

Leading symbol of quality in Korean marine equipment



K O M E R I

K h a n

S e a N e t

M a r i n e
E l e c t r o n i c s

S A M Y U N G E N C

S A N E n g r

E & C O



Ministry of Oceans
and Fisheries



KIMST
Korea Institute of Marine Science &
Technology Promotion

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product range



KOMERI

Korea Marine Equipment
Research Institute

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General Facts

Established	December 18, 2001
Legal Grounds	Article 42 of the Industrial Technology Innovation Promotion Act (Research Institutes Specializing in Manufacturing Technology)
Purpose of Establishment	Contributing to the development of the shipbuilding and marine equipment industries through comprehensive technical support including technical development and testing and certification for the shipbuilding and marine equipment and related parts industries.

History

KOMERI is a specialized production technology research institute established under the Ministry of Trade, Industry and Energy in accordance with Article 42 of the Industrial Technology Innovation Promotion Act.

1994	2001	2004	2008	2009	2010	2011
Shipbuilding & Marine Equipment Research Center established (at Korea Maritime & Ocean Univ.)	Incorporation permit obtained from the Ministry of Trade, Industry and Energy	Construction of Noksan & Yeongdo Research Institute completed	Electronic Equipment Testing and Certification Center for Vessels opened	Jeonnam H/Q established	Gyeongnam H/Q established	Institute name changed to Korea Marine Equipment Research Institute & Joenbuk H/Q established
2021	2020	2019	2018	2016	2012	
Construction of Water Tank Test Building completed & Quality Advancement Center for Small and Medium-sized Ship Material and Equipment opened	The Acoustics Test Laboratory opened	Small Vessel Maritime Test Support Center opened, & Korea-Russia Marine Equipment Center opened	JangSooMyung Technical Support Center for Shipbuilding & Marine Equipment opened	Performance Enhancement Test Research Center opened, and Construction of KOMERI Ballast Water In-Land Testing Facility completed	Marine Plant Equipment Testing and Certification Center opened & Ulsan H/Q established	
2022	2023	2024	2025			
Yongsan H/Q and Jeju Center established	Establishment of Korea Organization for Innovative Eco-friendly Ship Technology Development	Construction of LNG FGSS & Bunkering Equipment Test Facility completed	Shipbuilding Industry Field Difficulties Desk Opened	Opening of the Floating Offshore wind industry TEchnology Centre (FOTEC)	Launching Ceremony for "KOMERI 1 - Multi Purpose Marine Substantiation Vessel"	Completion of the Eco-friendly Ship Alternative Fuel Demonstration Center

Vision

We lead future technology and grow with other companies with a professional and skilled leadership through the continuous competency development and internal and external mutual cooperation.

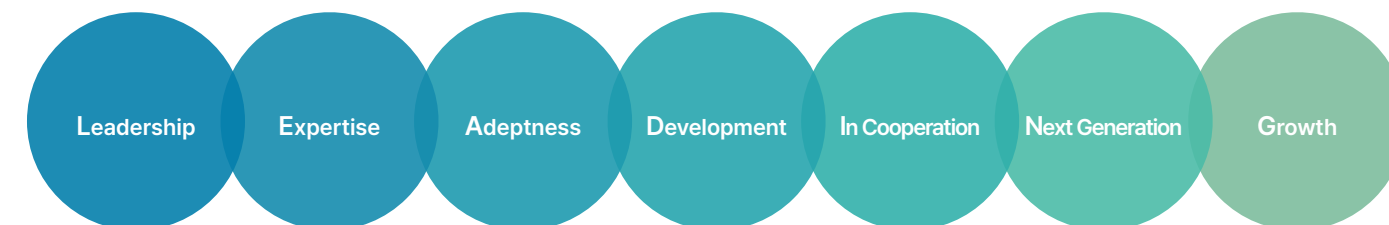
MISSION

Improvement of international competitiveness of the shipbuilding and marine equipment industry

VISION 2030

Global partner of eco-friendly shipbuilding and marine equipment

Core Value



Strategic Direction

- 1 Strengthening global business capabilities
- 2 Establishing sustainable management infrastructure
- 3 Leading core technology of eco-friendly smart vessels for the future
- 4 Establishing KOMERI Way
- 5 Diversifying business activities

Main Business



Test & Certification

Comprehensive test/certification infrastructure for shipbuilding and marine equipment



R & D

Development of shipbuilding & marine equipment technology and lead of R&D projects

- Aquatic organism / BWMS
- LNG / Hydrogen / Ammonia equipment
- Explosion-proof / High-voltage / Motors
- Material analysis / Tension / Compression, etc
- Environment / Reliability
- Electromagnetic compatibility / Electrical safety / Lighting
- Vibration / Sound / Shock
- Fire • Water quality

- National R&D projects
- Technical transfer and commercialization
- Computational simulation / Analysis
- Development of International standards and Korean Industrial standard
- International cooperative projects
- Marine fisheries equipment
- Engineering

Conformity System

Korea Laboratory Accreditation Scheme(KOLAS)

Advanced Performance
Technology Headquarters

Smart Equipment
Headquarters

Alternative Fuel
Headquarters

Eco-friendly Propulsion
Headquarters(ULSAN)

Small and Medium-sized
Future Ship Headquarters



K-SeaQ

Marine Equipment Brand

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T +82 (0)51-400-5000 **W** www.k-seaq.com

K-SeaQ, Leading the Future

K-SeaQ is a leading marine equipment brand established through shared standards and collaboration. With internationally competitive technology and creative thinking, it leads the future of the marine industry.

Building-Trust

Creating an environment for building long-term cooperation based on trust

Compatible-Norm

Strengthening standardization policies and technologies(localization) to enhance customer convenience and compatibility

Thinking-Creative

Innovation and insight to unlock possibilities from the past to the future



Brand Story

[K] represents Korea as a leading K-brand and serves as a global symbol of the quality and reliability of Korean marine equipment.

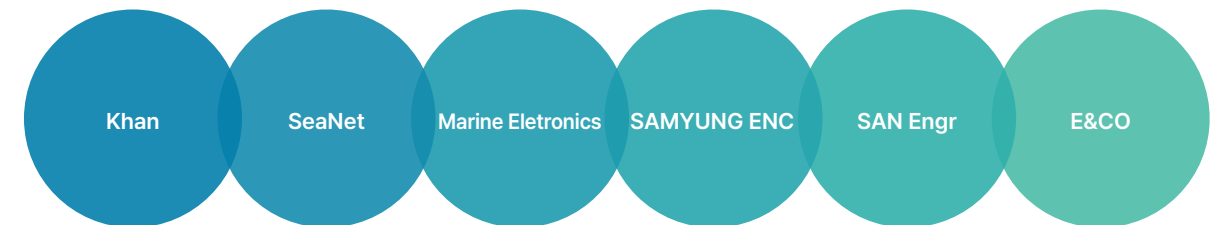
[SeaQ] stands for Sea Quality, meaning "A brand that guarantees the quality of marine equipment."

SEA signifies the ocean, highlighting the industry's specialization in marine equipment, while Q symbolizes Quality. K-SeaQ will set the standard for the quality of marine equipment in the Republic of Korea.

PARTICIPATING COMPANY

The national flagship brand for marine equipment

K-SeaQ participating companies are recognized for having the highest level of quality in the marine equipment industry. With technology and reliability worthy of a national flagship brand, they play a key role in supporting the front lines of Korea's marine industry.



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SeaNet

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Marine Electronics

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SAMYUNG ENC

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SAN Engr

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Khan

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Technical Nomad : Challenge to the limits.

The pioneer in energy industry providing customized one-stop solution.
 With our own technical skills, KHAN strives forward like Nomad.

MISSION

Providing Customized
One-Stop Solution

CORE VALUE

World-Class Energy
Solution Provider

VISION

- Challenge
- Mobility
- Endless development
- Obligation

KHAN's Value

KHAN provides client oriented solution packages throughout the lifecycle for all type of plant anywhere in the world.

KHAN's Contribution to the World

KHAN values energy resource development to ease the access of usage to all mankind, and by standing as a role model of the industry as a pioneer.

Vision [ALL ENERGY LEADS TO KHAN] World-class Energy Solution Provider.

- 1 The pursuit of 'One-stop Solution Provider' for A to Z of the full life cycle in the scope of services by needs of the industry.
- 2 For fulfillment of this pursuit, KHAN shall diverse the business portfolio by overseas & domestic, offshore & onshore, and Operation and Maintenance & EPC in ratio of 7:3 for sales figure.
- 3 KHAN affiliates shall pursue 'World-class Energy Solution Provider' as a representative of Korea.

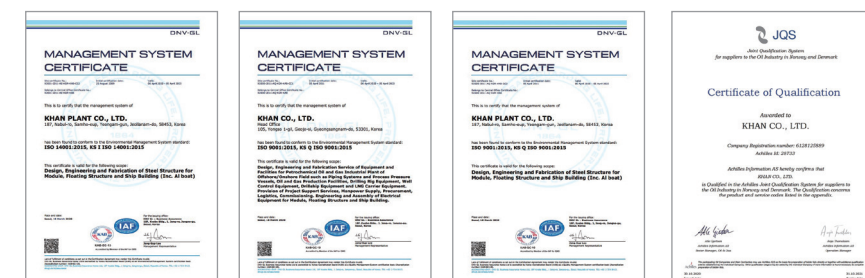
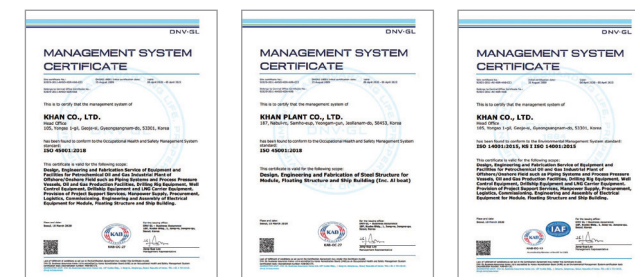
SERVICES

World-class Energy Solution Provider

History

- 2021**
 - BP Mad dog#2 CPI punch Carry Over Work
 - ENI CORAL FLNG Punch Clear Work
 - West Aquila, West Libra Preservation & Maintenance
 - Shipbuilding (2,800 DWT CPP Oil Tanker : H0002)
- 2022**
 - Petrobras P79 - Weidmuller TPA JB Supply
 - Eco-Friendly Decommissioning & Rig to Reef
 - Petrobras P-79 FPSO Living Quarter, Hull Pipe Racks & Helideck
 - Indonesia Attaka marine platform Eco-Friendly Decommissioning & Rig-to-Reefing
 - Claxton Engineering Services Pte. Ltd. (Singapore) mou conclusion
 - Acquired the Sung Chang E&C DAEBUL Factory
- 2023**
 - Wind Turbine Installation Vessel's Deckhouse
 - Establishment of KHAN Representative Office in Indonesia
 - PT Elnusa Tbk. (Indonesia) and MOU couclusion
- 2024**
 - Register KHAN PLANT registration in BSP (BSP)
 - KHAN PLANT Registration with Hyundai Rotem (Plant Business)
 - PRE-Ocean Star Selection - KHAN Co., Ltd

Certifications





SeaNet

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Brand Story

As a global marine equipment manufacturer, SeaNet sets a new standard for ship navigation equipment and solutions, and in 2008 it was a multi-year experience in ship navigation, telecommunications, and satellite Founded with experience and expertise, it has established itself as a global leader in smart delivery solutions, cybersecurity, navigation communication, and satellite technology.

ECO-Friendly Smartship Brand

System Integration

Delivering integrated telecom solutions.

Engineering

Focused engineering support, enhancing quality competitiveness and technological advancement.

Expertise & Development

Marine-experienced R&D team
Global standards compliance
In-house future-ready solution.

Smart Ship Solution

SeaNet provides integrated solutions for all maritime communications.

Brand History

2008

Tier 1 Supplier for Samsung Heavy Industries
Established SeaNet Inc

2014

Top of \$5M Export Award
IRS Taxpayer Commendation
ISO14001 Certificate(KR) Acquisition

2014

Top Diversified Shipbuilding Supplie
Developed Smart Ship 'SEES' Solution

2021

Smart Ship Service Center MoU
Monitoring System completion
MED Certificate (module B, module D) (BV) Acquisition

2023

Designated as a Busan Excellent Entrepreneur
Developed 'eSEES': Satellite-Based Smart Ship
Launched Cybersecurity Brand 'SEACURE

2024

Launched 'SEATALK': Marine Comm. Solution
Diversified into Marine, Offshore, Special & CS Sectors



PRODUCTS

Navigation, Communication, Software & Network, Other Products

Gyrocompatus with Photon-IRO

Inertial Reference Device (SGY-IRU1000)



Inertial unit with fiber optic gyroscope and accelerometer for precise 3D motion calculation.

Enhanced accuracy and stability with high-performance fiber optic technology.

Control Display (SGY-CDU1000 / 1001)



Control Display Unit

Displays heading, attitude, position, and status interfaces with IRU for setup and control.

Available in two models

SGY-CDU1000 (High Spec) and SGY-CDU1001 (Low Spec).

Data Distribution Device (SGY-DDU1000B / 1000 / 1001)



- Data distribution unit enables gyrocompass data transmission to various platforms.
- Offers 32-channel output for superior scalability over competitors.

Domestic and Foreign Certification Status

- MED Module B/D Completed
- Korean Government Formal Approval (KG) Completed
- New Technology Certification (NET) Completed



Marine Electronics

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Brand Story

Marine Electronics Co., Ltd., founded on May 8, 1985, has led the development of a wide range of maritime navigation systems and has provided training simulators to the Republic of Korea Navy, Korea Coast Guard, and numerous maritime education institutions. The company independently developed the mandatory ship navigation system ECDIS (Electronic Chart Display and Information System).

Maritime Talent Dev

- Free ECDIS and Simulator Services to Marine Agencies
- Training center ECDIS donation

R&D Performance

- Domestic ECDIS Development
- Ship energy-saving in development

Core Technology

- Radar signal processing & tracking
- Real-time ECDIS & coastal display
- Real-time 3D terrain display

Ethical Management

- Ethics & Conduct Enforcement
- UNICEF & KRC donations

Navigation

ECDIS

(Electronic Chart Display and Information System)

Korea's first verified domestic ECDIS, certified by KR for cybersecurity, Autopilot, and TCS, optimizing operational costs through continuous customer-driven innovation.

WECDIS

(Warship Electronic Chart Display and Information System)

Korea's first verified WECDIS, optimized for naval operations by reflecting ROK Navy concepts and characteristics.

Chart Master

Developed in-house, this digital chart table features a durable, large touch display with paper chart storage, replacing traditional analog tables. Its modular design allows for diverse environmental and spatial applications.

Radar

Customized radar system reflecting customer needs from over 1,000 supplied ECDIS units, featuring standardized radar functions magnetron or SSPA antennas, and transceivers for enhanced navigation safety.

PRODUCTS

Used for steering control essential for navigation as part of the steering system

Autopilot

- This technology and product comply with the performance standards of ISO 11674 and IEC 62065, as mandated by the EU Marine Equipment Directive (MED), and provide precise steering control to maintain a vessel's heading or follow a predefined route.
- As the first domestically developed solution in Korea to achieve MED certification, it represents a major milestone and establishes a clear competitive edge.
- By reducing reliance on foreign technologies—which currently account for 97% of Korea's ship navigation and communication equipment market—it helps shield the domestic shipbuilding industry from potential vulnerabilities such as export restrictions and supply chain disruptions.
- The successful localization of autopilot technology, a critical system across various vessel types, strengthens Korea's maritime capabilities, closes the technological gap with leading maritime nations, and enables faster, more efficient production and maintenance within the country.

Autopilot System (Autopilot 5000)



Steering Mode

Track Control	Steering along user-set routes
Heading Control	Maintain user-set player defense
Follow Up	Maintain the steering angle set by the user
Non Follow Up	Turn left/right of the user's own stroke

Key Performance

Adaptive Control	Sea-state adaptive control
Steering deviation under 1° (Sea State 4)	
Complies with international performance standards (ISO 11674, IEC 62065)	

Domestic and Foreign Certification Status

- HCS – MED B ("To be completed in May, 2025.")
- TCS – MED B ("To be completed in December, 2025.")

Application Areas

This technology can be installed and applied across a wide range of vessel types, including commercial ships, naval vessels, and government-operated ships. Looking ahead, it holds potential for further development to interface with various unmanned maritime systems, enabling integrated steering and control across both manned and unmanned platforms.



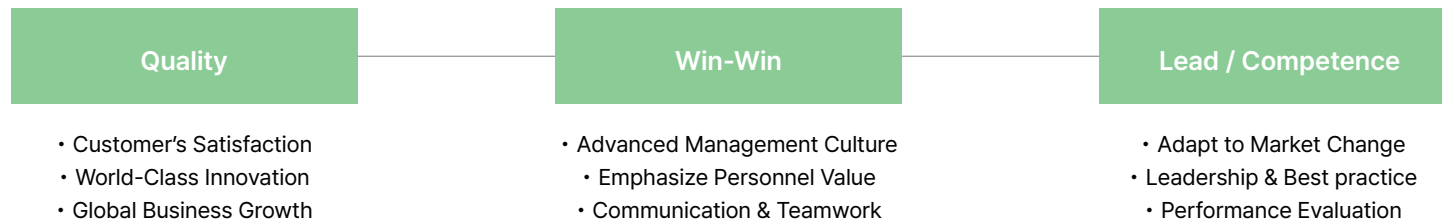
SAMYUNG ENC

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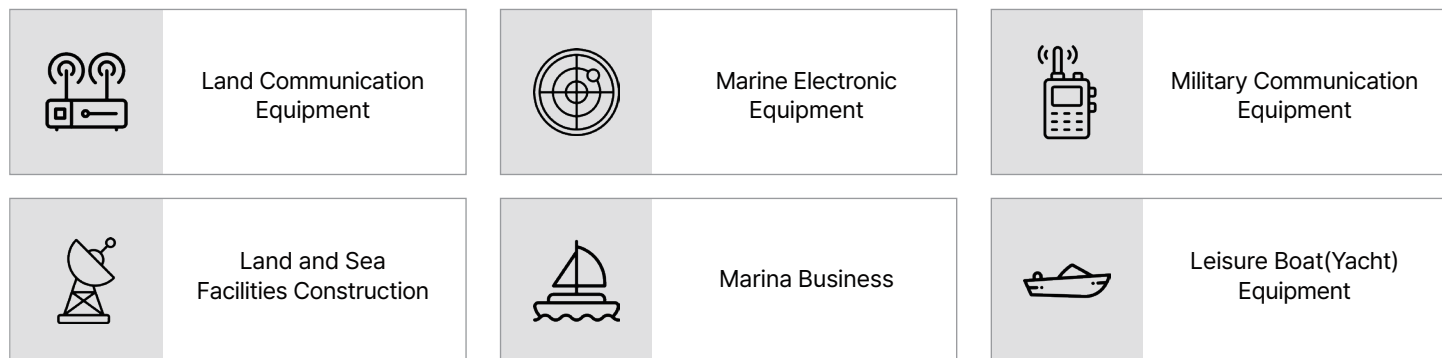
Representative Korean company for maritime communication equipment

Since its establishment in 1978, SAMYUNG ENC has grown to be a representative marine equipment provider and working on localization of marine electronic communication equipment. Based on its technology development, craftsmanship and reliability, SAMYUNG ENC is focusing on the advancement of its technology in domestic electronic industry with government support and Industry Academy Research Cooperation programs.

SAMYUNG ENC Philosophy



Business Parts





PRODUCTS

Marine Electronics, Communication Systems, Military Comms Equipment



Broadband Fish Finder (SFC-1000 / SFC-1100)

This product is a broadband frequency fish finder named SFC-1000 (SAMYUNG ENC Fish Finder using Chirp Frequency). It belongs to the sonar module family and offers improved imaging compared to conventional fish finders. Besides the standard B75M transceiver, four additional transceiver types are available for selection.

SFC-1000 Fish Finder		SFC-1100 Fish Finder	
			
Channels	1[CH]	Channels	2[CH]
Power Output	600[W]	Power Output	600[W], 1[KW]
Transceiver	Low, Middle, High Frequency	Transceiver	Low, Middle, High Frequency
Certification Status		• Third-party certified testing completed: Nov 2023 • KC Certification completed: Nov 2024	

4kW Digital Radar (RSU-400)

This product is a 4kW digital radar including transmitter and receiver units. It emits microwave pulses according to radar scale, receives signals reflected from targets, and converts them into video signals displayed on the indicator by switching receiver bandwidth.

4kW Digital Radar (RSU-400)			
			
Antenna Output	4 kW	Transmission Frequency	9.41 GHz ± 30 MHz
Simultaneous Target Tracking	20 targets	Range Accuracy	Within 60 m
Bearing Accuracy	Within ±1°	Range Resolution	Within 30 m
Bearing Resolution	Within 4.1°		
Certification Status		• Third-party certified testing completed: Nov 2023 • KC Certification completed: Oct 2025	



SAN ENGR

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Growth

To strengthen continual effort to maintain leader position

Customer Satisfaction

- Quality
- Safety
- Values
- Cost

Product

- Innovation
- Technology
- Teamwork
- Commitment

R & D

- Prime
- Premium
- Pride

Creative and Innovative Ideas

The creative and innovative ideas of our developers and engineers will materialize the imaginations of the customers. Our engineers are always ready to accept your needs and demands. Our staff makes endless efforts to bestow value to our customers as well as in producing products. For this, our Research & Development team works night and day. In order to provide optimum solutions for new changes and opportunities, we have continually challenged ourselves day by day to apply the very latest technologies in our products.

Simple is The Ultimate Sophistication

Based on simplicity, we offer various solutions of automation technology. A design which is simple as well as ergonomic enables the user to manage the system comfortably; well-classified operating programs allow operators to realize important information undoubtedly easily. In addition, consistent architecture allows for easy installation, maintenance, and repairs, which gives flexibility and functionality for wide ranges of application. Reliability and flexibility are inseparable. For your needs, we provide flexibility based on reliability. Simple integration is possible through such standardized modules. Our countless efforts to reach corresponding portrayal will provide completely guaranteed quality.

PRODUCTS

Integrated Display System for Ship Navigation and Control

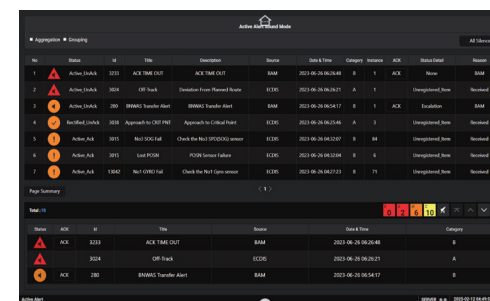
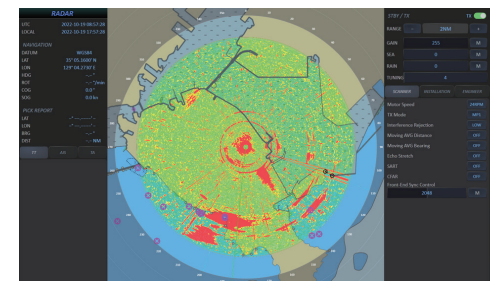
Multi-Function Display (NAVIK-MFD-1000)

Next-generation integrated display system for ship navigation and control, offering marine information and sensor data on one platform.

Specification	
Display	15.6 inch Touch Screen
OS	Window10
CPU	Intel Core i5
Storage	128GB SSD
RAM	8GB
Dimension	44.5 × 24.3 × 7.8 (cm)
Weight	5.86 kg



Key Features



Integrated Application Configuration

ECS	Displays certified electronic charts to enhance navigation safety, with integration of fish finder and display systems.
AR Display	Visualizes seabed reflection data in color through signal processing and communication. Recognizes ships, buoys, fish farm buoys, lighthouses, and wind turbines. Displays AIS information for selected vessels.
Digital Radar Display	Provides real-time visualization of surrounding objects and sea conditions detected by radar to support safe navigation.
BAM	Manages, processes, and displays onboard alerts in compliance with IEC 62923-1/2 requirements.
CID	Displays real-time navigation data from sensors such as GPS, 9-axis sensors, flow meters, and RPM.

Screen Split Function

Users can select single, dual, or quad screen layouts to run and monitor multiple applications simultaneously.

Real-Time Data Transmission

Sensor data collected onboard is transmitted in real time to the onshore control center via LTE router, enabling remote monitoring.

Product Point

7-in-1
Navigation Software

15.6-inch Display for
Small & Mid-Sized Vessels

Split-Screen Display

Onshore Control
Connectivity



E&CO

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Mission

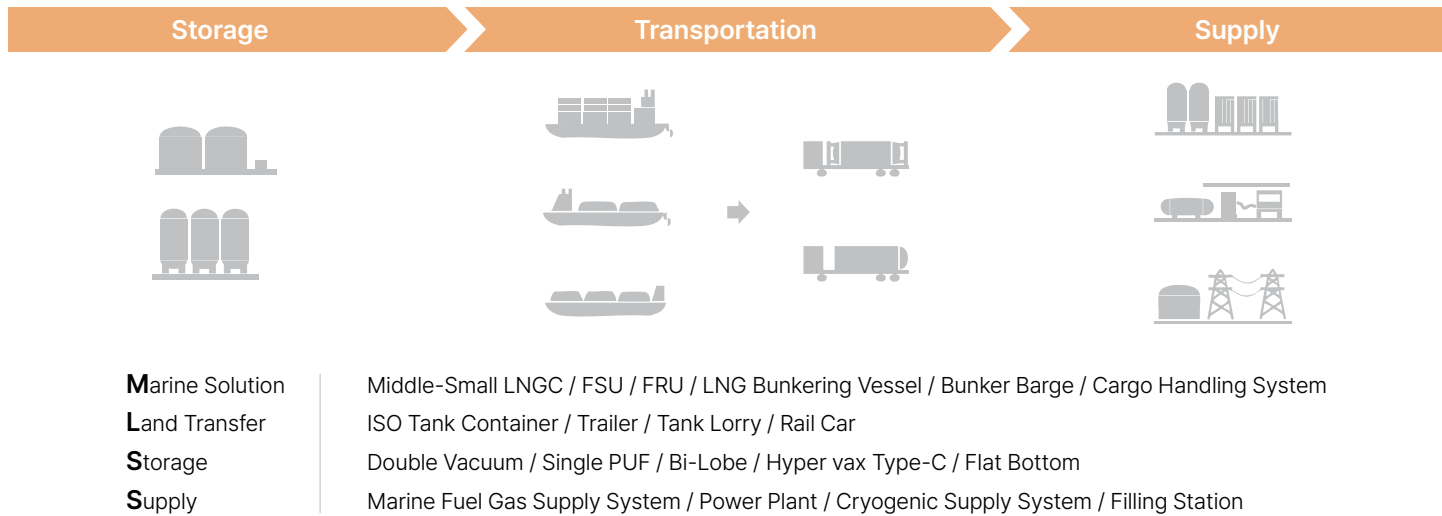
E&CO highly values our customer's needs for safe, reliable, efficient designs through cost effective engineering, procurement and construction services in an efficient and competitiveness way. Our Principals have built their careers understanding this truth and developed confidence and trusted, long-lasting relationships within the industry by conducting our business with integrity, honesty, and hard work.

Vision

To build trusted relationships and serve our customer's through integrity, honesty, hard work and accountability in a cooperation, E&CO focused on providing the right and best solution instead of the easy solution, in the most efficient and competitiveness way possible. Based on pursuing top technology and service, E&CO will take first priority for customer's satisfaction and expanding our operations in worldwide.

Business Area

We offer comprehensive solutions for eco-friendly gas fuels such as LNG, LPG, hydrogen, and ammonia—covering the entire value chain from storage and transportation to end-user supply. Our portfolio includes cryogenic tanks, ISO containers, bunkering vessels, and fuel gas supply systems tailored for both marine and land applications. With scalable and safe technologies, we support the global transition to cleaner energy.



PRODUCTS

Cryogenic LNG ISO Tank & Multi-Lashing System

ISO Tank Container



Gross Volume	42.597m3
Length	12,129mm
Height	2,591mm
Max. Gross Weight	30,480kg

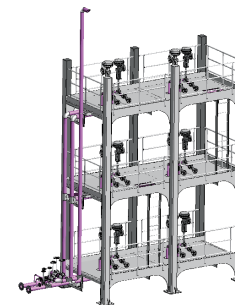
ISO Tank Container

The ISO Tank Container is an internationally standardized tank designed for cross-border transport and loading of cryogenic liquefied gases, including LNG, via rail, ship, or truck. It ensures safe transportation under extreme low temperatures and is optimized for global liquid cargo logistics systems.

• Key Features

Double-layer design	A high-vacuum insulation layer between the inner vessel and outer shell minimizes external heat inflow to prevent gas loss.
Cryogenic fluid preservation	Enables long-term storage of cryogenic liquefied gases such as LNG, LN ₂ , and LHe.
International certification	Complies with global transport regulations including IMDG, ADR/RID, and CSC.
Transport compatibility	Versatile compatibility for loading on rail, ship, and trailer transport modes.
Safety design	Equipped with safety valves and emergency shut-off valves to ensure operational safety.

Lashing Bridge



Length	5,276mm
Height	9,120mm
1-3 Level Multi-Stack Configuration	

Lashing Bridge

The existing lashing bridge, originally installed to support containers, is enhanced with charging control and flow monitoring systems, transforming it from a simple support structure into a multifunctional unit that maximizes liquefied gas transport and filling efficiency. Designed to enable simultaneous multi-charging of ISO Tank Containers stacked above, this product significantly improves terminal operational productivity and flexibility.

• Key Features

Integrated support & charging structure	Combines charging system with the existing lashing bridge to improve space utilization and equipment efficiency.
Multi-stage piping diameter system	Applies different pipe diameters (1st, 2nd, 3rd stage) to minimize flow loss and reduce charging time based on charging position.
Charging flow monitoring system	Equipped with real-time flow measurement and control for a stable charging process.

Certifications



| Product Lineup

Merchant vessel product range

★ Product developed under the K-seaQ Brand

Navigation System		
1	ECDIS	SAMYUNG ENC, SAN Engr
2	CID	SAN Engr
3	BAMS	
4	RADAR (KC, X-band)	SeaNet, SAMYUNG ENC
5	BRIDGE NAVIGATIONAL WATCH ALARM SYSTEM	SAMYUNG ENC, SAN Engr
6	AUTO PILOT SYSTEM ★	MECys
7	GYRO COMPASS ★	SeaNet
8	MAGNETIC COMPASS	
9	ECHO SOUNDER	SAMYUNG ENC
10	NAVTEX RECEIVER	
11	WEATHER FACSIMILE	SeaNet
12	VOYAGE DATA RECORDER	
13	ELECTRICAL INCLINOMETER	
14	AUTOMATIC IDENTIFICATION SYSTEM	SAN Engr

Communication System

1	MF/HF RADIO EQUIPMENT	SAMYUNG ENC
2	INMARSAT-C(GMDSS)	
3	PORTABLE VHF TRANSCEIVER	
4	EPIRB	
5	AIS TRANSPONDER	
6	VHF RADIO TELEPHONE	

ETC

1	EMS, PMS, AMS, ICMS etc	SAN Engr
2	CCTV	SeaNet

| Product Lineup

Fishing vessel product range

★ Product developed under the K-seaQ Brand

Navigation System		
1	PLOTTER + Fish Finder	SAMYUNG ENC
2	RADAR ★	
3	MFD(Multi-function Display)★	SAN Engr
4	E-NAVIGATION	SAMYUNG ENC, SAN Engr
5	BRIDGE NAVIGATIONAL WATCH ALARM SYSTEM	SAMYUNG ENC
6	AUTOPILOT	
7	MAGNETIC COMPASS	
8	Fish Finder ★	
9	AUTOMATIC IDENTIFICATION SYSTEM(CLASS A)	
	AUTOMATIC IDENTIFICATION SYSTEM(CLASS B)	
	AIS Receiver	
10	V-PASS	
11	ECHO SOUNDER	
12	S-AMS (Simplified-Alarm Monitoring System)	SAN Engr

Communication System		
1	SSB Marine radio	SAMYUNG ENC
2	VHF Marine radio(DSC)	
3	MF/HF Wireless Transceiver(GMDSS)	
4	VHF Wireless Transceiver(GMDSS)	
5	SART	
6	EPIRB	SAN Engr
7	IEC 61162-450 Gateway	



www.k-seaq.com