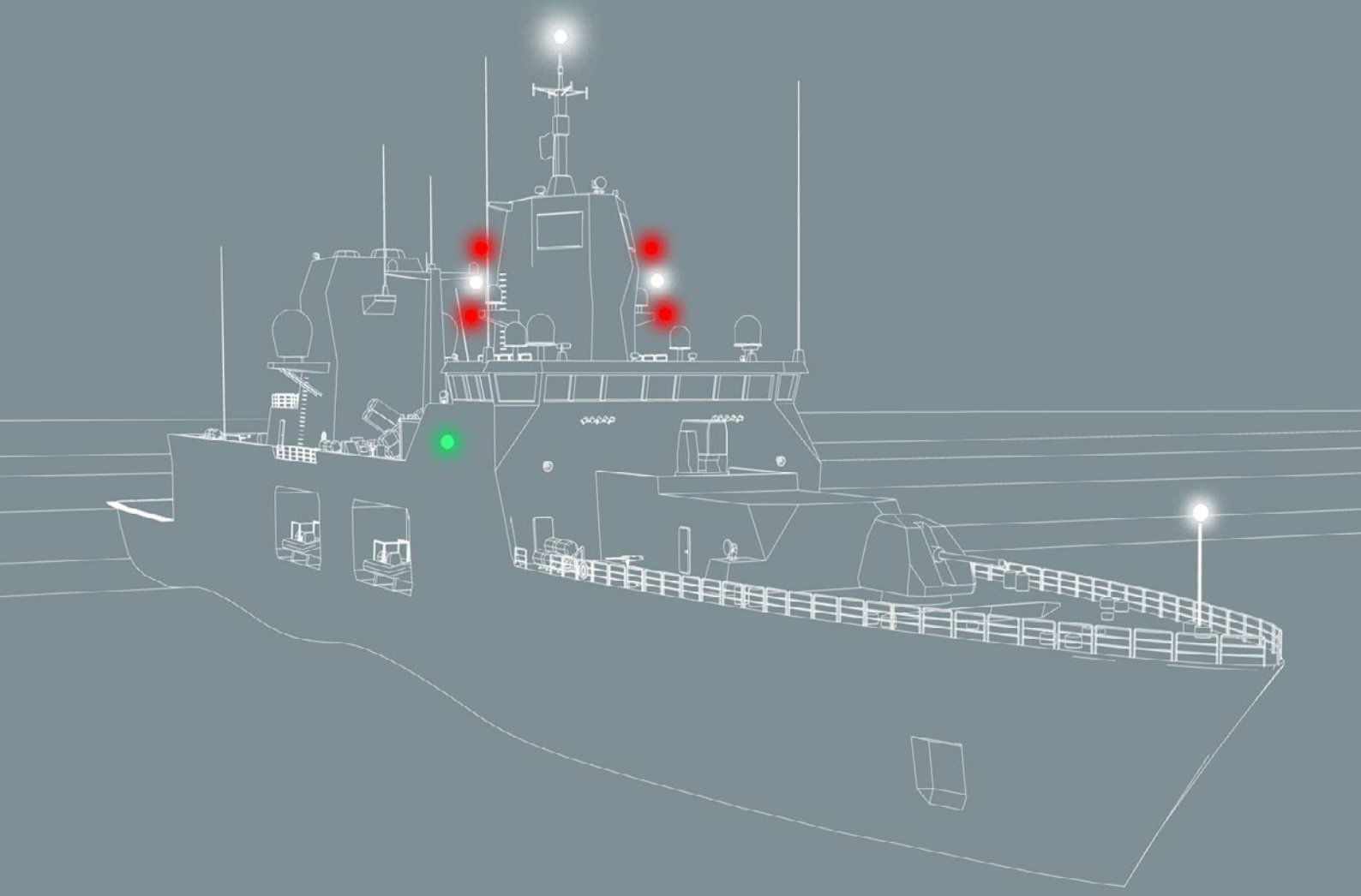
OPTONAVAL

**OPTONAVAL** UNIVERSAL
**UNL** NAVIGATION
**SYSTEM** LIGHTS

# NAVIGATION LIGHTS

SOLID | MONITORED | MAINTAINABLE


# TOUGH | SAFE | STATE-OF-THE-ART TECHNOLOGY



# A CONCEPT RETHOUGHT FROM SCRATCH

Family of navigation lights

Common parts, different functions

High performance LEDs

Built-in redundancy

Dimmable for NVG operations

Heating for polar service

Robust design

Easy on-board maintenance

Weight reduction by smart cabeling

Touch Panel controls and / or integration in bridge management systems

Wheel mark certification by DNV

# PRODUCT RANGE

- TOP LIGHT
- SIDE LIGHT
- ANCHOR LIGHT
- STERN LIGHT
- NUC LIGHT
- RAM / CBD LIGHT
- TOW LIGHT
- SUEZ LIGHT
- PANAMA LIGHT
- MANOEUVRE / MORSE LIGHT
- ANY SPECIAL LIGHT
- CONTROL AND MONITORING

MED CERTIFIED

TYPE APPROVED PRODUCT DNV DNV.COM/AF

**www.optonaval.de**

# **COMPETENCE & PRECISION** | HANDCRAFTED IN HAMBURG

# PERFECT MARRIAGE OF FUNCTION AND TECHNOLOGY

Taylor-made project solutions

Low life cycle cost

Meeting highest requirements in quality and functionality

Focus on low maintenance

Built for rough marine environment

# MATCHING NAVAL DEMANDS

Customizable coating/colour

Side light integrated in superstructure, mast etc.

Radar Cross Section friendly

Clear shape underlines state-of-the-art technology

# **IT WORKS** |
# THEY WARN YOU BEFORE A PROBLEM ARISES

# SYSTEM HEALTH MONITORING

Fully monitored by multiple electronic sensors

Measuring internal humidity, temperature, brightness and electric flow

Ensuring highest reliability and sound warnings, long before the light may fail

Active time counters

# SAFETY

Fulfilling all applicable standards

- EMC tested
- Shock tested
- Vibration tested

Light intensity always as required

Round shape – best tightness

Massive aluminium body for maximum heat dissipation

# **CONTROLS**
# AS YOU LIKE IT

# MULTIPLE CONTROL OPTIONS

Intuitive graphical user interface

Option to integrate in existing bridge system

Hardwired buttons as per regulatory requirements

Assisting in identification of malfunctions

Tracking of maintenance history

# REDUNDANCY

Switch over in case one light fails

Built-in test when switching on

# **MODULAR CONSTRUCTION** | ACCESSIBLE FOR MAINTENANCE

# MODULARITY

Maximum of common parts

Stacks with different light colours

Shaders for different functions

# INSTALLATION

Common base plate

No special tools required for installation

Sensitive parts mounted just when needed

Single cable connection

Cable outlet side or bottom

Bayonet catch for easy mounting and removal

Customized solutions for refits

# MAINTENANCE

Common spare parts at minimized demand

Light elements simply stacked – no soldering

Interchangeable parts

Maintenance in workshop – not exposed to weather

Planned maintenance instead of breakdown repair

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