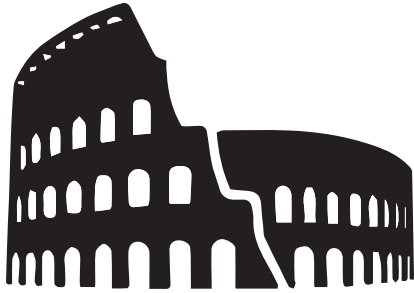


**Q-AVIATION**  
*"Helideck Solutions"*

# About Q-Aviation

"Q-Aviation B.V. is manufacturer of Helideck and Heliport Lighting Equipment, Portable Airfield and Heliport Solutions and Obstruction Lighting systems. The Q stands for quality, which is why we value our Q in all aspects of our company. Our employees are very driven in order to achieve the highest quality that matches the market's standards."



## Meeting the market's demands

*"Founded in 2016. Q-Aviation is the new standard for Aviation products."*

Nowadays the aviation sector is becoming more demanding. This means that companies need to be very flexible and adaptable to every situation. At Q-Aviation we believe that a long-term business-to-business relationship is required for this to be possible.

We believe that when a customer has a complete insight in our current stock database, datasheets and delivery terms, it would make responding to any questions much easier..

The need for datasheets and the ability to compare products over the internet has allowed for drastic changes in the right direction. We believe that when we offer our customers transparency, we can build a long-term relationship.



## Mission Statement

*"Q for Quality"*

We at Q-Aviation believe that every hour counts. That is why we would like to pave the way for you in making an order as smooth as possible.

Quality is an aspect that has been adopted into the Q-working principles. Quality to us means:

- Working according to the regulation of ISO9001:2015.
- Delivering products in compliance with applicable regulations.
- Delivering tested products that include testing report.
- Delivering in time.
- Automating our system to tackle human error.
- Motivating employees to improve the production process.
- Transparency towards all customers.

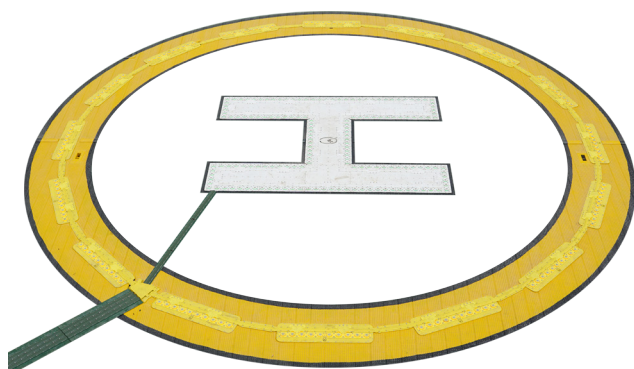


# Helideck Solutions

|  |    |
|--|----|
| Q-TDPM / Circle and H- Lighting System | 4  |
| Q-HAPI                                 | 6  |
| Q-PERIMETER LIGHTS                     | 8  |
| Q-FLOODLIGHTS                          | 9  |
| Q-STATULIGHT                           | 10 |
| Q-WIND DIRECTION INDICATOR             | 11 |
| Q-OBSTRUCTION LIGHT                    | 12 |
| Q-PRODUCT CONFIGURATOR                 | 13 |
| Q-CONTROL SERIES                       | 14 |

# Q-TDPM SYSTEMS

## Circle and "H" Lighting system



Circle & H Lighting for helideck - TouchDown Positioning Marking - (TD/PM) and Lit Heliport Identification Marking (H) is superimposed on the yellow painted marking. It comprises of a concentric circle of at least 16 discrete lighting segments. The Lighting units have a width of 100mm. A single circle is positioned at the mean radius of the painted circle of the Helideck.

The circle lighting segments provide coverage between 50% and 75% of the circumference as stated in CAP437, and are equidistantly placed with the gaps between them not less than 0.5 m. The Lighting units are grip-coated yellow.

The lighting segments are connected by explosion proof cable connectors. The Cable Ducting System is mounted on the preassembled cable ducting brackets that are included on every system or parts of the Q-TDPM System. The SS316 material of the Q-Cable Ducting System provides resistance of load and impacts and maintains the safety of the cable and passengers.

The Q-TDPM is a complete system comprising of Circle lighting and "H" lighting units, universal mounting plates, on-deck cable ducting system, Q-TDPM cable tray Junctionbox and Q-TDPM Control system. The Q-TDPM Lighting units are connected to each other using hazardous area approved connectors. This makes the Q-TDPM system easy to install and a complete solution for Helidecks.

The universal mounting plates offer an easy installation process where they can be mounted onto the helideck using various mounting options such as; Rivet nuts (for aluminium platforms), HILTI Studs (for steel platforms), welding or gluing.

Q-Aviation provides installation and commissioning supervision where needed.

| Specifications       | Q-EX TDPM   | Q-TDPM  |
|----------------------|---|---|
| Application          | Helideck  | Helideck  |
| Hazardous area       | II 2 G Ex mb op is IIC T5 Gb  | Safe Area   |
| Lightsource          | LED , steady burning  | LED, steady burning   |
| Lightcolor           | H-Sytem: Green 530 nm<br>C-Sytem: Yellow 590 nm                             | H-Sytem: Green 530 nm<br>C-Sytem: Yellow 590 nm                             |
| Lightintensity       | as per CAP437   | as per CAP437   |
| Verticalbeam profile | as per CAP437   | as per CAP437   |
| Colour chromaticity  | 530 nm and 590 nm   | 530 nm and 590 nm   |
| Enclosure            | H-Unit:Aluminium, white grip coated<br>C-Unit:Aluminium, yellow grip coated | H-Unit:Aluminium, white grip coated<br>C-Unit:Aluminium, yellow grip coated |
| Mounting             | Riveted / Bolted / HILTI / Glued  | Riveted / Bolted / HILTI / Glued  |
| Input voltage        | From Controller   | From Controller   |
| Ambient temperature  | -25°C to +60°C  | -25°C to +60°C  |
| In compliance with   | CAP437  | CAP437  |
| External earthing    | up to 4mm2  | up to 4mm2  |
| Power consumption    | 200 Watt  | 200 Watt  |
| Life expectancy      | 100.000+ hours  | 100.000+ hours  |
| Ingress protection   | IP69  | IP69  |
| Dimension            | As per D-Value  | As per D-Value  |
| Articlecode          | Q64RI01   | Q64RI03   |







# Q-HAPI SYSTEMS

## Helicopter Approach Path Indicator Lighting System

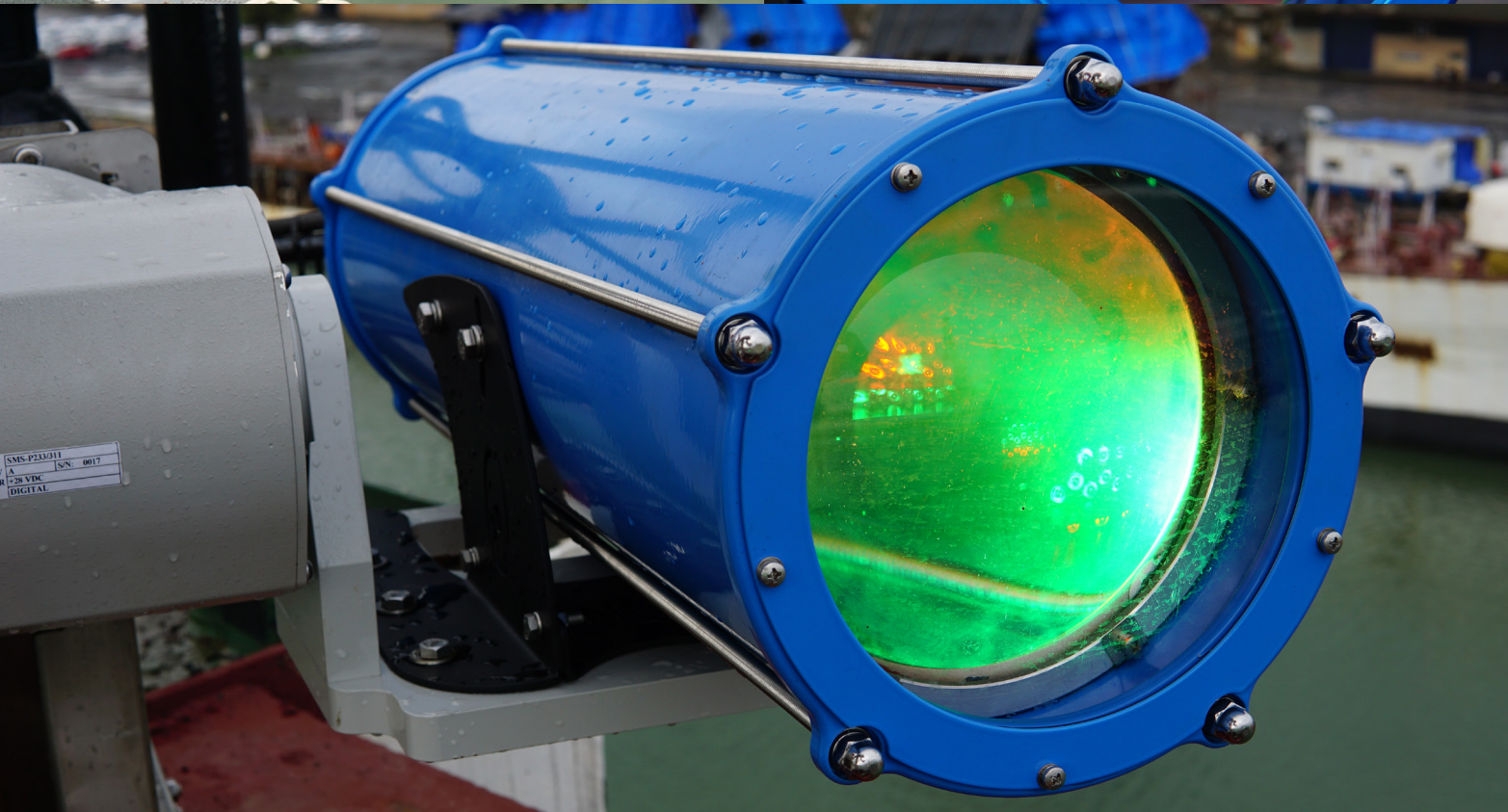


The Q-HAPI system consists of a single lighting unit that provides a visual indication of the correct approaching path of the helicopter. In compliance with ICAO requirements, the Q-HAPI System is located adjacent to the nominal aiming point and aligned with the preferred approach directions. The angle of elevations setting of the Q-HAPI System is easy to adjust by the build-in monitor showing the current angle. The Q-HAPI System is below 25 cm and it is therefore approved for all helidecks installations, forming no obstruction for the helicopter. Each flight approach path is required to have a HAPI system.

The Q-Stabalization Platform is designed primarily for the Q-HAPI system. it stabilizes on the Bank (X) and Elevation (Y) axis so that the mounting arm with its Q-HAPI System will always stay level, regardless of the motions of the vessel. The gyro-stabilized platforms are built around a rugged pan and tilt mechanism. This high resolution digital system uses the best wide bandwidth, low noise, solid-state gyros. The whole system is user-configurable.

| Specifications       | Q-EX HAPI                       | Q-HAPI                          | Q-Stabalization Platform    |
|----------------------|---------------------------------|---------------------------------|-----------------------------|
| Application          | Helideck                        | Helideck                        | Helideck / Vessel           |
| Hazardous area       | II 2 G Ex mb op is IIC T3 Gb    | Safe Area                       | Safe Area                   |
| Lightsource          | LED , steady burning + flashing | LED , steady burning + flashing | n.a.                        |
| Lightcolor           | Green 530nm and Red 630nm       | Green 530nm and Red 630nm       | n.a.                        |
| Lightintensity       | 9000 cd                         | 9000 cd                         | n.a.                        |
| Verticalbeam profile | as per ICAO                     | as per ICAO                     | n.a.                        |
| Colour chromaticity  | 530 nm and 630 nm               | 530 nm and 630 nm               | n.a.                        |
| Enclosure            | Aluminium, Powder coated        | Aluminium, Powder coated        | Carbon Steel, Powder coated |
| Mounting             | Rigid, 8x M8                    | Rigid, 8x M8                    | Rigid, 12x M10              |
| Input voltage        | From Controller                 | From Controller                 | From Controller             |
| Ambient temperature  | -25°C to +60°C                  | -25°C to +60°C                  | -25°C to +60°C              |
| In compliance with   | ICAO annex 14 vol. II           | ICAO annex 14 vol. II           | CAP437                      |
| External earthing    | up to 4mm2                      | up to 4mm2                      | up to 4mm2                  |
| Power consumption    | 80 Watt                         | 80 Watt                         | 250 Watt                    |
| Life expectancy      | 100.000+ hours                  | 100.000+ hours                  | 50.000+ hours               |
| Ingress protection   | IP 66                           | IP 66                           | IP 66                       |
| Dimension            | 688 x 339 x 249 mm (LxWxH)      | 688 x 339 x 249 mm (LxWxH)      | 226 x 401 x 185 mm (LxWxH)  |
| Articlecode          | Q72RI01                         | Q72RI03                         | Q72SP03                     |







# Q-PERIMETER LIGHTS

## Perimeter Lighting System



The Q-Perimeter Light is the 50 cd perimeter light for all offshore facilities. In compliance with the CAP437 regulation, the Q-Perimeter light is the perfect perimeter light. The Q-Perimeter Light is available in several configurations such as 100-240 Vac 50-60 Hz and 24-48 Vdc.

Perimeter lights are spaced at intervals of not more than 3 meter and should be fitted around the perimeter of the landing area of the helideck. For any helideck where the D-value is greater than 16.00 m, the perimeter lights should not exceed a height of 25 cm above the surface of the helideck.

The Q-Flushmount Perimeter Light is the solution for all offshore facilities in particular where the D-value is smaller than 16.00 m. The Q-Flushmount Perimeter Light is in compliance with the CAP437 regulations. The Q-Flushmount Perimeter Light is available in several configurations such as 100-240 Vac 50-60 Hz and 24-48 Vdc.

Both Flushmount and Elevated Perimeter Light can be purchased as a complete set with system controller that can adjust the intensities according to the customer's specifications.

| Specifications       | Q-EX Perimeter Light          | Q-Perimeter Light             | Q-Flushmount Perimeter         |
|----------------------|-------------------------------|-------------------------------|--------------------------------|
| Application          | Helideck                      | Helideck                      | Helideck                       |
| Hazardous area       | II 2 G Ex db op is IIC T6 Gb  | Safe Area                     | Safe Area                      |
| Lightsource          | LED                           | LED                           | LED                            |
| Lightcolor           | Green, 530 nm                 | Green, 530 nm                 | Green, 530 nm                  |
| Lightintensity       | 30 cd                         | 50 cd                         | 50 cd                          |
| Verticalbeam profile | as per CAP437                 | as per CAP437                 | as per CAP437                  |
| Colour chromaticity  | 530 nm                        | 530 nm                        | 530 nm                         |
| Enclosure            | Aluminium, Powder coated      | Aluminium, Powder coated      | Aluminium, Powder coated       |
| Mounting             | Rigid, 4x M8                  | Rigid, 4x M8                  | Flushmount                     |
| Input voltage        | 100-240 Vac 50-60 Hz / 24 Vdc | 100-240 Vac 50-60 Hz / 24 Vdc | 100-240 Vac 50-60 Hz / 24 Vdc  |
| Ambient temperature  | -25°C to +60°C                | -25°C to +60°C                | -25°C to +60°C                 |
| In compliance with   | CAP437                        | CAP437                        | CAP437                         |
| External earthing    | up to 4mm2                    | up to 4mm2                    | up to 4mm2                     |
| Power consumption    | 6 Watt                        | 6 Watt                        | 8 Watt                         |
| Life expectancy      | 100.000+ hours                | 100.000+ hours                | 100.000+ hours                 |
| Ingress protection   | IP 67                         | IP 67                         | IP67                           |
| Dimension            | 183 x 183 x 150 mm (LxWxH)    | 183 x 183 x 150 mm (LxWxH)    | 20 x 20 x 8,8 cm ( L x W x H ) |
| Articlecode          | Q10RI01                       | Q10RI03                       | Q10FM03                        |



# Q-FLOODLIGHTS

## Surface illuminating Lighting System



The Q-Floodlight is an offshore compliance 5.000 cd floodlight for Helideck surface illumination. The Q-Floodlight has special optics which prevents glaring and dazzling of the pilot. The Q-Floodlight is available in several configurations such as 100-240 Vac 50-60 Hz and 24-48 Vdc.

The floodlighting should be arranged so as not to dazzle the pilot and, if elevated and located off the landing area clear of the Limited Obstacle Sector (LOS), the system does not present an obstacle to helicopters landing and taking off from the helideck. All floodlights should be capable of being switched on and off at the pilot's request. Setting up of lights should be undertaken with care to ensure that the issues of adequate illumination and glare are properly addressed and regularly checked. For some decks it may be beneficial to improve depth perception by floodlighting the main structure or 'legs' of the platform.

| Specifications       | Q-EX Floodlight               | Q-Floodlight                  |
|----------------------|-------------------------------|-------------------------------|
| Application          | Helideck                      | Helideck                      |
| Hazardous area       | II 2 G Ex db op is IIC T6 Gb  | Safe Area                     |
| Lightsource          | LED                           | LED                           |
| Lightcolor           | White, 5.700 K                | White, 5.700 K                |
| Lightintensity       | 600 lm                        | 600 lm                        |
| Verticalbeam profile | as per CAP437                 | as per CAP437                 |
| Colour chromaticity  | 5.700 K                       | 5.700 K                       |
| Enclosure            | Aluminium, Powder coated      | Aluminium, Powder coated      |
| Mounting             | Rigid, 4x M8                  | Rigid                         |
| Input voltage        | 100-240 Vac 50-60 Hz / 24 Vdc | 100-240 Vac 50-60 Hz / 24 Vdc |
| Ambient temperature  | -25°C to +60°C                | -25°C to +60°C                |
| In compliance with   | CAP437                        | CAP437                        |
| External earthing    | up to 4mm <sup>2</sup>        | up to 4mm <sup>2</sup>        |
| Power consumption    | 7 Watt                        | 7 Watt                        |
| Life expectancy      | 100.000+ hours                | 100.000+ hours                |
| Ingress protection   | IP 67                         | IP 67                         |
| Dimension            | 255 x 159 x 168 mm (LxWxH)    | 309 x 155 x 160 mm (LxWxH)    |
| Articlecode          | Q12RI01                       | Q12RI03                       |

# Q-STATUS LIGHT SYSTEM

*Status Light System / Helicopter prohibited landing lighting system*



The Q-Status Light System has 750 cd and flashes 120 flashes per minute. The status light system indicates when a helicopter is prohibited to land on your helideck. The status light system is easy to maintain and offers various features such as a gas sensor input and different intensities that can be controlled remotely. The complete assembly consists of one lighting unit and one system controller. Repeater lights can be purchased optionally.

A visual warning system should be installed if a condition can exist on an installation which may be hazardous for the helicopter or its occupants. The Status Light System is a flashing red master light with a flashing red slave light, visible to the pilot from any direction of approach and on any landing heading. The aeronautical meaning of a flashing red light is either "do not land, aerodrome not available for landing" or "move clear of landing area". The system can automatically be initiated at the appropriate hazard level (e.g. impending gas release) as well as being capable of manual activation by the HLO (Helicopter Landing Officer). It should be visible at a range in excess of the distance at which the helicopter may be endangered or may be commencing a visual approach.

| Specifications       | Q-Status Light               | Q-Repeater Light             |
|----------------------|------------------------------|------------------------------|
| Application          | Helideck                     | Helideck                     |
| Hazardous area       | II 2 G Ex db op is IIC T6 Gb | II 2 G Ex db op is IIC T6 Gb |
| Lightsource          | LED, Flashing 120 FPM        | LED, Flashing 120 FPM        |
| Lightcolor           | Red, 630 nm                  | Red, 630 nm                  |
| Lightintensity       | 750 cd                       | 60 cd                        |
| Verticalbeam profile | as per CAP437                | as per CAP437                |
| Colour chromaticity  | 630 nm                       | 630 nm                       |
| Enclosure            | Aluminium, Powder coated     | Aluminium, Powder coated     |
| Mounting             | Rigid, 4x M8                 | Rigid, 4x M8                 |
| Input voltage        | From Controller              | From Controller              |
| Ambient temperature  | -25°C to +60°C               | -25°C to +60°C               |
| In compliance with   | CAP437                       | CAP437                       |
| External earthing    | up to 4mm2                   | up to 4mm2                   |
| Power consumption    | 10 Watt                      | 6 Watt                       |
| Life expectancy      | 100.000+ hours               | 100.000+ hours               |
| Ingress protection   | IP 67                        | IP 67                        |
| Dimension            | 183 x 183 x 150 mm (LxWxH)   | 183 x 183 x 150 mm (LxWxH)   |
| Articlecode          | Q14RI01                      | Q14RR01                      |

# Q-WDI INTERNALLY LIGHTED

*Internally lighted Wind Direction Indicator (WDI) lighting system*



The Q-WDI Internally lighted is a full LED wind direction indicator solution. The complete SS316 exterior and 360 degree rotatable top unit makes this wind direction indicator suitable for all Offshore applications. The Q-WDI is fitted with an optical head that contains no rotating electrical parts.

The Q-WDI Internally Lighted does not cause dazzling of pilots because the Q-WDI illuminates the windsock internally. The assembly is fitted with an obstruction light to easily spot this potential obstruction at night.

| Specifications       | Q-EX WDI Internally lit.         | Q-WDI Internally lit.            |
|----------------------|----------------------------------|----------------------------------|
| Application          | Helideck                         | Helideck                         |
| Hazardous area       | II 2 G Ex d IIC T5               | Safe Area                        |
| Lightsource          | LED                              | LED                              |
| Lightcolor           | White, 5.700 K                   | White, 5.700 K                   |
| Lightintensity       | as per ICAO                      | as per ICAO                      |
| Verticalbeam profile | n.a.                             | n.a.                             |
| Colour chromaticity  | 5.700 K                          | 5.700 K                          |
| Enclosure            | SS316                            | SS316                            |
| Mounting             | SS316 Flange, DN65, 4x M16       | SS316 Flange, DN65, 4x M16       |
| Input voltage        | 100-240 Vac 50-60 Hz or 24 Vdc   | 100-240 Vac 50-60 Hz or 24 Vdc   |
| Ambient temperature  | -25°C to +60°C                   | -25°C to +60°C                   |
| In compliance with   | CAP437 and ICAO annex 14 vol. II | CAP437 and ICAO annex 14 vol. II |
| External earthing    | up to 4mm <sup>2</sup>           | up to 4mm <sup>2</sup>           |
| Power consumption    | 35 Watt                          | 35 Watt                          |
| Life expectancy      | 100.000+ hours                   | 100.000+ hours                   |
| Ingress protection   | IP 66                            | IP 66                            |
| Dimension            | >1500 x 320 x 800 mm (LxWxH)     | >1500 x 320 x 800 mm (LxWxH)     |
| Articlecode          | Q23EL91                          | Q23IL91                          |

# Q-OBSTRUCTION LIGHTS

*Obstruction Lighting system / Obstruction indicator*



The Q-Obstruction Light Low Intensity 10 cd and 200 cd are CAP437 compliance Obstruction light for all offshore facilities. The Obstruction Lights are available in the configurations 100-240 Vac 50-60 Hz and 24-48 Vdc.

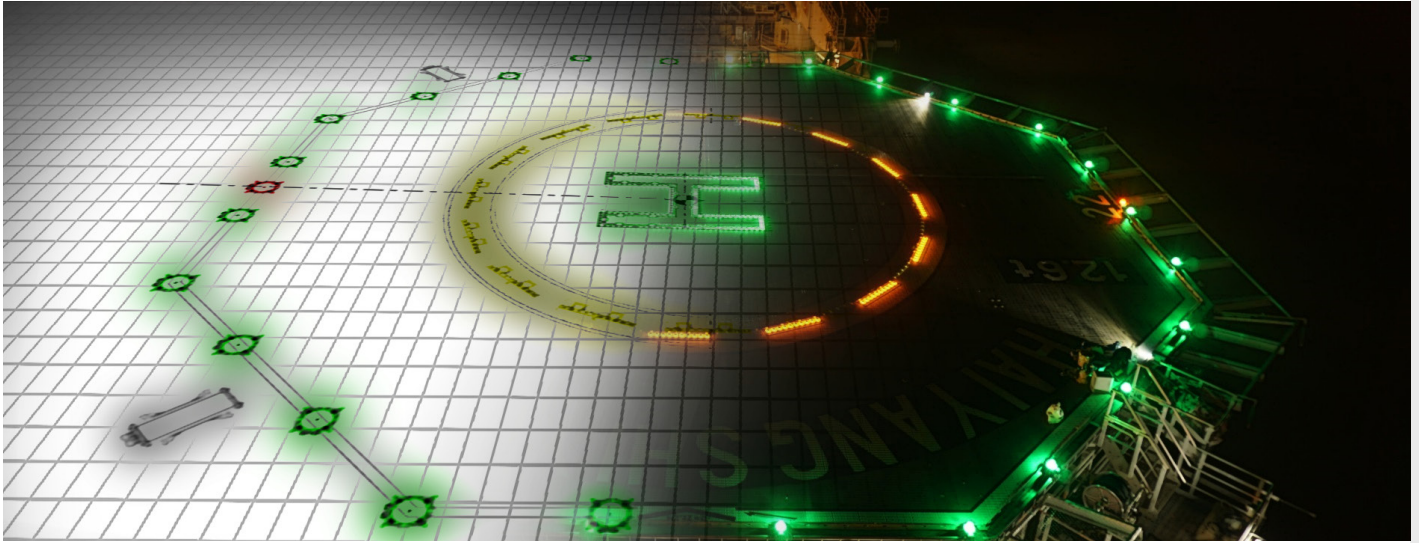
Omnidirectional low intensity steady red obstruction lights are conforming to the specifications for low intensity obstacle lights (having a minimum intensity of 10 cd for angles of elevation between 0 degrees and 30 degrees) should be fitted at suitable locations to provide the helicopter pilot with visual information on the proximity and height of objects, which are higher than the landing area and which are close to it or to the LOS boundary. This should apply, in particular, to all crane booms on the installation.

| Specifications       | Q-Obstruction Light            | Q-200cd. Obstruction Light     |
|----------------------|--------------------------------|--------------------------------|
| Application          | Helideck                       | Helideck                       |
| Hazardous area       | II 2 G Ex db op is IIC T6 Gb   | II 2 G Ex db op is IIC T6 Gb   |
| Lightsource          | LED , steady burning           | LED , steady burning           |
| Lightcolor           | Red, 630 nm                    | Red, 630 nm                    |
| Lightintensity       | 10 cd                          | 200 cd                         |
| Verticalbeam profile | as per CAP168                  | as per CAP168                  |
| Colour chromaticity  | 630 nm                         | 630 nm                         |
| Enclosure            | Aluminium, Powder coated       | Aluminium, Powder coated       |
| Mounting             | Rigid, 4x M8                   | Rigid, 4x M8                   |
| Input voltage        | 100-240 Vac 50-60 Hz or 24 Vdc | 100-240 Vac 50-60 Hz or 24 Vdc |
| Ambient temperature  | -25°C to +60°C                 | -25°C to +60°C                 |
| In compliance with   | CAP437 and CAP168              | CAP437 and CAP168              |
| External earthing    | up to 4mm <sup>2</sup>         | up to 4mm <sup>2</sup>         |
| Power consumption    | 6 Watt                         | 10 Watt                        |
| Life expectancy      | 100.000 hours                  | 100.000 hours                  |
| Ingress protection   | IP 67                          | IP 67                          |
| Dimension            | 183 x 183 x 150 mm (LxWxH)     | 183 x 183 x 150 mm (LxWxH)     |
| Articlecode          | Q80RI01                        | Q83RI01                        |



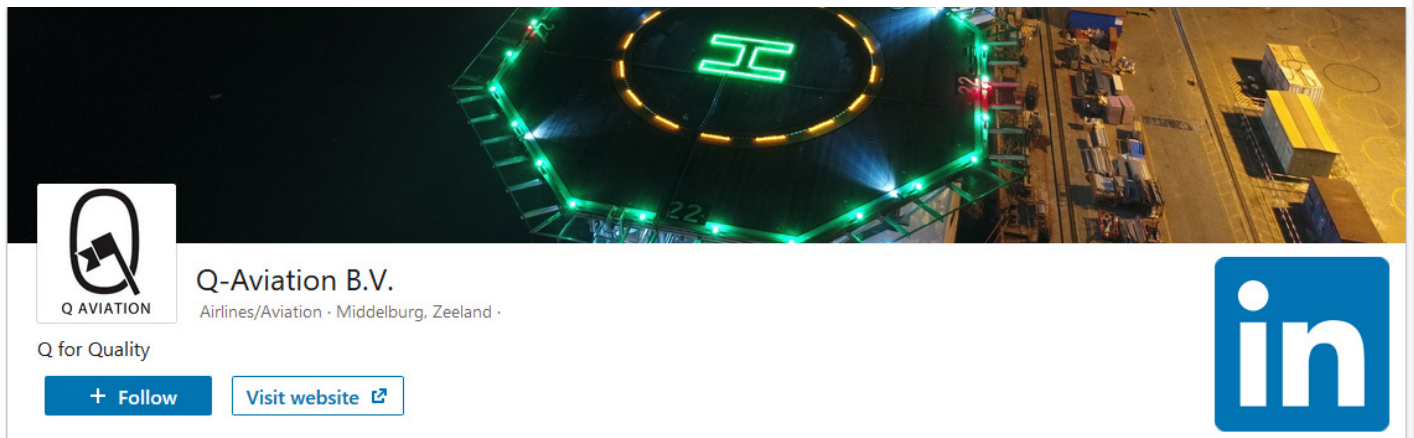
# Q-ONLINE HELIDECK CALCULATOR

*Online helideck lighting calculation system*



For an easy way to determine the complete lighting package for any helideck, go to the Q-Aviation website for an interactive product calculation tool and request for quotation.

[www.qaviation.nl/calculator](http://www.qaviation.nl/calculator)



Stay up to date of all news and exhibitions by connecting to Q-Aviation on LinkedIn.

# Q-CONTROL SYSTEMS

## *Helideck Lighting Control systems*

Controlling Q-Aviation Lighting Equipment can be done through several options. Different helideck lighting systems require different controllers. Q-Aviation offers the Q-Control WMX series for offshore lighting control.

The WMX series always has 7 AC lighting groups that can be controlled by switches on the doorpanel of the Control Cabinet.

When the installation has a Q-TDPM System, Q-HAPI System and/or Status Light System, the Q-Control WMX Series can be chosen accordingly.

Because of the modular design, any upgrades can be made in an after sales stage. This makes the Q-Control WMX series the perfect control system for any offshore helideck.



| Specifications               | Q-Control WMX1             | Q-Control WMX2   | Q-Control WMX3   |
|------------------------------|----------------------------|--|--|
| Application                  | Control Room               | Control Room   | Control Room   |
| Hazardous area               | Safe Area                  | Safe Area  | Safe Area  |
| Typical System Configuration | 7 x AC switchable group    | 7 x AC switchable group<br>1 x TDPM or Status Light System | 7 x AC switchable group<br>1 x TDPM<br>1 x Status Light System |
| Enclosure                    | Steel, Powder coated       | Steel, Powder coated                                       | Steel, Powder coated   |
| Mounting                     | WallMount, 4x M8           | WallMount, 4x M8   | WallMount, 4x M8   |
| Input voltage                | 100-240 Vac 50-60 Hz       | 100-240 Vac 50-60 Hz                                       | 100-240 Vac 50-60 Hz   |
| Ambient temperature          | -25°C to +60°C             | -25°C to +60°C   | -25°C to +60°C   |
| Cable Sizes                  | 11 - 19 mm Outer Diameter  | 11 - 19 mm Outer Diameter                                  | 11 - 19 mm Outer Diameter                                      |
| Ingress protection           | IP 66                      | IP 66  | IP 66  |
| Dimension                    | 600 x 600 x 210 mm (LxWxH) | 600 x 600 x 210 mm (LxWxH)                                 | 600 x 600 x 210 mm (LxWxH)                                     |
| Articlecode                  | Q31WMX1                    | Q31WMX2  | Q31WMX3  |

# Q-CONTROL CABINETS

## *Helideck Lighting Control systems*

A visual warning system should be installed if a condition can exist on an installation which may be hazardous for the helicopter or its occupants. The system (Status Lights) should be a flashing red light (or lights), visible to the pilot from any direction of approach and on any landing heading. The aeronautical meaning of a flashing red light is either "do not land, aerodrome not available for landing" or "move clear of landing area". The system should be automatically initiated at the appropriate hazard level (e.g. impending gas release) as well as being capable of manual activation by the HLO.

The Q-Controller For HAPI System is needed to control the Q-HAPI. The Q-HAPI System is very easy to adjust on-site and it is designed to be visible during day- and night-time.

The intensity of the Q-HAPI can be manually switched at the Q-Controller For HAPI System during night-time or day-time to the following intensities: 10%, 30% and 100%, according to ICAO annex 14.



| Specifications               | Q-Control WMX4  | Q-Status Control                       | Q-HAPI                     |
|------------------------------|---|--|----------------------------|
| Application                  | Control Room  | Control Room                           | Control Room               |
| Hazardous area               | Safe Area   | Safe Area                              | Safe Area                  |
| Typical System Configuration | 7 x AC switchable group<br>1 x TDPM<br>1 x Status Light System<br>2 x HAPI Light System | 1 x Status Light<br>1 x Repeater Light | 1 or 2 x HAPI              |
| Enclosure                    | Steel, Powder coated  | Steel, Powder coated                   | Steel, Powder coated       |
| Mounting                     | WallMount, 4x M8  | WallMount, 4x M8                       | WallMount, 4x M8           |
| Input voltage                | 100-240 Vac 50-60 Hz  | 100-240 Vac 50-60 Hz                   | 100-240 Vac 50-60 Hz       |
| Ambient temperature          | -25°C to +60°C  | -25°C to +60°C                         | -25°C to +60°C             |
| Cable Sizes                  | 11 - 19 mm Outer Diameter   | 11 - 19 mm Outer Diameter              | 11 - 19 mm Outer Diameter  |
| Ingress protection           | IP 66   | IP 66                                  | IP 66                      |
| Dimension                    | 800 x 600 x 210 mm (LxWxH)  | 400 x 300 x 210 mm (LxWxH)             | 400 x 300 x 210 mm (LxWxH) |
| Articlecode                  | Q31WMX4   | Q14RI03C                               | Q72RI03C                   |





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