

**OPTONAVAL
UNL
SYSTEM**

**UNIVERSAL
NAVIGATION
LIGHTS**

NAVIGATION LIGHTS

HIGH TECH PACKED IN PERFECT DESIGN



OPTONAVAL
UNL
SYSTEM

UNIVERSAL
NAVIGATION
LIGHTS

THE NEED TO HAVE BECOMES A PLEASURE TO OWN





A CONCEPT RETHOUGHT FROM SCRATCH

Family of navigation lights

Common parts, different functions

High performance LEDs

Built-in redundancy, automatic
switch over

Elegant and robust design

Easy onboard maintenance

Customized colour coating options

Touch Panel controls and/or integration
in bridge management systems

Serviceable by trained crew

Wheel mark certification by DNV GL

PRODUCT RANGE

TOP LIGHT

SIDE LIGHT

ANCHOR LIGHT

STERN LIGHT

NUC

RAM / CBD

TOW LIGHT

SUEZ LIGHT

PANAMA LIGHT

ANY SPECIAL LIGHT

CONTROL AND MONITORING



IT WORKS –
AND IT WARNS YOU BEFORE A
PROBLEM ARISES





CONDITION MONITORING

Fully monitored by multiple electronic sensors, measuring internal humidity, pressure, temperature, brightness and electric flow

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

Active time counters

REDUNDANCY

Automatic/controlled switch over in case one light source fails

Built-in test when switching on

SAFETY

Fulfilling all applicable standards

Light intensity always as required

Round shape – best tightness

Massive aluminium body for maximum heat dissipation

WORKS LIKE IT LOOKS –
JUST PERFECT





PERFECT MARRIAGE OF DESIGN 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 DESIGNER'S DEMANDS

Customizable coating/colour

Side light integrated in superstructure, mast etc.

Modern shape underlines state-of-the-art technology



CONTROLS AS YOU LIKE IT

The image displays the OPTONAVAL control interface, which is divided into several functional areas:

- Navigation Lights Panel:** Located on the left, it contains buttons for various light configurations: Port upper NUC, Port mid RTM, Portside light (highlighted with a green border), Port lower NUC, Anchor, Stbd upper NUC, Masthead (highlighted with a green border), Stbd mid RTM, Stern light, Stbd lower NUC, and Starboard light (highlighted with a green border). A legend for Status LED indicates: ON = Light on, OFF = Light off, and FLASH = Failure.
- Groups Panel:** Located on the right, it features buttons for 'Underway' (highlighted with a green border), 'Restrict to Manoeuvre', and 'Not under Command'.
- System Health Panel:** A pop-up window in the foreground shows a list of system components with their status. The Masthead component is highlighted with a red border and a warning icon, indicating a failure. The status for Masthead is 26 °C, 83% (in red), and 1.006 atm.

The background interface also features a central graphic of a ship's mast with a warning icon and the text 'SYSTEM FAILURE'.



CONTROL AND MONITORING

Multiple options for control panel

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

MODULAR CONSTRUCTION
ACCESSIBLE FOR MAINTENANCE –
JUST REPAIR IT WHEN NEEDED





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 minimize stock demand
- Light elements are simply stacked – no soldering
- Interchangeable parts



Optonaval GmbH
Dampfschiffsweg 11
21079 Hamburg
Germany

+ 49 40 60 94 49 0 - 0
info@optonaval.de

© Optonaval GmbH

ON UNL Brochure 11/2020



www.optonaval.de