

# NAVIGATION LIGHT

Essential safety equipment for every voyage



# Company introduction

## · History

|      |    |                                                                                                        |
|------|----|--------------------------------------------------------------------------------------------------------|
| 2025 | 09 | HULE Electrical sole agency in South Korea.                                                            |
|      | 03 | CHANGZHOU Marine Cable sole agency in South Korea.                                                     |
| 2024 | 12 | Kaune sole agency in South Korea.                                                                      |
|      | 07 | Astro sole agency in Marine Segment.                                                                   |
|      |    | B-15 class back box achieves BV Certification for fire protection.                                     |
| 2023 | 12 | Registered vendor to KANGNAM Shipbuilding.                                                             |
|      | 09 | Registered vendor to MODEC.                                                                            |
|      | 08 | Registered vendor to SEATRIUM.                                                                         |
|      | 03 | Establishment of Unit Toilet Factory.                                                                  |
| 2022 | 05 | Registered vendor to HSG Sungdong Shipbuilding.                                                        |
|      | 04 | Acquired ISO 45001:2018 certification.                                                                 |
|      |    | Registered vendor to DAE SUN Shipbuilding & Engineering Co., Ltd.                                      |
|      | 02 | Registered vendor to Hyundai Heavy Industries.                                                         |
| 2021 | 09 | Registered vendor to Zvezda Shipbuilding in Russia.                                                    |
|      | 06 | Development of GRP Ex Junction Box certification completed.                                            |
| 2020 |    | Registered vendor to Hanjin Heavy Industries.                                                          |
| 2019 | 10 | Registered vendor to Hyundai Mipo Dockyard (HMD) Co., Ltd.                                             |
| 2014 | 06 | Registered vendor to DAEWOO Shipbuilding & Marine Engineering Co., Ltd. -Low Location Light for H.3401 |
| 2013 | 10 | Registered vendor to SAMSUNG Heavy Industries Co., Ltd.                                                |
| 2009 | 02 | Established KME Co., Ltd.                                                                              |

## · Location



### Busan (Head Office)

29, Nakdong-daero1302 beon-gil,  
Sasang-gu, Busan, South Korea



### Gimhae (Office/factory)

25, Seobu-ro 1331beon-gil, Juchon-myeon,  
Gimhae-si, Gyeongsangnam-do, South Korea

# Leading Ship Safety, KME Co., Ltd.

KME Co., Ltd. is a leading marine equipment manufacturer that prioritizes safety at sea. We enhance the safety and efficiency of the global shipping industry by providing reliable products using the latest technology and high-quality components.

## Product Introduction

### · DHR80 POLAR Navigation Light

The DHR80 POLAR is a high-performance navigation light suitable for various vessels such as container ships, LNGCs, tankers, and bulk carriers. It clearly marks the vessel's position in both daytime and nighttime conditions, helping to prevent collisions at sea.





# Product Features

- Key Contents



## High-Brightness LED

Utilizes automotive-grade LEDs to maintain high brightness with low power consumption and offers a long lifespan.



## Durability

Made from high-quality components, it is one of the most durable and robust products in its class.



## Visible from a Distance

Installed at a high point on the ship, ensuring visibility from afar.



## Supports Various Colors

Available in red, green, white, and blue to comply with maritime regulations.



## Energy Efficient

Operates stably for long periods with low power consumption.

# Product Specifications

## · NAVIGATION LIGHT



DHR80 POLAR

(Type tested from -55°C to +55°C)

- Black, hard-anodized seawater-resistant aluminum
- POM insulation sleeves to prevent galvanic corrosion
- UV-resistant borosilicate glass lens
- Epoxy-potted power supply for maximum protection

※ Application: sea-going vessels navigating in Arctic regions with a length of more than 20 metres



SPARE PART KIT

# Color Options

· The DHR80 POLAR supports various colors to ensure safe navigation according to maritime regulations



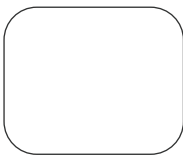
RED

Port side light and all-round signal light (3 NM)



GREEN

Starboard side light and all-round signal light (3 NM)



WHITE

Masthead (6 NM), stern (3 NM), and all-round light (3/5 NM)



BLUE

Non-COLREG signal light for special applications (1 NM)

Each color uses high-brightness LEDs to ensure clarity, effectively communicating the vessel's position and direction in various maritime conditions.

# Product Certification

Certified with an IP66 rating for complete protection against dust and water.



Ingress Protection

First "6" (Dust Protection): Dust-tight — complete protection against dust ingress (highest solid particle protection level)

Second "6" (Water Protection): Protected against powerful water jets from any direction, ensuring reliable operation in harsh marine environments

| Specification    | Value                                                      |
|------------------|------------------------------------------------------------|
| Power Supply     | 230VAC 50/60Hz (115VAC 50/60Hz available on request)       |
| Heating Element  | Transparent heater 35W with thermostat (5/10°C)            |
| Protection Class | Min. IP66 with membrane vent                               |
| Insulation Class | Class I (grounded)                                         |
| Cable            | THERMFLEX 180 EWKF-C, 5m length                            |
| Mounting         | Bracket or base mounting (standard)                        |
| Housing          | Seawater-resistant aluminum, hard anodized 70µm black      |
| Base             | Stainless steel 316, non-magnetic                          |
| Lens             | Borosilicate, shock and temperature resistant              |
| Visibility       | Masthead 6 NM / Sidelights & Stern 3 NM / Manoeuvring 5 NM |

# Future-Oriented Vision

KME Co., Ltd. is committed to continuous research and development to improve safety and efficiency in the maritime industry.



## Continuous Innovation

We will lead the advancement of the maritime industry by continuously developing new technologies and solutions.



## Global Partnerships

Strengthening our global network to create value in various markets by collaborating with customers worldwide.

KME supports your safe voyage through the highest quality and service.  
Experience safe and efficient navigation with the DHR80 POLAR navigation light.





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