

# Lighting for mission success

Defence & Security





We provide sustainable lighting solutions that improve the performance and wellbeing of people



Sales offices in

17

countries



4

main production sites



Becoming a CO<sub>2</sub>-neutral company by

2030



~2,100

full-time employees

## Your trusted partner in the defence sector

Glamox brings over 75 years of proven experience in lighting solutions – from the softest to the harshest and most demanding environments. Through strategic acquisitions, we have built strong competence in the defence segment. With decades of delivering reliable lighting to navies, coast guards, and more than several hundred defence facilities (including barracks and military installations), we understand the high demands for durability and operational reliability required by the defence sector.

**Our quality brands within the Defence & Security segment:**



# Four ways Glamox makes the difference



### Safe and certified

Our solutions are manufactured in European NATO member countries, ensuring superior quality and full compliance with all relevant standards. Several of our factories have a proven track record of delivering under the strict requirements of military projects, meeting the demanding specifications and security expectations these projects entail.



### Secure lighting control

Our lighting control system Ethernet2DALI is compliant with IEC 62443-4-2 Security Level 2 (SL2) and developed with built-in cybersecurity. This ensures reliable, encrypted communication and safe system management, securing your lighting network against external threats.



### Quality lighting

We provide DNV- and MIL-tested products designed for reliable performance in demanding defence environments. With Human Centric Lighting (HCL) for indoor spaces and robust solutions for outdoor areas, we deliver optimal lighting that supports comfort, focus, and operational efficiency.



### Lighting that lasts decades

We deliver long-lasting lighting solutions that are easy to upgrade and maintain. With a proven track record since 1998, our products support simple modernisation through spare parts and LED retrofit kits, ensuring reliable performance for years to come.



# Lighting for all defence applications

At GlamoX, we understand the importance of meeting the highest standards of safety, security, and performance across various sectors, including defence. Our lighting solutions are designed to deliver reliable performance for both interior and exterior applications, ensuring tailored solutions for every need.

Our lighting products and systems are designed and tested to meet the highest standards for durability, efficiency, and performance. We deliver lighting solutions that ensure safety, visibility, and operational reliability across all areas of a defence facility – from air bases and naval ports to command centres, offices, barracks, and outdoor zones.

Whether it's a new build or a retrofit project, we provide a wide range of tailored solutions. Combined with intelligent lighting controls, our systems help reduce energy consumption and maintenance needs – supporting safety and operational readiness at all times.



### Industrial areas

Our most robust luminaires are DNV-certified and MIL-tested, ensuring maximum durability, reliability, and performance – even in the most extreme conditions. They're perfect for warehouses and hangars, where stability, safety, and resilience are essential.



### High-risk areas

We offer a range of Ex-certified luminaires for explosive atmospheres. Our luminaires are certified according to ATEX and IECEx and can be used in Zone 1/21 and 2/22 environments, and they are also MIL-tested for shocks, vibrations, and EMC.



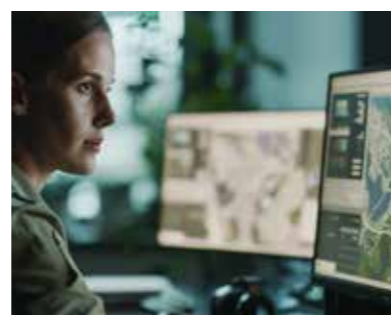
### Low-risk areas

We deliver a comprehensive range of luminaires for low-risk defence areas, including barracks, training facilities, offices, kitchens, and healthcare spaces. Our solutions ensure comfortable, safe, and energy-efficient lighting, supporting daily operations and the wellbeing of personnel.



### Outdoor areas

Choosing the right outdoor luminaires is key to achieving the perfect balance between visibility, safety, and environmental sustainability. Whether they are used in military bases or critical infrastructure, our durable and energy-efficient systems provide optimal illumination while minimising light pollution.



### Control rooms

Human Centric Lighting solutions optimise lighting in control rooms and command centres, enhancing alertness, focus, and wellbeing for operators during long shifts. By adjusting the light intensity and colour temperature, our systems support circadian rhythms, reduce fatigue, and improve decision-making.



### Helicopter Visual Landing Aid Systems (HVLAS)

LINKSrechts, part of our established portfolio, offers a flexible, modular solution tailored to meet all HVLAS requirements – suitable for all helicopter types and operational modes.



### Navy and offshore areas

We have a long history in the maritime security and naval sector, and can offer a complete and comprehensive product and system portfolio to the Global Search and Rescue, Coast Guard, and Naval markets. Our portfolio includes navigation lights, floodlights, searchlights, interior and exterior technical lighting, explosion-proof luminaires, as well as integrated system solutions for surface ships, submarines, and Helicopter Visual Landing Aid systems (HVLAS).



### Searchlight systems

We offer an extensive portfolio of searchlights that are capable of meeting very high expectations. The Luminell range includes various technologies, performance levels, and operational features to support your operations.

# Light Management Systems

## Glamox Ethernet2DALI When reliability is everything

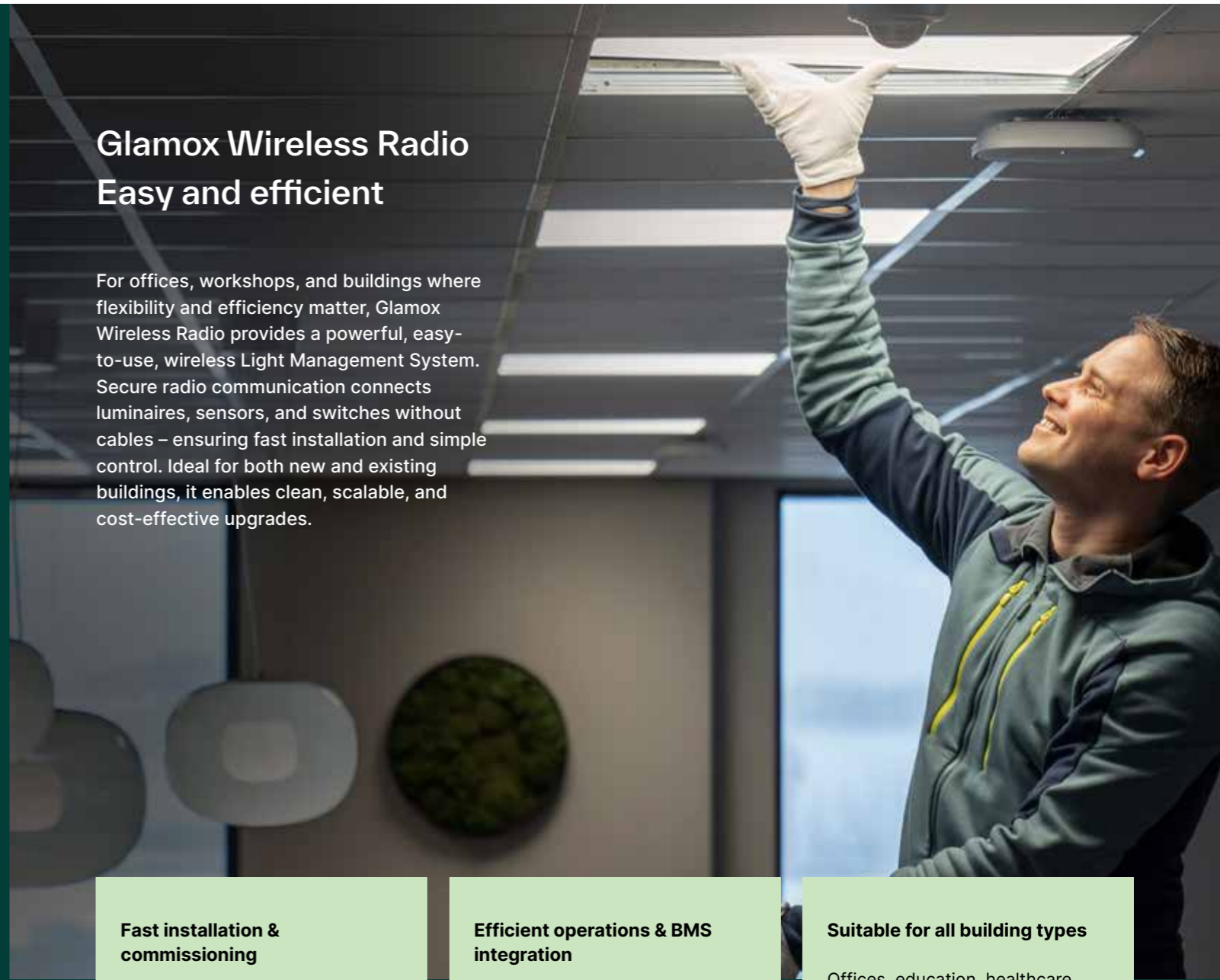
Glamox Ethernet2DALI (E2D) is an advanced, wired lighting control system designed for maximum performance in high-risk security environments, where lighting control must be reliable, resilient, and secure by design. Glamox Ethernet2DALI (E2D) is a fully wired Light Management System developed for sensitive installations where stability and cybersecurity are non-negotiable.

Ideal for control rooms, military facilities, critical infrastructure, and secure installations, E2D delivers precise lighting control.



## Glamox Wireless Radio Easy and efficient

For offices, workshops, and buildings where flexibility and efficiency matter, Glamox Wireless Radio provides a powerful, easy-to-use, wireless Light Management System. Secure radio communication connects luminaires, sensors, and switches without cables – ensuring fast installation and simple control. Ideal for both new and existing buildings, it enables clean, scalable, and cost-effective upgrades.



### Built-in cybersecurity

Encrypted communication and secure HTTPS data transfer.

### Wired-only operation

Wi-Fi and Bluetooth can be disabled to meet strict security requirements.

### Certified & trusted

Compliant with IEC 62443-4-2 Security Level 2 (SL2) and DNV-certified, E2D includes secure key storage and digitally signed, encrypted firmware.

### Fast installation & commissioning

Wireless communication and a 230 V connection enable quick setup with minimal time spent on-site.

### Efficient operations & BMS integration

Local API, no cloud dependency. This enables local control and data-driven operation.

### Suitable for all building types

Offices, education, healthcare, industry, and logistics.

### Local control & high resilience

Lighting is controlled locally via Vertex ApC, ensuring reliable operation even without cloud connectivity. This depends on internet availability.

### EU-manufactured

Manufactured in the EU, ensuring high quality, secure supply chains, and shorter delivery routes.

### Integrated security & visibility

Role-based access control and SIEM integration enable secure access and centralised monitoring.

### Scalable & flexible

Start small and expand easily. Simple adjustments, regrouping, and feature upgrades.

### Sustainable with a fast ROI

Energy savings, efficient operation, and quick payback.



# The powerful effect of light

## Human Centric Lighting (HCL)

All living beings have an “inner clock” called the circadian rhythm, and humans are no exception. In short, this means that we rise with the sun and go to sleep when it sets. The right light at the right time can influence everything from our sleep to how we feel and perform. That is why Human Centric Lighting (HCL) is beneficial for anyone working night shift in the defence and security sector.

Humans are affected by light not only on a visual level, but also on a biological one. When installing a Human Centric Lighting solution (HCL), you reinforce your circadian rhythm, enhancing your cognitive skills and sense of wellbeing. It is also used to provide the ideal visual working conditions in challenging environments.

# See clearly and work better



Warm white light  
2700 K

Neutral white light  
4000 K

Cool white light  
6500 K

By aligning indoor lighting with the biological needs of shift workers, Human Centric Lighting (HCL) contributes to enhanced alertness, reduced fatigue, and improved concentration and decision-making – especially during night shifts or extended operations.

**In mission-critical environments such as control rooms in the defence sector, personnel often work long shifts under high cognitive pressure – sometimes in spaces with no access to natural daylight. In these settings, HCL becomes more than a comfort.**

Bringing the sky indoors  
Glamox  
SkyPanels



Glamox SkyPanel is a unique ceiling lighting solution designed to simulate the appearance of a clear, open sky. It creates a powerful illusion of daylight and space, delivering physiological benefits to operators who may spend long hours in windowless or underground control rooms.

# A unique responsibility

Reducing emissions and energy consumption  
– without compromising operational readiness



“Performance that protects people, with solutions that protect the environment.”

## We recognise that the defence sector has a unique responsibility

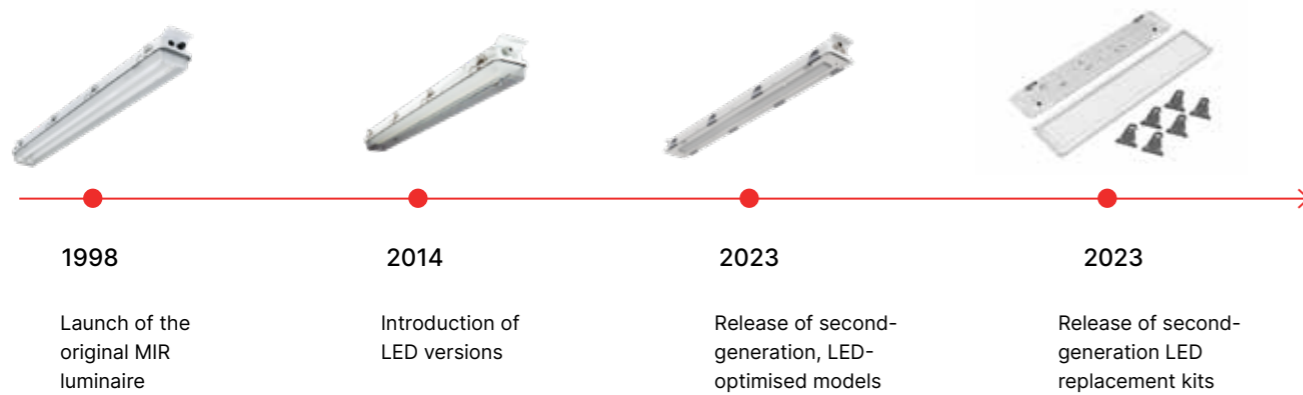
to protect people and infrastructure. With rising energy demands and growing environmental expectations, defence organisations are under increasing pressure to reduce their carbon footprint.



## Our approach to sustainable lighting includes:

- Energy savings**  
Efficient LEDs and lighting control that reduce energy use and CO<sub>2</sub> emissions.
- Long lifetimes**  
Durable products that minimise resource use and waste.
- Circularity**  
Products designed for reuse and recycling, made with recycled materials where possible.
- Local production**  
Manufacturing close to key markets to cut transport emissions.
- Easy upgrades**  
Thanks to spare parts and long-term support, we ensure lighting solutions that last for years to come.

## Tradition meets technology



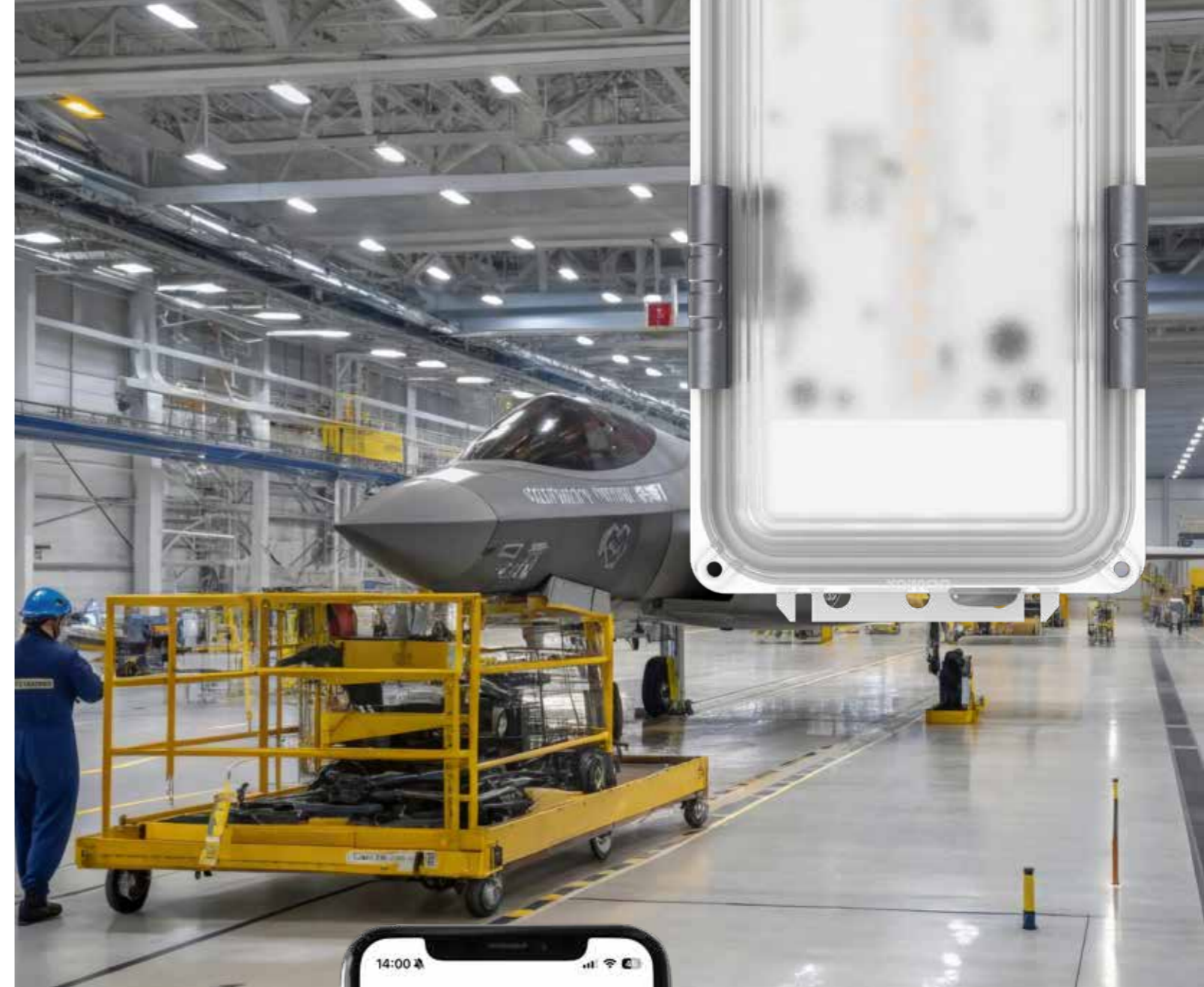
# Upgrade your lighting easily with retrofit solutions

Defence buildings are in operation 24/7, and their requirements for operational reliability, safety and the working environment are high. Many buildings still use older lighting solutions that are now in need of upgrading. With retrofit solutions, you can switch to modern LED technology quickly and efficiently – without extensive renovations.

As fluorescent light sources are being phased out, it is no longer a question of if you should switch, but when. The need is urgent, and with retrofitting, you can reduce energy consumption, extend the life of existing fixtures and create a better lighting environment for everyone working in the building.

### The advantages:

- Quick implementation with minimal downtime
- Reduced energy consumption and lower operating costs
- Better light quality in critical environments
- Compatibility with lighting control systems
- A sustainable choice that reuses existing infrastructure



### Easy replacements

With our LED kits, you can upgrade your luminaires in just minutes. Retrofitting and upgrading the lighting installation is quick and easy. It minimises downtime in buildings, whereas on ships, it can even be done while the vessel remains in operation.

# Securing every step of your solution

Glamox emergency lighting luminaires and systems deliver unwavering reliability under pressure. Built for rapid response and operational continuity, they activate instantly during power loss and maintain visibility in smoke-filled rooms or low-light conditions. They can also ensure uninterrupted operation for particularly important spaces.



## Design

We know how to plan smart. We offer a user guide, software and all the support you'll need to make sure your emergency lighting complies with all relevant rules and regulations.



## Performance

The technical parameters of the products, the variety of available options, the quality of the workmanship and the flexibility of production are parameters that are unique and represent enormous value when designing such diverse installations as those in the defence and security sector.



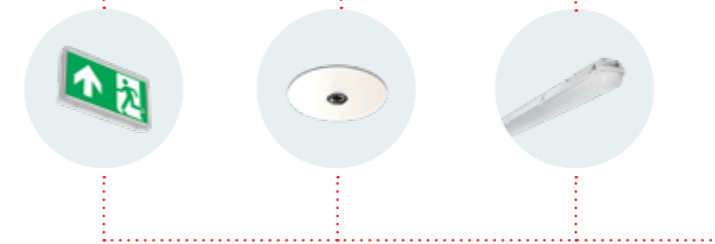
## Safety

Glamox provides multidimensional safety and security – from product design and technical parameters to long-term stability of cooperation.



## Maintenance

Smart monitoring systems automate emergency lighting installation testing – no more time-consuming manual inspections. Standardised tests and reports help save time and money on maintenance.



Emergency lighting ensures safe evacuation and operational control during power outages, fires, or other critical incidents. It activates instantly, guiding personnel through smoke-filled corridors, confined spaces, and unfamiliar layouts.

Exit signs and escape route lighting are vital components. They mark safe exits and illuminate paths to safety. In military facilities such as bunkers, command posts, and

barracks, these systems uphold readiness, protect lives, and maintain structure when standard lighting fails – also for those unfamiliar with the area.

Scan to explore our emergency luminaires





# HMS Queen Elizabeth and HMS Prince of Wales

HMS Queen Elizabeth and HMS Prince of Wales are aircraft carriers built for Britain's Royal Navy.

HMS Queen Elizabeth and HMS Prince of Wales are the largest surface warships ever constructed for the Royal Navy. They are 280 m long and 70 m wide – over 470 London buses can park on the flight decks. Both carriers are built in sections across the UK and shipped to Rosyth for assembly.

For these prestigious projects, Glamox has delivered 228 pcs. of FL60N floodlights in total. The FL60N floodlights met the demanding requirements of the Royal Navy and were delivered with success to their contractor, BAE Systems in Glasgow.

“Glamox always delivered material and documentation on time and there were no issues with the product whatsoever” says the Glamox contract manager at BAE Systems in Glasgow.





## Frigate F361, Iver Huitfeldt

Glamox presents our advanced searchlight system – the R60. This is the result of extensive engineering and testing, and sets a new level for intuitive control interfaces, features, and flexible solutions for our customers.

The R60 is available in a wide range of halogen and xenon lamp searchlights, and due to its aluminium design and heat management, it is capable of achieving extensive run times. The searchlight offers an adjustable beam and position indicator for both vertical and horizontal movement.

The strong motor function makes the R60 well-equipped to handle all kinds of loads and weather conditions. It is capable of operating in temperatures as low as -50°C. The R60 has a touchscreen interface with all functions included as standard, and it is open to user-defined system design, functions, and integration, in accordance to customer-specific requirements.

The first R60 was sold in the summer of 2012. The Royal Danish Navy attended product demonstrations in Norway. Searchlights are of great value in the search for and fight against pirates, not only in the Gulf of Aden, but also off the west coast of Africa, where pirate attacks are increasing. The searchlights have been involved in various daytime operations and are an active part of nighttime operations. XS 3000 R60 was installed on the Frigate F361, Iver Huitfeldt in the summer of 2012.

In the future, the Danish Navy is also considering incorporating the searchlight into the ship's radar system.

# Contact us

Do you have questions about lighting solutions for military facilities? Our team is ready to support you with reliable and safe options tailored to defence needs.



Follow us on social media!



[glamox.com](http://glamox.com)

