



**Kingfisher
Lighting**

High Mast Lighting: A guide to our 5-step system



We understand high mast lighting

High mast lighting is a specialist area requiring skill and experience in the design, installation, commissioning and after care of the system. Knowing how to choose the right team to work on your high mast project can be difficult so we have created this guide to help.

We understand that everyone with high mast lighting has a duty to ensure that system is both safe and efficient. We can combine easy-access systems, with state-of-the-art LED flood lighting to ensure minimum energy use and maximum ROI.

We have been designing and installing our high mast systems across the country over the last 25 years. You can see our products in a variety of places from sports facilities, to airports, ports and road networks.

Our 5-step system gives you an overview of everything we do here at Kingfisher Lighting. You can choose to have the complete solution, or select only those parts of our service you need.

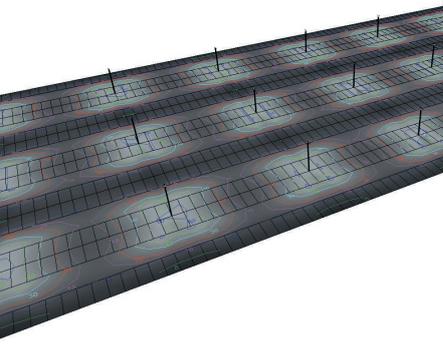
Let's start off by having a conversation about your project, we can come out and visit your site, complete an audit and make recommendations from there.

Call us on 01623 415900 or email sales@kingfisherlighting.com



1

Audit & Design



Understanding your project is crucial and every high mast scheme will have a custom design. Lighting large areas to enable safe and efficient transportation of goods has different challenges to lighting a motorway junction, or a sports pitch.

We will visit your site to enable us to give you the best technical, structural and lighting design possible – choosing the perfect combination of mast system, lighting and controls.

We design to the industry standards and in some cases have even helped write them. Our team of lighting designers are all LIA trained and design using the latest 2D & 3D software.

Calculations on energy consumption and light output will all be provided too so you can easily see the benefits of the new high mast scheme. Better still, this service of audit and design is free for our customers.

2

The Mast

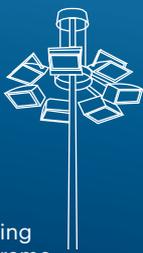
Whilst high mast lighting is technical it shouldn't be over-complicated. Here at Kingfisher we will specify the correct mast for your site and budget. There are three basic types; fixed, hinged and lowering head frame.

Fixed masts are exactly that – fixed. Teamed with efficient lighting they offer a great way to light large areas.

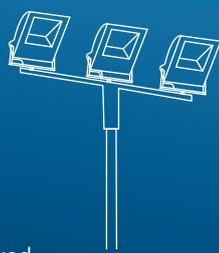
Hinged masts are popular on sports facilities. They hinge in the middle, or at the base allowing the lighting to be accessed at ground level – however they do need clearance in the hinged position so they aren't always suitable for sites that are tight on space.

Lowering headframe masts have lighting fixed to a frame which is lowered down the length of the mast using a powered winch & pulley system. These are ideal systems for working safely at ground level and they can be used even in the most space restricted areas.

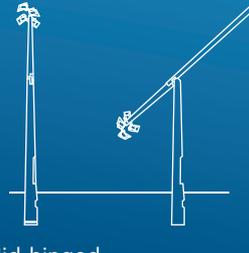
We will guide you through the mast selection and we can also offer a range of extras like warning lights, safety barriers and custom paint finishes.



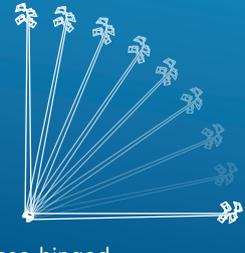
Lowering Headframe



Fixed



Mid-hinged



Base-hinged

3 Lighting & Controls

We have a range of lighting options depending on what you need to achieve. All of our lighting ensures low light pollution and many can be dimmed for additional energy savings. LED technology is now both viable and affordable for high mast applications too. We can offer our own lighting controls or work with any of the recognised CMS brands on the market.

Our HID floodlights are efficient and powerful and can be mounted up to 40m providing crisp white light for your project. Scorpius is the king of sports lighting and can be combined with hood accessories if needed. Carina is suitable for a wide range of area and security lighting. Both come with asymmetric optics for a great lighting distribution and tool-free access for easy maintenance.



Scorpius



Carina

Galileo



Galileo

Italo Flood



Our latest LED high mast lighting

LED lighting provides a number of benefits such as: efficiencies and energy savings – giving you a better return on your scheme; instant white light for improved security and better visual recognition of people, colours and movement; longer lifetimes and reduced maintenance which means that the total cost of ownership becomes more attractive.

Galileo – a transformational LED floodlight

Galileo is our new LED floodlight. Extensive R&D has resulted in a game-changing product that can provide both the power and the efficiency for use in high mast applications.

It offers high levels of energy efficiency coupled with a powerful light output. It can be controlled in a number of ways including dimming and zoning to deliver even more energy savings. The reflector system not only gives precise light output, it also reduces glare and light pollution too. The modular design allows us to build up the exact lighting solution to match your requirements.

Italo Flood – street lighting looks, high mast performance

The latest addition to the high-performance Italo range means, for the first time, you can match your street and amenity lighting with your high mast lighting. Thousands of Italos are already installed around the world – it is undisputed, proven LED technology.

A powerful lumen output is coupled with the patented Comfort Light optic which gives less glare than a lens system, it also lasts longer and is easier to maintain.

The aesthetic is modern and attractive and can be wall mounted for applications such as loading bays, as well as being mounted on a high mast for area lighting. To find out more about the full Italo range visit our website.

4 Installation & commissioning

Our experienced high mast installation team work on all kinds of projects and sites. We are HERS registered which means we can work on all aspects of street/highways lighting and we have all the pre-requisite health & safety accreditations including airside insurance and public liability insurance, so you can have peace of mind when we are on site.

We can fully commission your lighting scheme too and provide lux level reports to ensure reality matches the design and that your lighting is ready to go.

We can work alongside your other contractors or run our own project. We have experienced many situations on site, so we are able to overcome most difficulties and deliver on time to budget.



5 Maintenance

Taking care of your current high mast lighting, or planning a maintenance programme for your new system is vital to ensure both the performance and health & safety of your lighting. High masts can often be left to do their job for years at a time, but we know that regular maintenance stops long-term problems.

Our fully trained and certified team can maintain and repair all kinds of high mast lighting, both our own and also non-Kingfisher systems.

We offer three levels of maintenance:

Level 1

- Check the winch and fixings
- Lower the carriage ring to check rope suspension points and suspension belts
- Repair of lanterns and control gear
- Check base mounted electrics
- Raise the carriage unit and leave the mast fully lit

Level 2

- Level 1 checks +
- Use of cherry picker to visually check the head and pulleys, the wire ropes over the full length and the mast structure itself
- Visual check of foundations, foundation nuts and protective material

Level 3

- Level 1 & 2 check +
- Structural assessment
- Ultrasonic testing
- Torque pullout tests
- NDT if required

