



www.daeyang.co.kr

Daeyang Electric

HEAD OFFICE / LIGHTING DIVISION

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Fax +82-51-200-5210, 5310

Central R&BD Centre

36, Magokjungang-ro, Gangseo-gu,
Seoul, Korea
Tel +82-2-3458-7602
Fax +82-2-3458-7609

R&D CENTER

45-10, Noksansandan 261-ro 14beon-gil,
Gangseo-gu, Busan, Korea
Tel +82-51-200-5462, 5485
Fax +82-51-200-5499

SI DIVISION

45-16, Noksansandan 261-ro 14beon-gil,
Gangseo-gu, Busan, Korea
Tel +82-51-200-5401~5408
Fax +82-51-204-1991

SENSOR DIVISION

16, Venture-ro 100beon-gil,
Yeonsu-gu, Incheon, Korea
Tel +82-32-830-5515
Fax +82-32-830-5509

Affiliated Companies

DAEYANG INSTRUMENT Co.,LTD

45-10, Noksansandan 261-ro 14beon-gil,
Gangseo-gu, Busan, Korea
Tel +82-51-200-9720, 9721, 9722
Fax +82-51-200-9719

DAEYANG ELECTRIC SUPPLY Co.,LTD

233, Dusong-ro, Saha-gu, Busan, Korea
Tel +82-51-414-9937
Fax +82-51-414-9940

HISTORY OF DAEYANG

History of Daeyang

Organization

Financial Status

Certification

Major Product

Lighting Product

Communication & Navigation system

Switchboard & Console

Rolling Stock Equipment

UUV

MDV

Sensor

Performance Track Records

Worldwide Service Network

Worldwide Sales Network

1977	05	DAEYANG Electric Co., Ltd. founded.
1977	12	Designated as manufacturer of marine electric equipment by Ministry of Commerce and Industry.
1984	04	Moved main office & factory to current location. (Shinpyong, Busan)
1985	09	Selected as an "Excellent Exporting Company" by the Korea Development Bank.
1988	03	Established an affiliated company, DAEYANG Instrument Co.,Ltd.
1988	12	DAEYANG R&D center founded.
1989	01	Established an affiliated company, DAEYANG Electric Supply Co., Ltd.
1990	11	Selected as a defense industry company by the Ministry of National Defense
1992	03	Signed a technical license agreement with WITT & SOHN, Germany
1994	03	Certified by BASEEFA for explosion proof lighting equipment
1995	08	Nominated as one of the most prominent medium-sized enterprises with advanced technologies by ministry of commerce and industry
1996	12	Certified by LRQA for ISO 9001- DAEYANG Electric Co., Ltd.
2000	07	Selected by "Small & Medium Business Administration" for "Venture Company"
2001	11	Awarded the "Bronze Tower Order" for contribution to industry by Ministry of Commerce, Industry and Energy Awarded the "Export Tower" by Ministry Awarded the "Leading Company" by Ministry of commerce, Industry and Energy
2002	11	Certified by LRQA for ISO 9001-2000 DAEYANG Electric Co., Ltd. & DAEYANG Instrument co., Ltd.
2003	02	Selected as a "National Manufacture Research Center" by Korean Ministry of Commerce, Industry and Energy.
2003	09	Completed the development of Goniometer
2004	06	Certified by BASEEFA 2001 ATEX for explosion proof lighting equipment.
2004	09	Completed the development WICS (Wireless Interior Communication System)
2005	05	Expanded & moved Noksan factory for Fan & Ventilation Division

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2006	06	Certified as "INNO-BIZ" company by Small and Medium Business Administration (SMBA)
2006	11	Co-developed with KORDI an Unmanned Underwater Vehicle(UUV) for deep sea exploration at 6,000m depth in the ocean successfully
2007	01	Established design research center for interior lighting equipment of cruise in Seoul
2007	02	Completed the development of LED flat lighting equipment
2007	05	Certified by IECEX for explosion proof lighting equipment
2007	07	Certified by LCIE with ATEX ex for explosion proof lighting equipment
2008	07	Completed the development of new explosion proof lighting equipment for onshore
2008	11	Certified by LRQA for ISO 14001-DAEYANG Electric Co., Ltd.
2008	12	Developed new Tactical Integrated Communication System(ADICS-21)
2010	09	Designated as "Defence Industry Equipment" on the ADICS-21 by goverment
2010	11	Award '30 Million US Dollar Export Award' at 47th Export Day.
2010	12	Certified by LRQA for OHSAS 18001
2011	01	KHNP(KOREA HYDRO & NUCLEAR POWER CO.,LTD) Approved Vendor
2011	07	Flotation on the stock exchange (Listed on KOSDAQ)
2011	11	Certified by KEPIC(Korea Electric Power Industry Code)
2012	01	Acquired "KSB"(Korea Special Battery)
2012	07	Completed developement of MDV(Mine Disposal Vehicle) for Korea Navy
2012	11	Expanded & moved R&D Center and Electric & Electronic factory to Noksan factory
2013	03	Awarded "Industrial Service Medal" on the 47th taxpayer's day
2013	04	Expanded & moved DAEYANG Instrument Co.,Ltd to Noksan factory
2013	08	Certified by IECEX Service Facility(KGS)
2013	11	Certified by The Data quality management system(Defense Agency for Technology and Quality)
2014	06	KHNP(KOREA HYDRO & NUCLEAR POWER CO.,LTD) Approved Vendor (E272A) (Renewal Registration of Duration)

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2014	09	Certified by KOLAS for International laboratory accreditation corporation.
2014	10	Awarded "Industry development of LED & International competitiveness improvement by minister of ministry of Trade , Industry and Energy"
2015	05	Certified by KEPIC(Korea Electric Power Industry Code) (E208) (J210) (Renewal Registration of Duration)
2015	07	Selected as a World Class 300
2015	08	KHNP(KOREA HYDRO & NUCLEAR POWER CO.,LTD) Approved Vendor (E208) (J210)
2015	12	Award '50 Million US Dollar Export Award' at 52th Export Day.
2016	03	Awarded 'Exemplary Taxpayer' of Busan Metropolitan City
2016	03	Expanded Sensor Division
2016	12	Expanded SI Division
2017	11	Awarded "Korea Technology Award" by ministry of Trade, Industry and Energy
2018	12	Awarded "Mecenat Award" by Busan Metropolitan City office of Education
2019	05	NET(New Excellent Technology) certified by Korean government
2019	11	Awarded "Korean World-class Product Award 2019" for Helideck Lighting
2019	12	Awarded "Hidden Champion 100 in Materials·Components·Equipment"
		Awarded "The Best Employer Prize" by Busan Metropolitan City
2020	11	Awarded "Prime Minister's Award for Excellent company in new technology development" for Helideck Lighting
2021	07	Awarded "Silver medal" by EcoVadis Sustainability Rating
2021	09	Awarded 'First grade' in ESG Assessment
2022	02	CRC(Central R&BD Centre) Completion
2022	03	Awarded "President's Citation" at the 56th taxpayer's day
2022	06	Awarded "Gold medal" by EcoVadis Sustainability Rating

ORGANIZATION

Number of employees 355 (2022)

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UUV

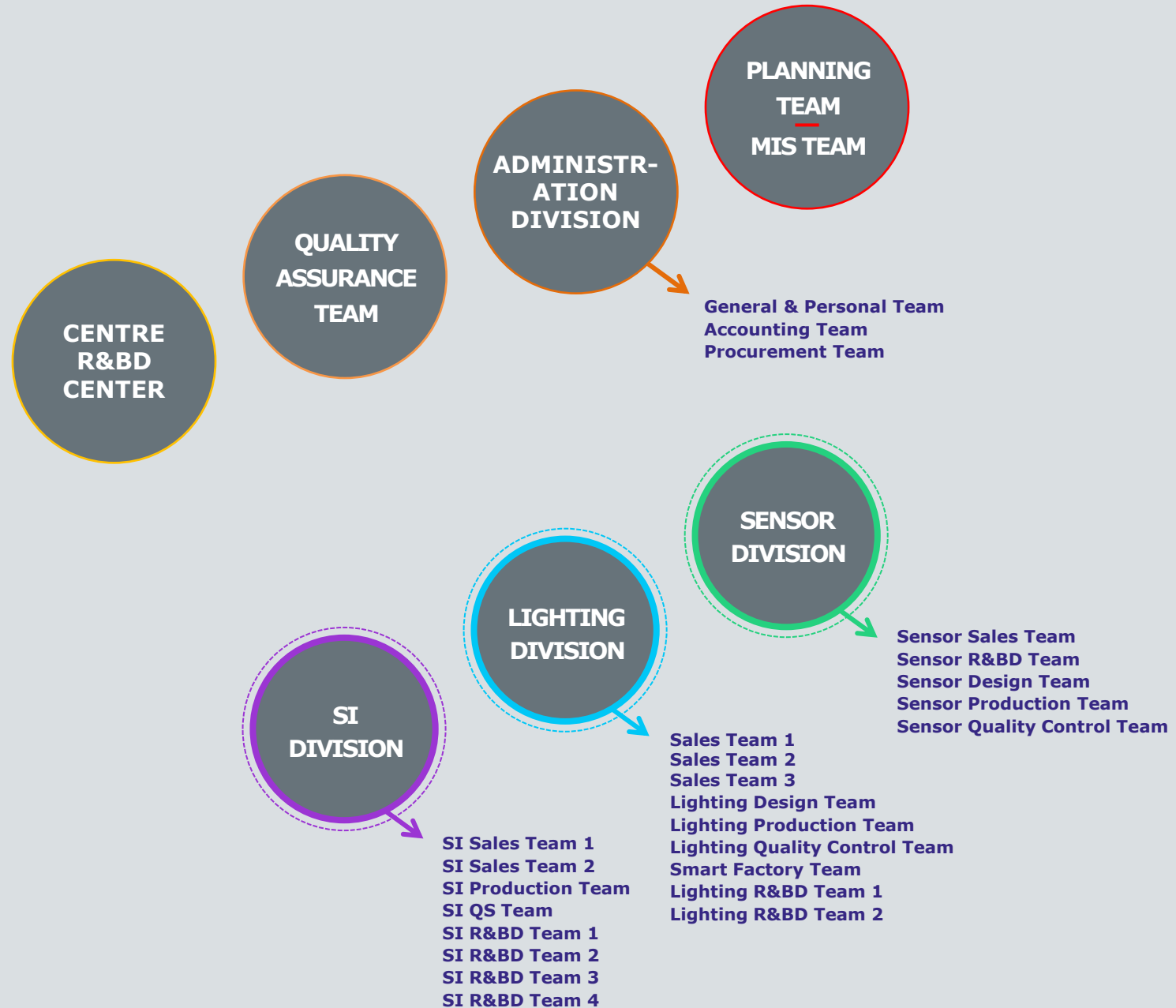
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Financial Status

DECEMBER, 2022 (unit. Millionwon)

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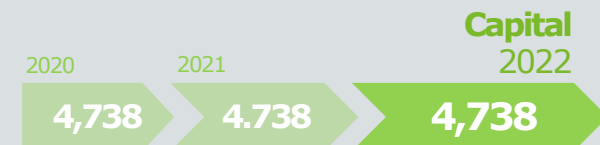
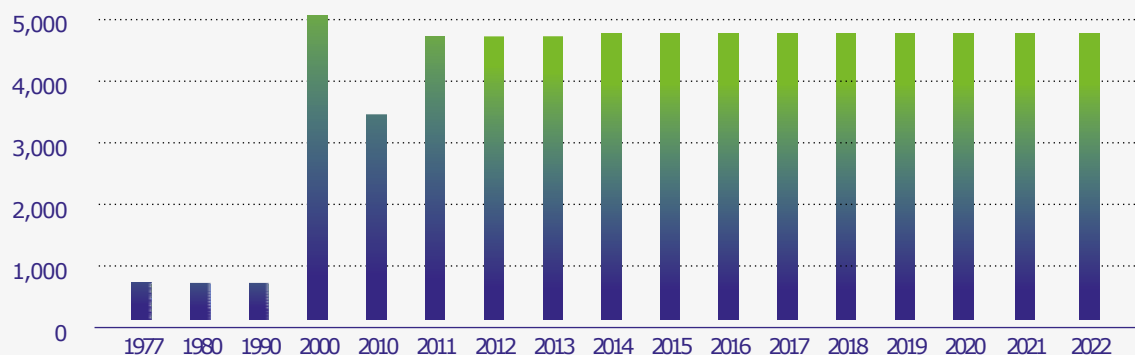
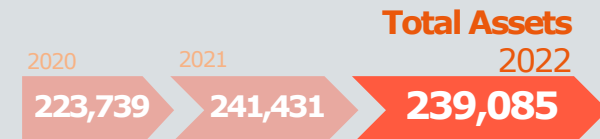
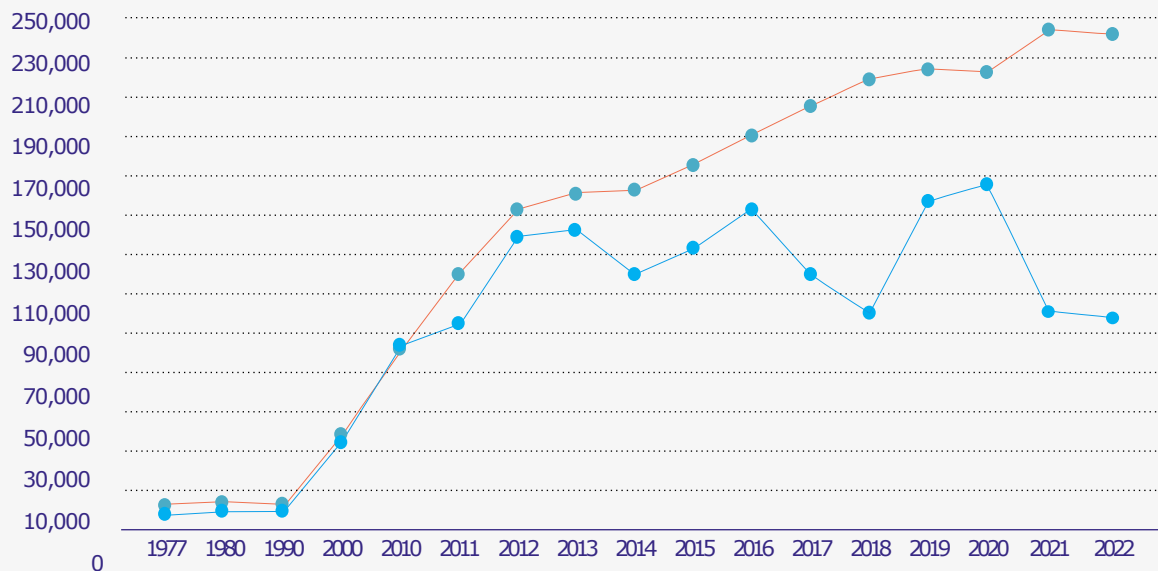
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Certification of Approval

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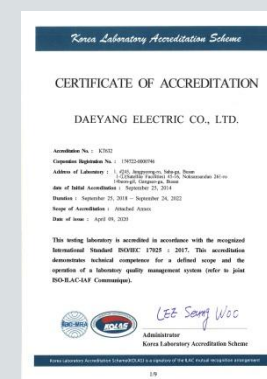
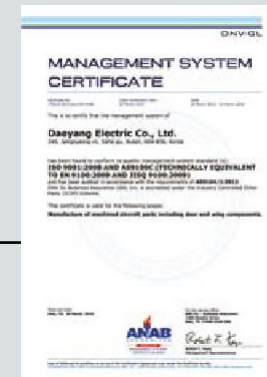
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> **2,500** Certificates
(up to 1st SEP. 2022)

UL	ABS
LCIE	KR
Sira	LR
KGS	BV
KOSHA	SERCONS
KRH	RINA
KTL	CCS
RS	DNV • GL
INERIS	KS
KSC POLAND	IRIS

ISO 9001:2015
DQMS (KDS 0050-9000-4)
ISO/TS 22163 :2017
IATF 16949:2016
ISO 26262:2011
IECEX CoC Certificate Service Facility
SQ (SupplierQuality)
KOLAS

ISO 45001:2018
ISO 14001:2015



Major Product

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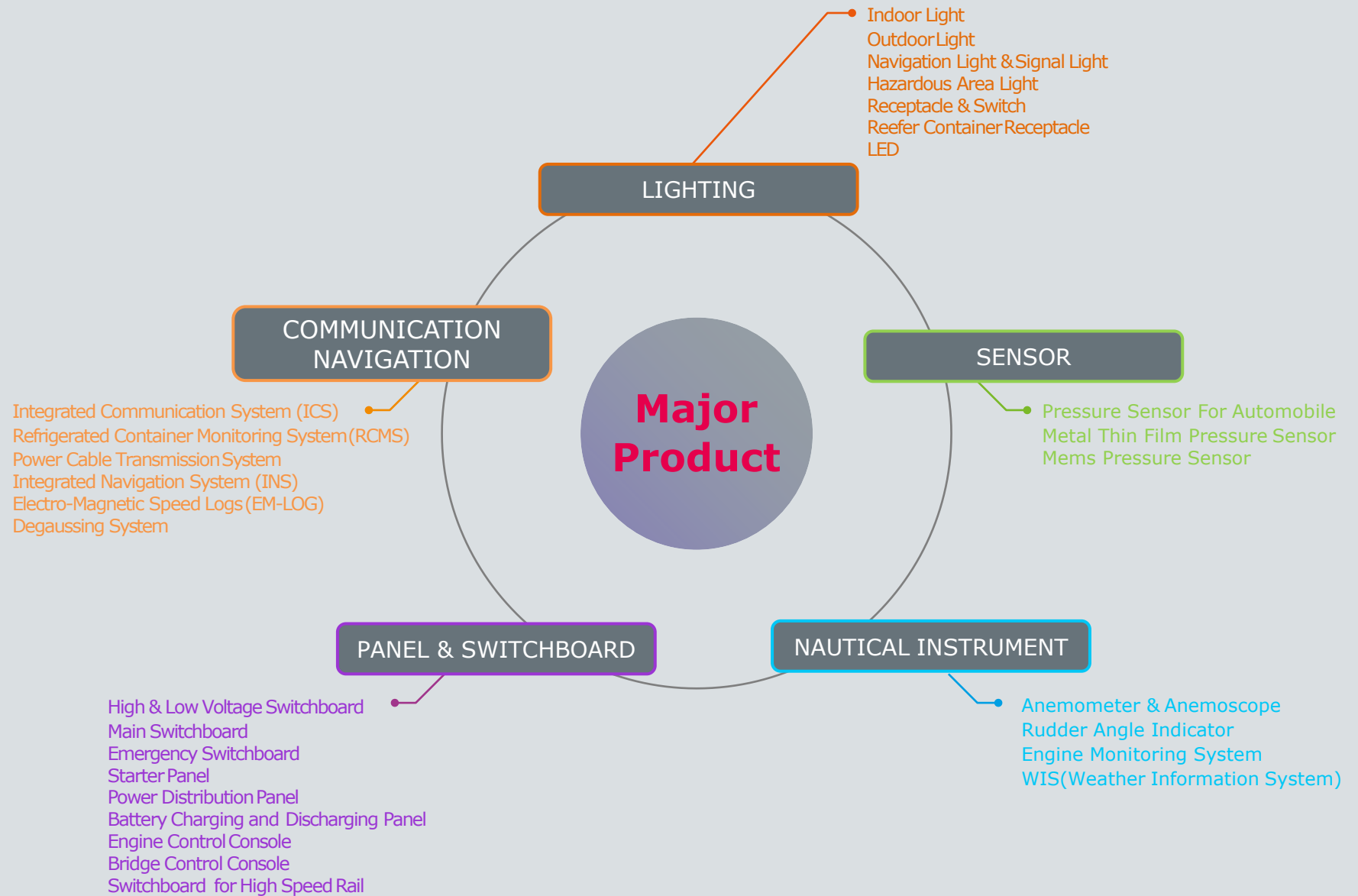
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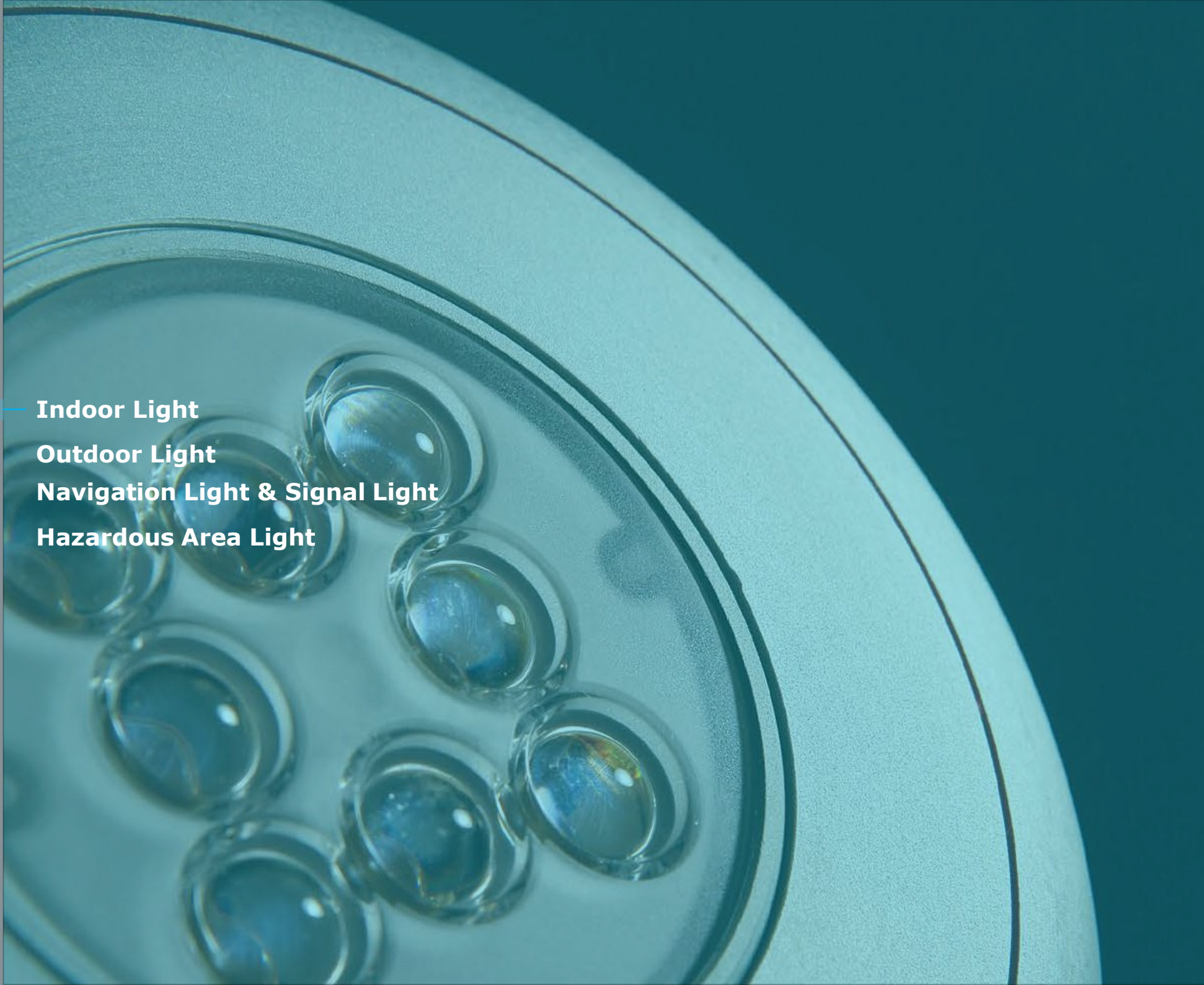
Worldwide
Sales Network

Indoor Light

Outdoor Light

Navigation Light & Signal Light

Hazardous Area Light



Lighting Product

We will continuously seek the lighting engineering based on our long experience and know-how of the lighting.
We will provide the best solution for all fields of lighting, such as the industrial scenery, and environmental lighting.

- 1. Indoor Light**
- 2. Outdoor Light**
- 3. Navigation Light & Signal Light**
- 4. Hazardous Area Light**



Indoor Light



FL-WS-TH



FL-NFD



LEB-NF



LEB-NL



LEB-WS



LEB-NS



LECO115NFH / LECO115NFL



FL-WS-S

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Outdoor Light



FL-WS-U



FL-WS-PC



LECD09-U



IPH



PF-42SI



PS60LL-550UWCF



PF125L-550UWCF



PF30L-550UWCF

Navigation Light & Signal Light



IW-01



IS-P/IS-B



IS-P



MK-S



DDS-84ABC



A2-D



A2L-DM06H



A2L-SM06H



PC-K

Hazardous Area Light

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FL-edg



FL-220/240edgBu



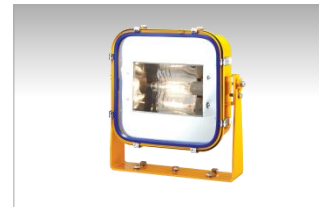
FL-220/240WFedg
FL-220/240WFedgBu



FL-220/240edgG
FL-220/240edgBuG



EXF-614



PF50HnRT2BSI-226UWM2



PF42SnRT2BI-226UWM2W



PF-40SBX2



EXLED-1AG



EXLED-1AD



EXLED-1BG



EXLED-1BD



PF-BX2



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Communication & Navigation system

We continuously develop communication systems for ships; in particular

ICS (Integrated Communication Systems) for navy vessels and navigation systems such as ECDIS, EM-LOG.

ICS

ADICS-21

WIRAS

RCMS

STC

EM-LOG

ECDIS

DRT



Typical Voice Terminal (MVT-35)



Typical Voice/Data Terminal (MDT-128)



Switchboard & Console

1. Main switchboard
2. Emergency switchboard
3. Group starter
4. Bridge Control console
5. Engine control console



1. Main switchboard

The main switchboard is newly designed for commercial marine application. It has many advantages in design and is manufactured with compactness and ruggedness. The main switchboard meets the requirements of classification societies such as LRS, ABS, DNV, GL, BV, NK, KR and complies with IEC439-1 (option)



2. Emergency switchboard

The Emergency switchboard is used for automatic start of emergency generator when power supply is the main switchboard fails. The panel consists of generator panel, feeder panel, emergency group starter panels and a shore connection box. The requirements of classification societies such as LRS, ABS, DNV, GL, BV, NK, KR be with the emergency switchboard.

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3. Group starter

The groups starter is a newly designed and manufactured for easy installation, space saving with high reliability and safety. Especially the layout of components and units provides easy operation and maintenance, and simultaneously compacts design provides less weight and requires less space for installation. The group starter meets the requirements of classification societies and complies with international standard(IEC)



4. Bridge control console

The bridge control console had been upgraded for hardware and software in system, has several features in design and manufacturing.

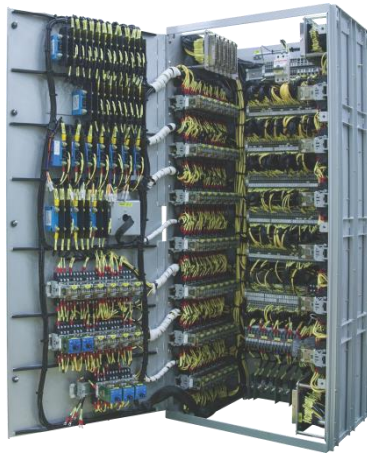


5. Engine control console

The engine control console is continuously developed in design of hardware and software, and has several features with easy operation, monitoring and maintenance.

Rolling Stock Equipment

1. Electric Distribution board
2. End Cubicle Module
3. Low/High Voltage Box & Plate
4. Testing Equipment



1. Electric Distribution board

The Electrical Distribution Board is custom design considering vibration and external environment.

The Electrical Distribution Board consist internal and external wiring is connected to all electrical devices through the terminal block. It has easy installation and maintenance.

The main functions of the Electrical Distribution Board is Radio device power control, Guide device power control, TCMS(Train Control Monitoring System) Signal communication power control, Door power control, Power supply for braking control, Auxiliary air compressor valve control and so on.



2. End Cubicle Module

It is possible to manufacture a waterproof and dustproof type Electrical Distribution Board according to IP environment and the environment of the train.



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3. Low/High Voltage Box & Plate

The Low & High Tension Junction Box & Plate are custom designs which considers vibration and external environment. The Low & High Tension Junction Box & Plate is distribution of power and communication lines. The function of exchanging power and communication line between a vehicle, and external and internal wirings can be easily connected to the connectors.

The main functions of the Low & High Tension Junction Box & Plate are Electrical connectors for connection and disconnection of circuits, Low-voltage control power and signal communication power supply, supply auxiliary power, and so on.



4. Testing Equipment

We have developed our own tester to increase the reliability of Electrical Distribution Board of special ordered.

Main Product

PLC Testing Equipment, Waterproof Testing Equipment, Low Tension Junction Box Testing Equipment, Torsion Testing Equipment



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UUV

Daeyang is backed by over 43 years of experience in the design, development, manufacture, and installation in marine, shipbuilding and industry.

We have aggressively invested about 10 % of annual sales for R&D to pursue innovation and the development of new products.

Especially, since we have been performing the development of the UUV which is the unmanned underwater vehicle, in 1990s, we succeed in the development of 400m SAUV, on May, 2003. We also succeed in the development of 6000m UUV as the forth of the world, on November, 2006. Currently, the UUV is used for the deep sea exploration to help the ecological environment research and the discovery of new natural materials for the development of new products in the Pacific.



SAUV

Navigation and Manipulator
Systems of a Semi-Autonomous
Underwater Vehicle



ROV

Remotely Operated Vehicle

UUV-LAUNCHER



UUV6000

Unmanned Underwater Vehicle



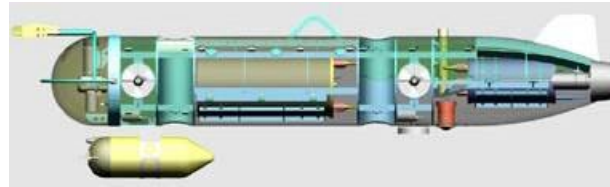
MDV Mine Disposal Vehicle

Objective

Development of Technology for a 400m-class Mine Disposal Vehicle as a part of ACTD(Advanced Concept Technology Demonstration) project

Period

2008.10~2011.06



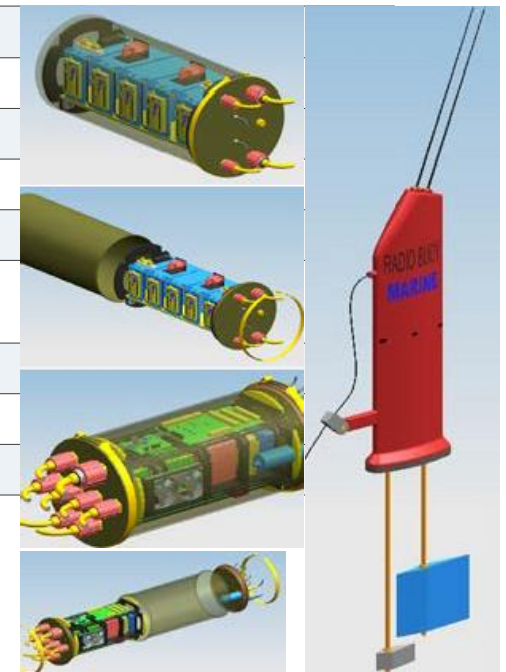
Contents

Development of Design and Integration Technology for MDV

- Development of Technology for Automatic Control
- Design and Application of Complex Navigation Algorithm
- Development of Technology for precisely control of Communication System

Specifications

Dimension(LxØ)	3.512(m)x0.55(m)
Material	AL6061, FRP
Sea State	Below 4
Depth	400m
Max. speed	7knots
Max. time	7 knots : 1.5 hours 3.5 knots : 3 hours
Thruster	For./Rev(2), Ver.(2), Lat(2)
Telemetry	Fiber Optic / Coaxial / RF
Power	Lithium Polymer Battery
Sensors	USBL, GPS, DVL, Multi-beamSonar, Forward-looking. Sonar Altitude Sonar, Camera/Light Pressure sensor, Compass, ...



Sensor

Daeyang supplies various types of sensors measuring temperature / pressure / humidity / ultrasonic flow as a module and as a system, which have been developed and manufactured on our own.

We have developed all the core technologies for the sensors such as MEMS(Micro Electro Mechanical System), SoC design, simulation and reliability test, etc.

Recently, we developed the pressure sensors for ESC(Electronic Stability Control) system for the automobile, and since 2014 we started to supply these sensors to HKMC and SYMC.

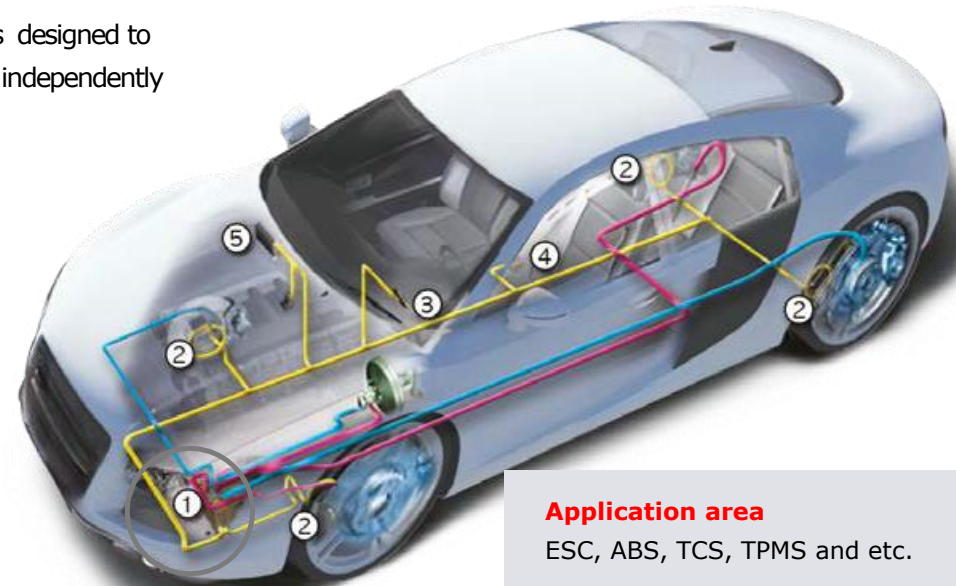
- 1. Pressure Sensor For Automobile**
- 2. Hydrogen Fuel Cell Pressure Sensor**
- 3. Pressure Sensor For ESC System**
- 4. Metal Thin Film Pressure Sensor**
- 5. MEMS Pressure Sensor**

1. Pressure Sensor For Automobile

The pressure sensor modules ESC(Electronic Stability Control) is designed to provide optimal operation to control the brake power of wheels independently under the condition where the steering system does not work.

Special Features

- Superior high pressure performance
- Operation to withstand harsh environments
- Excellent long-term stability
- Temperature compensation is convenient
- Integrated and assembled structure
- Superior burst pressure performance
- There is no concern leakage pressure
- Superior corrosion resistance properties



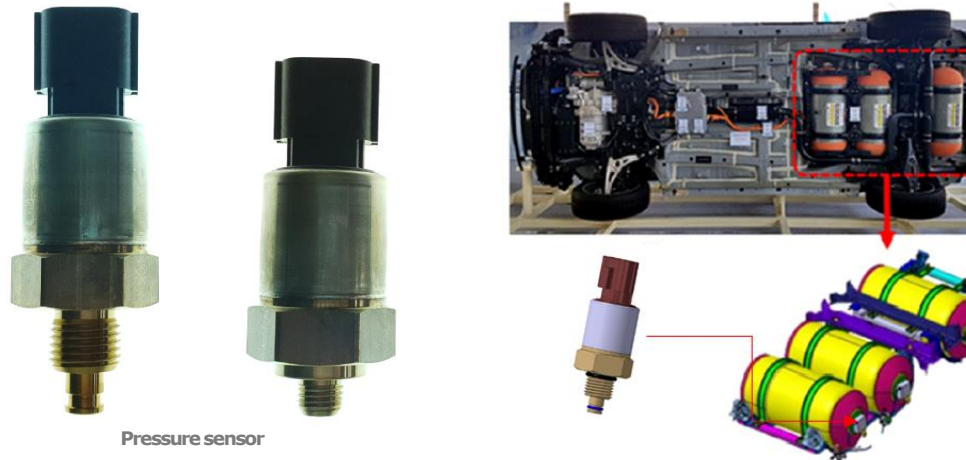
Application area

ESC, ABS, TCS, TPMS and etc.

2. Hydrogen Fuel cell Pressure Sensor

The Pressure sensors for hydrogen fuel cells have been developed for hydrogen cars.(NEXO)

We developed a pressure sensor used in the hydrogen fuel storage system. This pressure sensor shows excellent durability and precision even in extreme environments of high pressure, low temperature and high temperature above 700 bar.



Pressure sensor

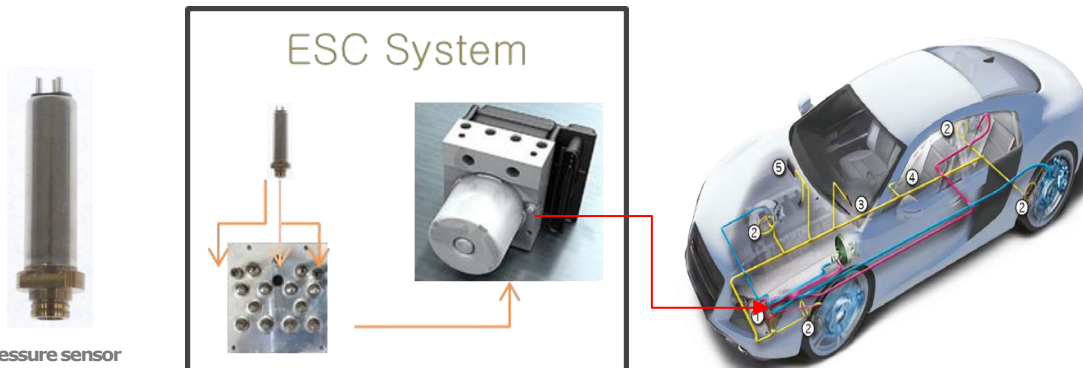
Application area

Hydrogen fuel cell vehicles, industrial hydrogen fuel systems

3. Pressure Sensor of ESC System

The pressure sensor modules for ESC(Electronic Stability Control) is designed to provide ego optimal operation to control the brake power of wheels under the condition where the steering system does not work.

The ESC system is also designed to have the brake and start-up power of each wheel controlled independently and is used in ABS and TCS as a basic item since it detects and controls steering wheel angle, braking pressure, and vehicle speed.



Pressure sensor

Application area

ESC, ABS, TCS, TPMS and etc.

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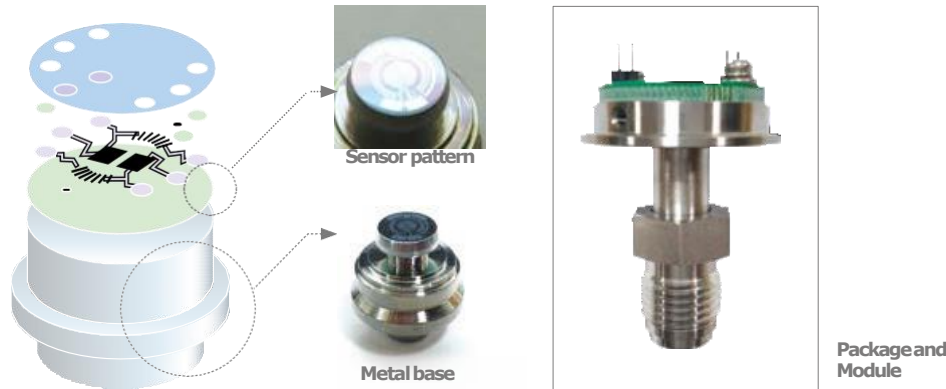
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4. Metal Thin Film Pressure Sensor

We developed pressure sensor for high temperature and high pressure area by using metal thin films, deposited by the sputtering system. This kind sensor has the excellent performances like linearity, reliability and safety for harsh environments.



Application area

Pressure transducer and transmitter, industrial automation, ventilation system, automobiles, aircrafts, hydraulic system, compressor, medical instruments

5. MEMS Pressure Sensor

Daeyang's MEMS(Micro Electro Mechanical Systems) pressure sensor has excellent properties just because of using advantages of Si semi-conductor with high sensitivity and the metal structure with high safety. Because of these characteristics, the operation range is wide from 1 bar to 1,500 bar and moreover



Application area

Pressure transducer and transmitter, industrial automation, ventilation system, automobiles, aircrafts, hydraulic system, compressor, medical instruments

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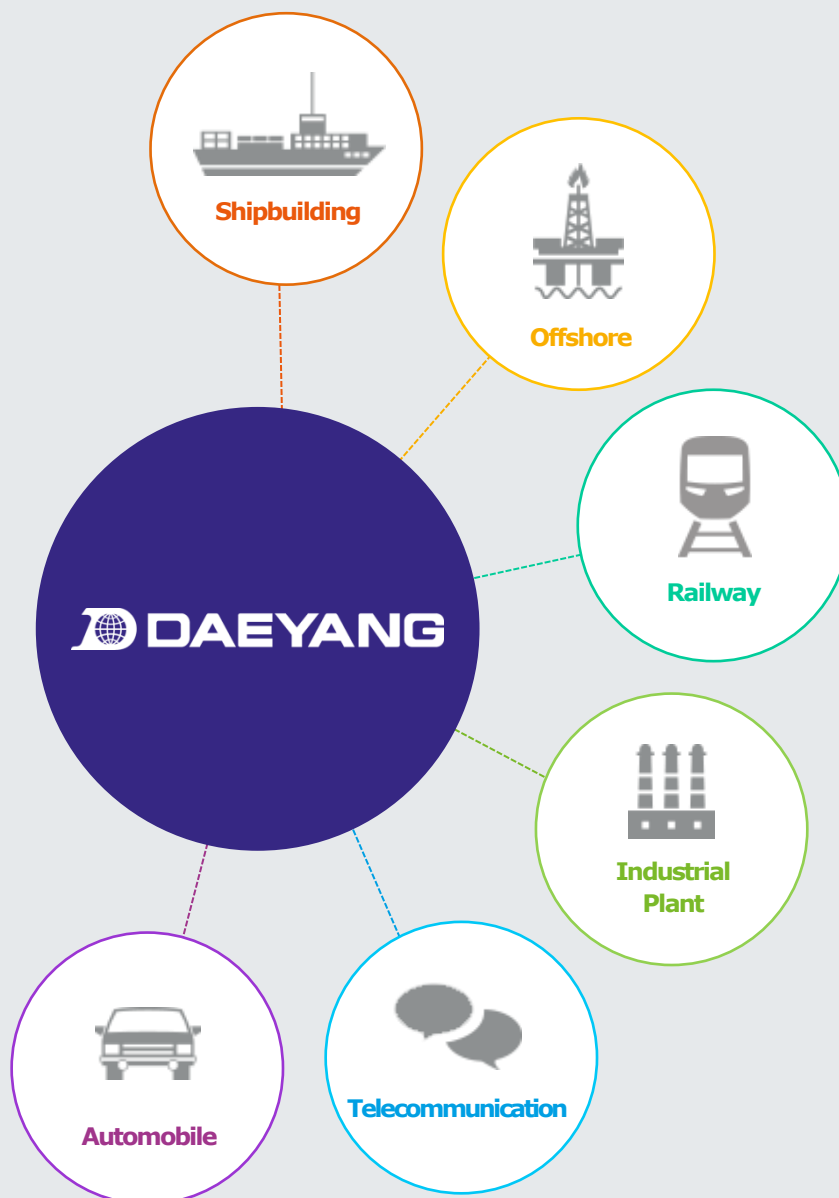
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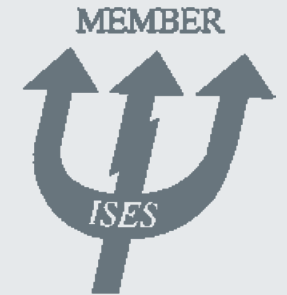
MDV

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- HHI
 - HMD
 - HSHI
 - DSME
 - SHI
 - HHIC
 - STX
 - IMABARI
- SHIN KURUSHIMA
 - TSUNEISHI
 - JMU
 - OSHIMA
 - MITSUBISHI
 - ONOMICHI
 - SUMITOMO
 - KYOKUYO
- SANOYAS
 - NAIKAI ZOSEN
 - MES
 - SWS
 - CHINA SHIPPING
 - COSCO
 - CSIC
 - BOHAI
- HHI
 - DSME
 - SHI
 - CMHI
- CIMC
 - COSCO
 - Sembcorp
- ROTEM
 - DAWONSY
- HITACHI
 - SRST
- HDEC
 - DWENC
 - DAELIM
 - GSENC
 - SSCNT
- SKEC
 - HEC
 - TOYO-ENG
 - KHNP
 - KEPCO
- SK TELECOM
- SK PLANET
- HMC
 - KMC
- SMC
 - MANDO

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Country	Company Name	Website
Argentina	Turbogen	www.turbogen.com
Australia	Read's Electric Company PTY. Ltd	www.readselectric.com
Belgium	Maintenance Partners NV	www.maintenancepartners.com
Brazil	Metalock Brasil	www.metalock.com.br
Canada	Hostmost Marine Services	www.hostmostgroup.com
China	Changshu Ruite Electric Co., Ltd	www.cn-ruite.com
	Dalian Shun Ze Marine Electrical Engineering Co.	www.dlsz.cn
	Huludao Haitong electric equipment manufacturing Co., Ltd.	www.hldht.cn
	Jiangsu Hiscaler Electric Co., Ltd	www.hiscaler.com
	RMS Marine Service Company Ltd.	www.rmsmarineservice.com
	Saiemico Electric & Automation Ltd	www.saiemico.com
	Shanghai NSE Co. Ltd.	www.nse.net.cn
	TIANJIN HAIRUN MARINE TECHNICAL CO.	www.tjhairun.com
	Zhejiang Xin Ya Electric Development Co. Ltd.	www.xy-cd.com
Colombia	Electronica Maritima ITEC SAS	www.iteccolombia.com
Croatia	PELIG D.O.O.	www.pelig.hr
Feroe Islands	MP Teknik Sp/f	www.mpt.fo
France	MACOR (Amarix Group)	www.macor.fr
Germany	Ing.-Buero Querin GmbH	www.querin.com
	Karle & Fuhrmann	www.karle-fuhrmann.de
Gibraltar	Sandvik Marine Group	www.sandvikservice.com
Greece	Nova Electronics s.a.	www.novaelectronics.gr
Italy	A. Santamaria Spa	www.a-santamaria.it
	Eligroup	www.eligroup.net
	S.I.R.M. spa	www.sirmspa.it
Japan	Bemac Uzushio Electric Company Ltd	www.bemac-uzushio.com
Lithuania	RSB Novikontas Ltdd	www.novikontas.eu

Country	Company Name	Website
Mexico	Marine Radio Surveyors	www.marineradiosurveyors.com
Netherlands	Navico	www.navico.com
	PAT-KRUGER GROUP	www.pat-kruger.com
Nigeria	Radial Circle Telecommunications Ltd	www.radialcircle.com
Panama	BWSC Panama, S.A.	www.bwspanama.com
	Electromar Services SA	www.electromarpanama.com
	Intermaritime Group	www.intermaritime.org
	Talleres Industriales SA	www.talleresindustriales.com
Poland	Enamor	www.enamor.com.pl
	EPA Marine sp. z o.o	www.epamarine.pl
Romania	Navtron SRL	www.navtron.ro
Singapore	Cydet Electrical Engineering PTE Ltd	www.cydet.com.sg/cydet
	Jason Electronics Pte. Ltd.	www.jason.com.sg
South Africa	SMD Telecommunications Pty (Ltd)	www.smd-marine.com
Spain	AAGE Hempel	www.aagehempel.com
	Crosscomar S.L	www.crosscomar.com
	Hermanos Alfaro	www.halfaro.com
Sweden	Laholm Marine & Industry Services AB	www.lmis.se
Taiwan	Reson Electronics	www.reson.com.tw
Türkiye	Besiktas Marine	www.besiktasmarine.com
United Kingdom	S.I.R.M. UK	www.sirmspa.it
U.S.A	Belfor Holdings Inc.	www.belfor.com
	Koffler Electrical Mechanical Apparatus Repair	www.koffler.com
	Seaboard Controls INC	www.seaboardcontrols.com
	Simplex Americas LLC	www.simplexamericas.com
Venezuela	C.A. Metalmecanica Industrial y Naval	www.camin.com.ve
	Radio Marina de Venezuela	www.radiomarinagroup.com

Worldwide Sales Network

History of Daeyang

Organization

Financial Status

Certification

Major Product

Lighting Product

Communication &
Navigation systemSwitchboard &
ConsoleRolling Stock
Equipment

UUV

MDV

Sensor

Performance
Track RecordsWorldwide
Service NetworkWorldwide
Sales Network

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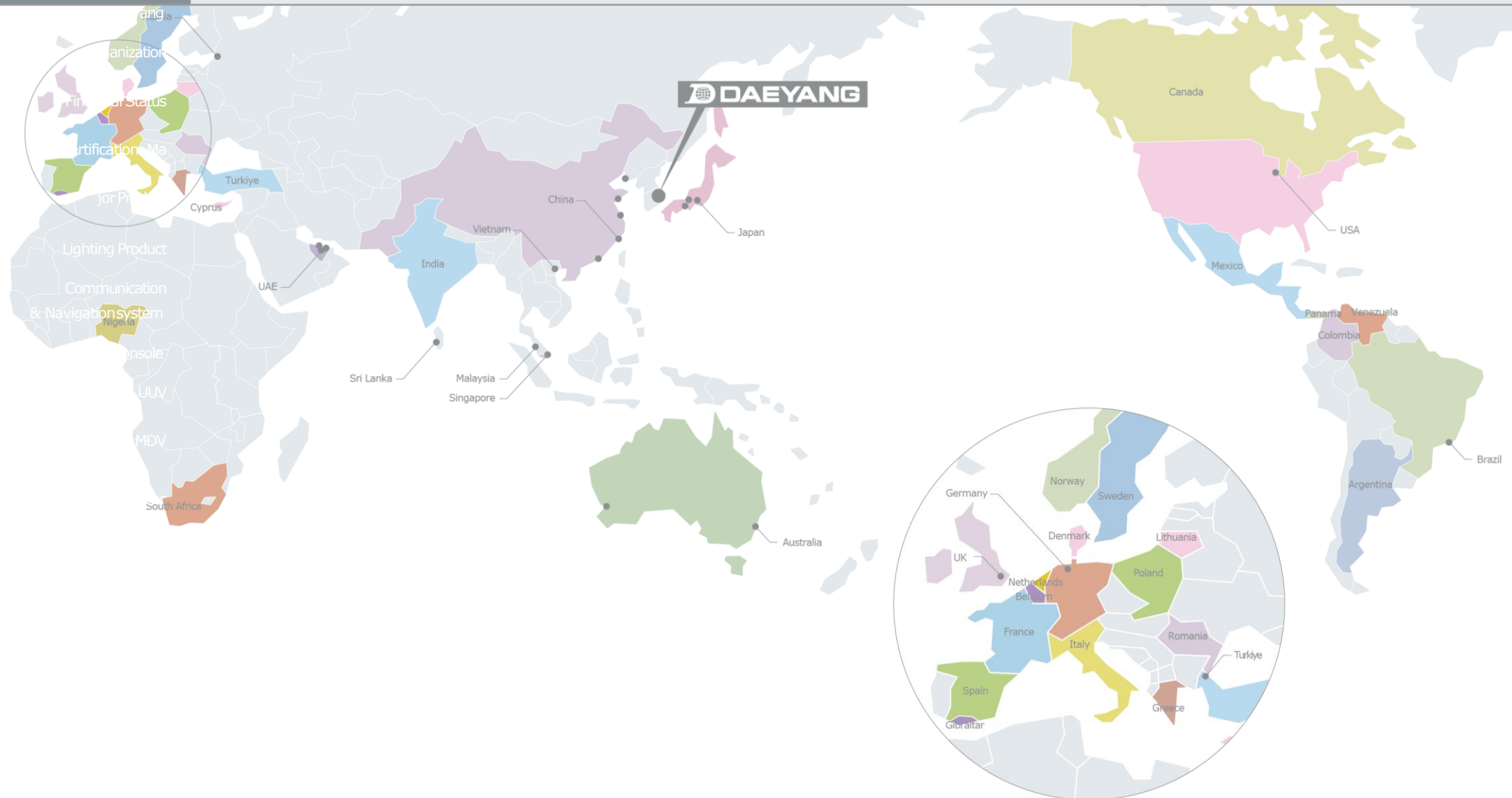
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