI-Based Additional Services

- Camera, Lidar Integrated Recognition
- Marine Augmented Reality, HUD
- AI-Based Navigational Condition Recognition







Main Products

Communication



Communication Diagram

Public Address (PA) and General Alarm (GA) System

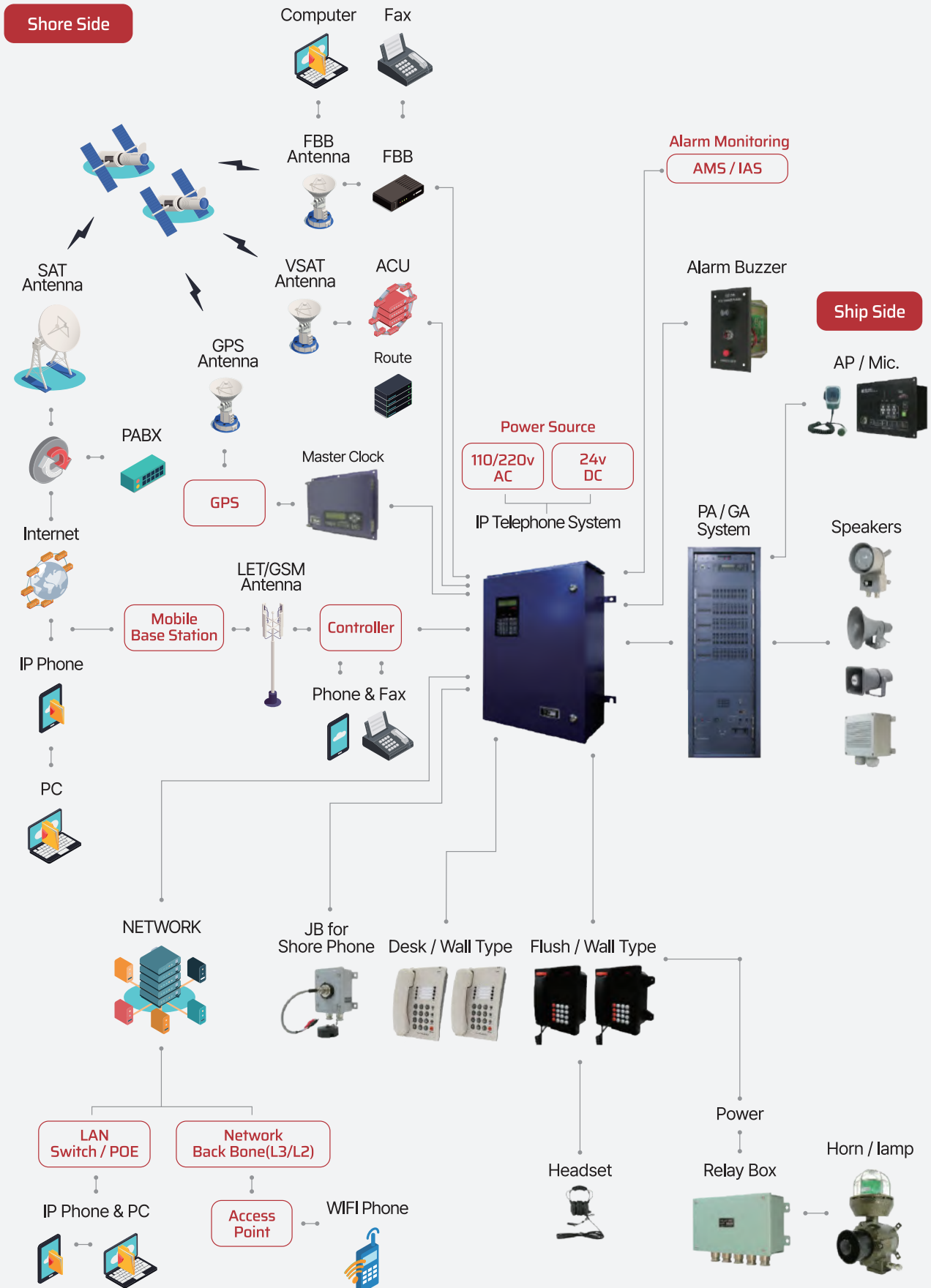
Auto Telephone Exchange System

Ship Network System

Common Battery Telephone and Sound Powered Telephone

CCTV System

Communication Diagram





- **Public Address (PA) and General Alarm (GA) system**



The Public Address (PA) and General Alarm (GA) system is a SOLAS compliant, essential system that ensures safety of life at sea.

Integrated with various other alarm systems, the MPA-9000 Series PA/GA is able to address emergency situations accurately and seamlessly.

The system conforms to the IEC 60945 standard.

- **Auto Telephone Exchange System**

The Auto Telephone system is an IP-based telephone switchboard which connects not only traditional marine telecommunication equipment, including Inmarsat-F or VSAT, but also internet protocols and network communications.

The system conforms to the IEC 60945 standard.



- **Common Battery Telephone and Sound Powered Telephone**

The Common Battery Telephone (CBT) and Sound Powered Telephone (SPT) are used to communicate with the wheel house, the engine control room, the steering gear room, and other necessary areas in case of emergency. Most importantly, being independent from the power supply of the vessel, this system allows for emergency communication at critical locations in the vessel in the event of a power failure.

These telephones conform to the IEC 60945 standard.

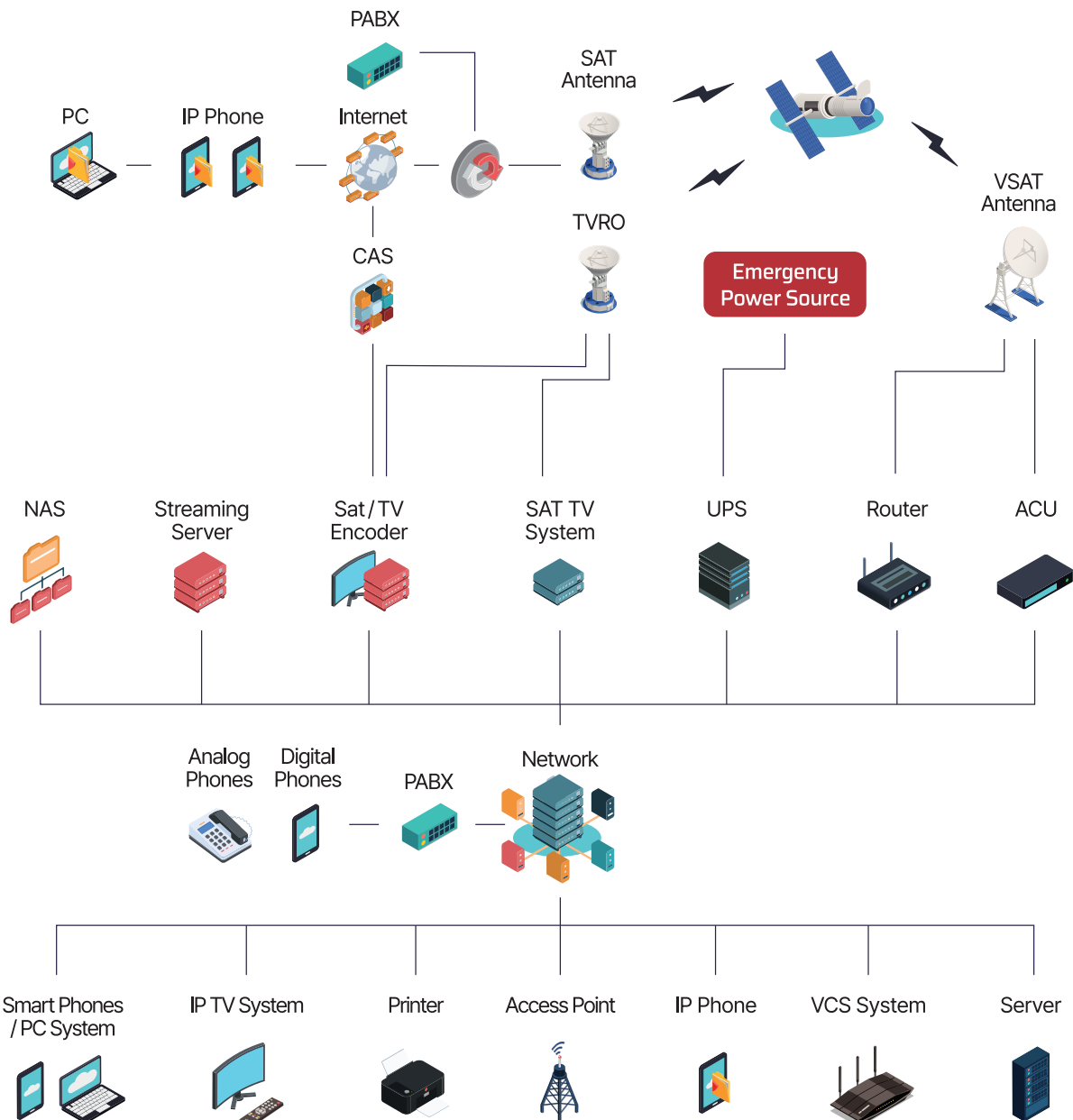


■ CCTV System

The CCTV system is a video surveillance system that monitors specific locations such as the engine room, steering gear room, and other areas that need real-time monitoring and risk management where the environment may be hazardous for human access while the ship is in motion.



■ Ship Network System



Commissioning

Vessel equipment commissioning is the process of installing, testing, and verifying the equipment and systems onboard to ensure that all the equipment is ready to operate on a voyage. Operating commissioning work since the late 1960s and early 1970s, MRC is Korea's most reliable authorized sales and service agent for JRC and YDK Technologies.

■ Commissioning Services



RADAR



ECDIS



RPS



CONNING



ECHO SOUNDER



SPEED LOG



GPS



AUTO PILOT



EM-LOG



GYRO COMPASS

■ Commissioning Services : GMDSS



MF/HF



SART



VHF



NAVTEX



INMARSAT-C



TWO-WAY VHF



EPIRB

Certifications



ISO 9001:2015 (DNV)



ISO 45001:2018 (DNV)



ECDIS : MED-100E (DNV)



TCS : MED-100ET (DNV)



RADAR : MED-100R (DNV)



PABX : MED-100 (DNV)



TALKBACK :
MTB-1200S (RMRS)



PA/GA : MPA-9000S (KR)



SRS :
MSR-9200A (RMRS)



PA/GA : MPA-9000S (RMRS)



CCTV :
MCT-SPZ-1WEX (ATEX)



CLOCK : MSC-980 (CCS)



TELEPHONE :
IBT-100 / IBT-200 (IECEx)