



HELIPAD

LED TECHNOLOGY



Optonaval

HVLAS OPTONAVAL GMBH

HELICOPTER VISUAL LANDING AID SYSTEMS

Optonaval GmbH are the leading experts in engineered helicopter operations. From early design stage, through project realization until final acceptance Optonaval supports their customers to secure safe helicopter operations within the requested limits and specified regulations. In addition, they design, produce, integrate and maintain Helicopter Visual Landing Aid Systems (HVLAS) tailor-made for Navy Vessels.

OPTONAVAL STANDS FOR

- A market leading range of products enabling helicopter landing in open sea environment
- Integrated systems supporting pilots in safe operations according to military standards
- The perfect combination of proven design and cutting-edge technology
- Customised project solutions
- Focus on low maintenance and high availability
- A dedicated team with more than 10 years experience in the design of HVLAS

MORE THAN EXPECTED

ACCEPTING OVERALL SYSTEM RESPONSIBILITY

Optonaval accepts the responsibility for the whole helicopter package on board Navy Vessels. Engineering, production, installation and commissioning (EPIC) remains in one hand.

MATCHING QUALITY AND INNOVATION

Each individual Optonaval product meets the highest demands in quality and function. Built with the latest in LED technology, revolutionary sensors and control systems.

MODERNISATIONS AND REFITS

Upgrades of Navy Vessels are facilitated by using Optonaval's modular equipment. Flexibly integrated, design adopted to customer's standards.

DEDICATED TO CUSTOMER SUPPORT

In case of any problem Optonaval experts are available to analyse and solve it. Communication 24/7, prepared to assist on board wherever needed.



DEVELOPED FOR THE HARSHTEST ENVIRONMENTS

MONITORING HELICOPTER OPERATIONS

SURVEILLANCE | SUPPORT | SYSTEM INTEGRATION

- Based on cutting edge LED technology
- Certified equipment according to military standards
- Certified helipad supporting ship command and pilots acc. to CAP 437
- Control and monitoring software developed by Optonaval
- Integration of all peripheral helicopter service components
- Data and communication infrastructure
- Interfaced to ship's command system
- Intuitive touch panels, easy to operate
- Recommending the angle of approach based on weather and course data



PRODUCT RANGE

DRIVEN BY GOOD DESIGN

- Custom designed to Navy's and shipyard's specifications
- Able to operate with Night Vision Goggle under STANAG 1445
- High redundancy
- Dimmable from 0% to 100% brilliancy
- Withstanding harshest conditions
- Focussed on minimized maintenance

COMPREHENSIVE PRODUCT RANGE OF HELICOPTER VISUAL LANDING AIDS

- Glide Path Indicator
- Horizontal Reference System
- System Control Cabinet with Touch Panel
- Homing Beacon / Flash Light
- Deck Edge Lights / Perimeter Lights
- Illuminated Aiming Circle and "H"
- Obstruction Lights, VERTREP und HIFR Lights
- Deck Status Lights / Stop&Go Lights
- Service Flood Lights
- Illuminated Wind Sock



GLIDE PATH INDICATOR

SAFE GUIDANCE | FULLY REDUNDANT

- Gyro-stabilised glide path according to STANAG 1236
- Guiding the pilot from up to 5 nm distance, showing the right angle of approach
- Redundant light projection units
- 360° rotating
- Low maintenance required, equipment life-time surpasses in-service life of the vessel
- Optional day/night camera, flood light and thermal camera
- Motion stabilised and target tracking

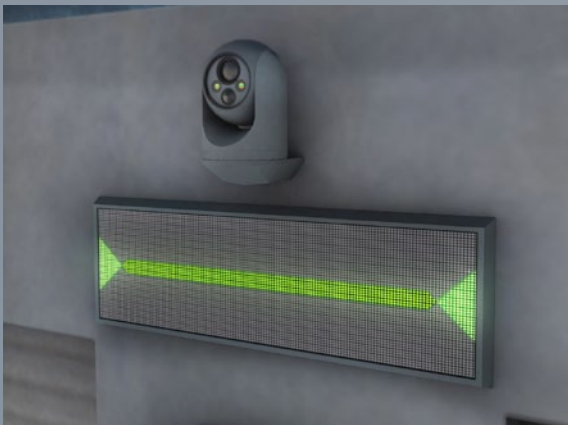




HORIZONTAL REFERENCE SYSTEM

MOTION STABILIZED ASSISTANCE | UNPARALLELED

- Providing roll motion information to the pilot
- Oscillating bar of proven design with fixed reference lights available, indicating the deck status by means of different colours
- New developed LED-matrix displaying roll motions combined with wave-off alarm
- No moving parts leading to low maintenance requirements
- Design combining durable technology with recommended landing procedures
- Perfect solutions for new buildings and refits





EXTERNAL LEAD IN/OUT
DO NOT TOUCH
IF YOU DO YOU WILL BE ELECTRICALLY SHOCKED
OR BURNED



CUSTOMIZED FLIGHT DECK LIGHTS 2.0

DESIGNED WITHOUT LIMITS | HAND CRAFTED IN HAMBURG

- Two versions: Flight deck lights on a frame as well as flush deck
- Perimeter lights and full deck illumination in one unit
- Even and clearly lighted deck, dazzle-free for the pilot
- Indication lights for various purposes, modular units
- Low maintenance, extremely long life time due to LED technology
- Certified according to military standards
- NVG compatible
- DeckFinder™ can be integrated in flight deck lights





OPTONAVAL GMBH

Dampfschiffsweg 11
21079 Hamburg
Germany

+ 49 40 60 94 49 0 - 0
+ 49 40 60 94 49 0 - 99

info@optonaval.de
www.optonaval.de

© Optonaval GmbH

