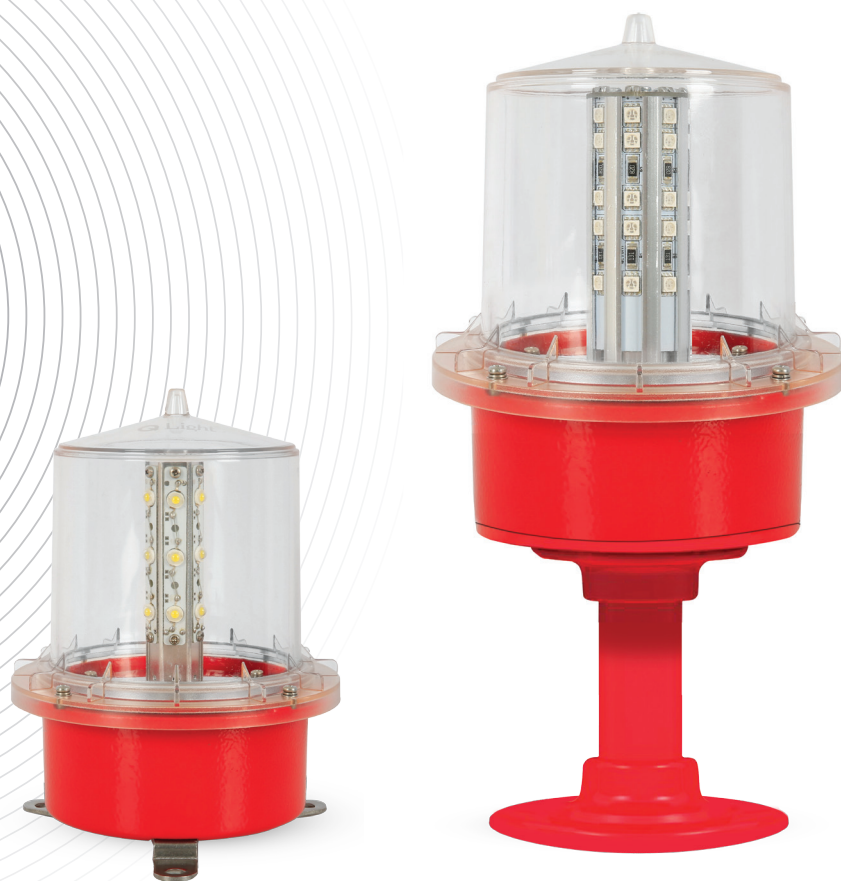


Innovation in alarm & signal

CATALOGUE 2018.02  
Aviation Obstruction Lights



# Company Introduction



## Qlight Gives You a Brighter Future!

Qlight has been a world-leading provider of visual and audible status indicating systems and solutions for the last three decades. We pride ourselves in developing products which help our customer's improve productivity, safety, and quality control in the industrial automation and commercial industries. Our strong dedication to innovative products, quality assurance, well-established supply chain, customizable manufacturing and strong customer relationships have helped us earn the top market share in Korea and China. These core values have also been fundamental to our continued growth into new markets. Qlight's products are certified by the International Quality Management System (ISO14001), IECEX, ATEX, UL, NEPSI, CE, Lloyd, KIMM, and KOSHA which display our dedication to strin-

gent quality control and product development based on safety-pursuing industry standards.

Our assembly lines in Busan, South Korea and Shanghai, China presently provide a variety of more than 450 of products to more than 40 countries, based on sales offices in South Korea (Seoul, Busan) China (Shanghai, Shenzhen, Shenyang, Tianzhen, Tianjin, Wenzhou), and the U.S. (Silicon Valley). The Qlight brand reflects 30 years of research and development, certification, and manufacturing experience.

We will continue to establish ourselves as an industry-leading provider by pushing the boundaries of technology in order to enhance our customer's efficiency and safety in every industry and region of the world.



## Qlight Global Networks

Country	Company name	Address	Phone
Korea	Qlight Co., Ltd.	HQ   A-412, 579, Gyeongin-ro, Guro-gu, Seoul, Korea Factory   185-25, Mukbang-Ro, Sangdong-Myeon, Gimhae-si, Gyeongsangnamdo, Korea	+82-80-328-2222 +82-80-328-1111
USA	Qlight USA, Inc.	#341, 3003 North First St., San Jose, CA 95134 USA	+1-408-519-5740
China	SHANGHAI Qlight Electronics Co.,Ltd	#19, Nanda Road, Baoshan Area, Shanghai, China	+86-21-6651-7100

## Qlight Clients Heavy industry / Ship building / Automotive / Steel / Machinery / Petrochemical / Power plants / Electronics / Semiconductor / Emergency Vehicles





# Company History

Qlight has been striving to accomplish our mission to provide visual and audible status indicating systems and solutions to enhance our customer's work safety and efficiency for the last three decades.

1986-1992	1993-2005	2006-2010	2011 to Present	- Future
Business foundation and consolidation	Growing as a signal transmission device specialist	A great leap forward & business reconstruction	New engines for growth	The 2 <sup>nd</sup> growth and globalization
				
			<p><b>2017</b> 08 ISO 14001 : 2015 certificate aquired 02 Obtained ICAO certification for SAOL1</p> <p><b>2016</b> 11 Obtained the patent for "multi-functional modular signal tower light" (Patent # : 10-1676863) 09 Obtained the patent for "Emergency Vehicle Lightbar" (Patent # : 10-1662283) 07 Obtained UL certificate for LED signal lights Q series Obtained the patent for "Bar style LED work lights" (Patent # : 10-1598123)</p> <p><b>2015</b> 09 The second headquarter factory built 06 Limit switch models (3 items including SW2TS) acquired certificates from RMRS 03 LED work lights (QML150/250, QMFL 500/600) UL listed</p> <p><b>2014</b> 10 Established the Qlight USA, Inc. in San Jose, CA. Horn which that emits light patented (Patent # : 10-1452447) Fan/ tilt type bracket patented (Patent # : 10-1452445) 09 LED strobe light with multi-lens patented (Patent # : 10-1444391) 08 Explosion proof product family including SNE, SNES, SESA, SEA, SPNA acquired IECEx certificates 06 Selected as a promising export company by Small &amp; Medium Business Admin., Korea 01 Non-sparking explosion proof tower lights including ST45ML and STB45ML acquired KGS and NEPSI certificates</p> <p><b>2013</b> 01 Portable warning lights for agricultural machine applications patented (Patent # : 10-1226959)</p> <p><b>2012</b> 12 Explosion proof warning lights (SNE, SNES) acquired CCS certificates LED work light with cylindrical lens attached patented (Patent # : 10-1219020) 09 Explosion proof warning lights (SESA, SEA, SPNA) and heavy-duty warning lights (SH1, SED, SEWN30) certified by CCS 01 LED warning light with LED reflector patented (Patent # : 10-1108102)</p> <p><b>2011</b> 11 SNE, SNES certified by NEPSI, SNE, SNES, SESA, SEA, SPNA certified by KOSHA 08 KCC (Korea Communications Commission) certificate acquired 07 Light equipment applying prism system patented (Patent # : 10-1051056)</p> <p><b>2010</b> 05 QEB certified by KIMM LED warning light, bulb revolving warning light patented (Patent # : 10-0961472) 03 Research and development center established</p> <p><b>2009</b> 12 SSEL certified by KIMM LED tower lights compliant with the RoHS directive</p> <p><b>2008</b> 04 Motor drive system patented (Patent # : 20-0439536) 03 LED revolving type lens patent acquired (patent # : 10-0808669)</p> <p><b>2007</b> 11 Explosion proof electric horn (SPNA) acquired NEPSI certificates 05 Tower light models including ST45, ST56, ST80) UL listed</p> <p><b>2005</b> 07 Heavy-duty products for vessel applications acquired Lloyd's (UK's Maritime Classification Society) certificates 04 ABS certificates acquired for 18 products including SH1</p> <p><b>2004</b> 06 ISO 9001:2000 certificates acquired</p> <p><b>2001</b> 02 Established Shanghai Qlight Electronic Co.,Ltd. in China</p> <p><b>2000</b> 07 Established Qlight Limited</p> <p><b>1993</b> 11 Nominated for developing domestic explosion proof warning lights by Korean Ministry of Science &amp; Technology</p> <p><b>1988</b> 03 Developed limit switches for vessel applications</p> <p><b>1986</b> 07 Established Qlight</p>	

CATALOGUE

# Aviation Obstruction Lights

INNOVATION IN ALARM & SIGNAL



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# Aviation Obstruction Light Technical Data

## Application areas

### ■ Objects inside the Obstacle Restriction Area

- Obstacle certified for use at night that is 60m from the ground and is located within the Obstacle Restriction Area of an airport.
  - If the obstacle is located above the approach surface or transitional surface of the airfield.
  - If the obstacle is located above the horizontal surface or conical surface of the airfield.

### ■ Objects Outside the Obstacle Restriction Area

- Obstacle that is 150m from the ground.
- Chimneys, steel towers, poles, frame structures, electricity pylons, or wind turbines that are 60m from the ground.

## Classification

### ■ Low Intensity A Type or Low Intensity B Type Warning Light

- Obstacle that is 150m from ground and is located within the Obstacle Restriction Area.
- Low intensity A type model is installed on an obstacle that has limited mobility such as a boarding bridge.

### ■ Low Intensity C Type Warning Light

- Low intensity C type model(blue/flashing) is installed on an emergency vehicle or security vehicle operated inside the airport.
- Low intensity C type model(yellow/flashing) is installed on a normal vehicle or mobilize object that is operated inside the airport.

### ■ Low Intensity D Type Warning Light

- Low intensity D type model(yellow/flashing) is installed on escort vehicles that are operated inside the airport.

### ■ Medium intensity A Type Warning Light

- Medium intensity A type warning light(white/flashing) is installed in areas where trees or buildings are widespread.
- Obstacle that is 45m from the ground and is located within the Obstacle Restriction Area or an obstacle that is 150m from the ground and is located outside the Obstacle Restriction Area.

### ■ Medium intensity B Type Warning Light

- Medium intensity B type warning light(red/flashing) is installed in areas where trees or buildings are widespread.
- Obstacle that is 45m from the ground and is located within the Obstacle Restriction Area or an obstacle that is 150m from the ground and is located outside the Obstacle Restriction Area.

### ■ Medium intensity C Type Warning Light

- Medium intensity C type warning light(red/steady) is installed in areas where trees or buildings are widespread.
- Obstacle that is 45m from the ground and is located within the Obstacle Restriction Area or an obstacle that is 150m from the ground and is located outside the Obstacle Restriction Area.
- Medium intensity C type warning light(red/steady) cannot be used with other warning lights.

## Requirements

Classification	Color	Operation	Max imum intensity of light(cd)			Straight beam spread angle	intensity of light depending on angle(cd)				
			Above 500cd/m <sup>2</sup> (Day time)	Above 50-500cd/m <sup>2</sup> (Twilight)	Below 50cd/m <sup>2</sup> (Night time)		-10°	-1°	±0°	+6°	+10°
			Low intensity A type (Stationary)	Red	Steady		Non	Above10	above10	10°	—
Low intensity B type (Stationary)	Red	Steady	Non	Above32	above32	10°	—	—	—	Above 32	Above 32
Low intensity C type (Moving obstacle)	Amber/ Blue	Flashing(60-90fpm)	Non	40 - 400	40 - 400	12°	—	—	—	—	—
Low intensity D type (Escort vehicle)	Amber	Flashing(60-90fpm)	Non	200 - 400	200 - 400	12°	—	—	—	—	—
Medium intensity A type	White	Flashing(20-60fpm)	20000±25%	20000±25%	2000±25%	Above 3°	Below 3%	50% - 75%	Above 100%	—	—
Medium intensity B type	Red	Flashing(20-60fpm)	Non	Non	2000±25%	Above 3°	—	50% - 75%	Above 100%	—	—
Medium intensity C type	Red	Steady	Non	Non	2000±25%	Above 3°	—	50% - 75%	Above 100%	—	—
High intensity A type	White	Flashing(40-60fpm)	200000±25%	20000±25%	2000±25%	3°-7°	Below 3%	50% - 75%	Above 100%	—	—
High intensity B type	White	Flashing(40-60fpm)	100000±25%	20000±25%	2000±25%	3°-7°	Below 3%	50% - 75%	Above 100%	—	—

# Specification List for Aviation Obstruction Lights



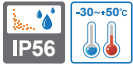
Model number(series)	SAOL1	QAOL1	SAOL2	SAOL3	SAOL4	
Voltage	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V	
Dimension (mm)	Diameter	Ø115	Ø117	Ø139	Ø157	
	Height	275	267	185(SAOL2) 273(SAOL2P)	215(SAOL3) 303(SAOL3P)	290
	Depth	-	-	-	-	-
Materials	Lens, Housing-PC Bracket-Al	Lens, Housing-PC Bracket-Al	Lens-PC, Housing-Al Bracket-Al	Lens-PC, Housing-Al Bracket-Al	Lens-PC, Housing-Al Bracket-Al	
Light source & Operation	Bulb Steady/Flashing					
	Bulb Revolving					
	LED Steady/Flashing	•(Steady)	•(Flashing)	•(Steady)	•(Steady)	
	LED Strobe					
	LED Simulated revolving xenon Strobe					
Mount type	Self stand	Self stand	Self stand	Self stand	Self stand	
Cable entry	-	-	-	-	-	
Protection rating	IP56	IP56	IP66	IP66	IP66	
Certificate	ICAO	ICAO	ICAO	ICAO	ICAO	
Customization	-	-	Cable entry - 1/2"PF, Built-in SUN switch	Cable entry - 1/2"PF, Built-in SUN switch	Cable entry - 1/2"PF, Built-in SUN switch	
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Model number(series)	QEAL1	QEAL2
Voltage	DC12V, DC24V AC110V, AC220V	DC12V, DC24V AC110V, AC220V
Dimension (mm)	Diameter	Ø152(Cage)
	Height	238
	Depth	183(Length)
Materials	Lens-Tempered glass Housing-Al	Lens-Tempered glass Housing-Al
Light source & Operation	Bulb Steady/Flashing	
	Bulb Revolving	
	LED Steady/Flashing	•(Steady)
	LED Strobe	
	LED Simulated revolving xenon Strobe	
Mount type	Self stand	Self stand
Cable entry	1/2" NPT	1/2" NPT
Protection rating	IP66	IP66
Certificate	KOSHA	KOSHA
Explosion proof rating	Ex d IIC T4 (KOSHA)	Ex d IIC T4 (KOSHA)
Customization	Explosion proof cable gland, 2 ways cable entry, Cable entry : M20x1.5, Built-in SUN switch	Explosion proof cable gland, 2 ways cable entry, Cable entry : 3/4" NPT, M20x1.5, M25x1.5, Built-in SUN switch
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# SAOL1

## Low Intensity LED Aviation Obstruction Light



Applied on tall structures for collision avoidance measures and airport runway safety



Obtained Certification from the International Civil Aviation Organization



SAOL1



### Common Specifications(SAOL1/ SAOL2/ SAOL3/ SAOL4)

- LED light bulbs with increased lifetime decreases the replacement cost of the light source (LED lasts 25 times longer than a standard lamp bulb)
- For SAOL2 and SAOL3 type, can select between direct mount and pole mount type to fit your application needs
- Excellent durability from a selection of a polycarbonate or an aluminum housing structure
- Terminals located inside the housing for wiring (SAOL2/ SAOL3/ SAOL4)
- Built-in SUN switch available upon request which activates a system that automatically operates the product when darkness is detected



### SAOL1 Low Intensity LED Aviation Obstruction Light

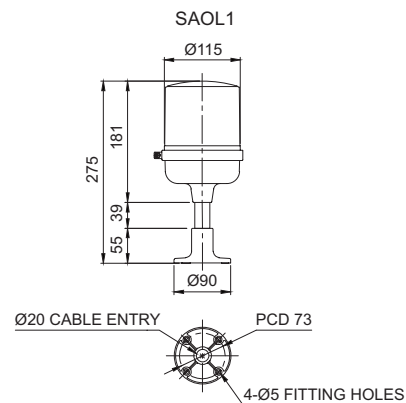
- Low intensity A type aviation obstruction lights are installed onto fixed objects that are less than 150m from the land or water surface

ICAO standard	Low intensity A type		
Light source	High intensity light emitting diodes(LED)		
Light color	Red		
Light function	Steady		
Voltage	DC12V, DC24V, AC110V, AC220V		
Power consumption	20W		
Standard housing color	Black	Cable entry	Ø20
Materials	Lens-PC, Housing-PC, Lens ring- SUS316L, Pole-AI, Bracket-AI		
Protection rating	IP56	Ambient operating temperature	-30°C to +50°C
Certificate	ICAO compliant	Luminous intensity	17cd ±25%



### Technical Diagram

(Units : mm)



### Ordering Specification

<b>SAOL1</b>	-	<b>24</b>	-	<b>R</b>
[Model number]		[Voltage]		[Color]
• SAOL1		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red



# QAOL1

## Low Intensity LED Aviation Obstruction Light



**Collision avoidance lights for running automobile and moving objectives in airport runway and aerodrome**



**Obtained Certification from the International Civil Aviation Organization**



**QAOL1**



### QAOL1 Low Intensity LED Aviation Obstruction Light

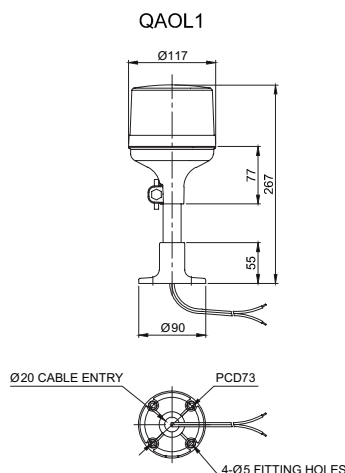
• Low intensity type C is intended for automobile and moving objectives in airport runway and aerodrome.

ICAO standard	Low intensity C type		
Light source	High intensity light emitting diodes(LED)		
Light color	Amber		
Light function	Flashing		
Voltage	DC12V, DC24V, AC110V, AC220V		
Power consumption	20W		
Standard housing color	Black	Cable entry	Ø20
Materials	Lens-PC, Housing-PC, Pole-SUS304, Bracket-Al		
Protection rating	IP56	Ambient operating temperature	-30°C to +50°C
Certificate	ICAO compliant	Luminous intensity	200cd/m



#### Technical Diagram

(Units : mm)



#### Ordering Specification

<b>QAOL1</b>	-	<b>24</b>	-	<b>A</b>
[Model number]		[Voltage]		[Color]
• QAOL1		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• A-Amber

# SAOL2

## Low Intensity LED Aviation Obstruction Light



Applied on tall structures for collision avoidance measures and airport runway safety



Obtained Certification from the International Civil Aviation Organization



SAOL2



SAOL2P

Wire is not exposed outside in the pole mount model.

### SAOL2 Low Intensity LED Aviation Obstruction Light

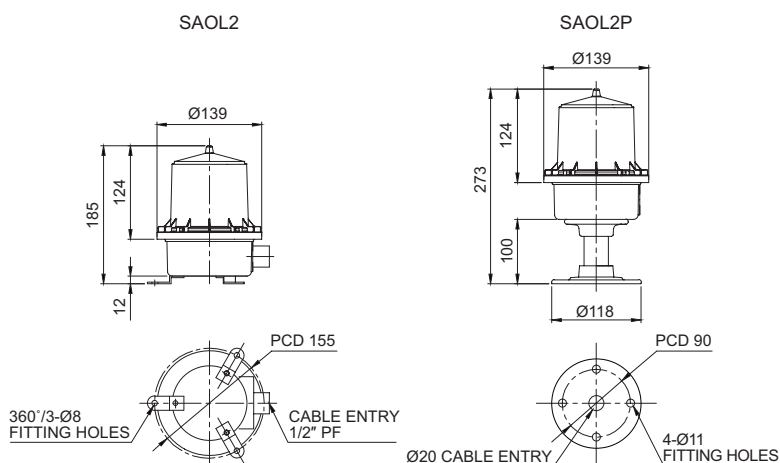
- Low intensity A type aviation obstruction lights are installed onto fixed objects that are less than 150m from the land or water surface

ICAO standard	Low intensity A type		
Light source	High intensity light emitting diodes		
Light color	Red		
Light function	Steady		
Voltage	DC12V, DC24V, AC110V, AC220V		
Power consumption	20W		
Standard housing color	Red	Cable entry	1/2"PF
Materials	Lens-PC, Housing-Al		
Protection rating	IP66	Ambient operating temperature	-30°C to +50°C
Certificates	ICAO compliant	Luminous intensity	19cd ±25%



#### Technical Diagram

(Units : mm)



#### Customization

- Cable gland - 1/2"PF  
Standard model is not equipped with cable gland
- Built-in darkness detecting sensor available



#### Ordering Specification

[Model number]	[Voltage]	[Color]
• SAOL2 • SAOL2P	• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V	• R-Red

# SAOL3

## Low Intensity LED Aviation Obstruction Light



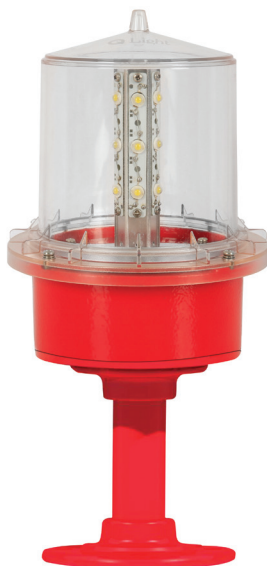
Applied on tall structures for collision avoidance measures and airport runway safety



Obtained Certification from the International Civil Aviation Organization



SAOL3



SAOL3P

Wire is not exposed outside in the pole mount model.

### SAOL3 Low Intensity LED Aviation Obstruction Light

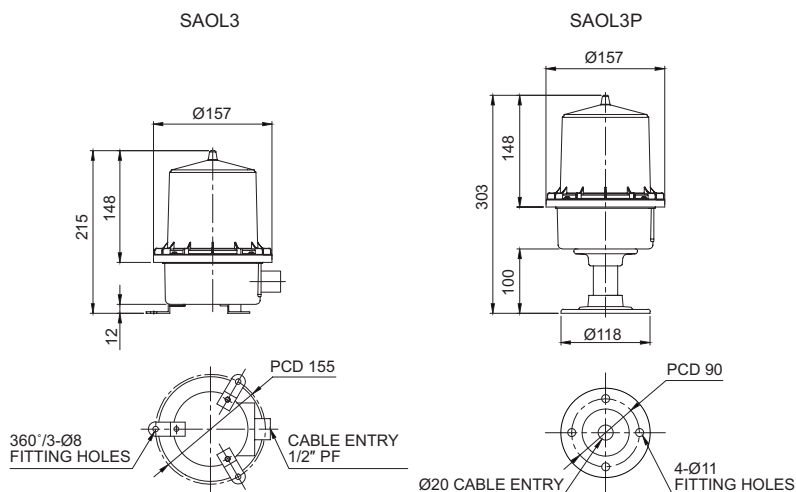
- Low intensity B type aviation obstruction lights are installed onto fixed objects that are less than 150m from the land or water surface

ICAO standard	Low intensity B type		
Light source	High intensity light emitting diodes		
Light color	Red		
Light function	Steady		
Voltage	DC12V, DC24V, AC110V, AC220V		
Power consumption	30W		
Standard housing color	Red	Cable entry	1/2"PF
Materials	Lens-PC, Housing-Al		
Protection rating	IP66	Ambient operating temperature	-30°C to +50°C
Certificates	ICAO compliant	Luminous intensity	48cd/m



#### Technical Diagram

(Units : mm)



#### Customization

- Cable gland - 1/2"PF  
Standard model is not equipped with cable gland
- Built-in darkness detecting sensor available



#### Ordering Specification

<b>SAOL3</b>	-	<b>24</b>	-	<b>R</b>
[Model number]		[Voltage]		[Color]
• SAOL3 • SAOL3P		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red



# SAOL4

## Medium Intensity LED Aviation Obstruction Light



Applied on tall structures for collision avoidance measures and airport runway safety



Obtained Certification from the International Civil Aviation Organization



SAOL4



### SAOL4 Medium Intensity LED Aviation Obstruction Light

- Medium intensity A, B and C type aviation obstruction lights are installed onto objects higher than 45m within the Obstacle Restriction Area or higher than 150m outside the Obstacle Restriction Area

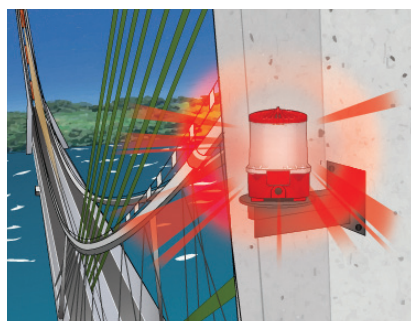
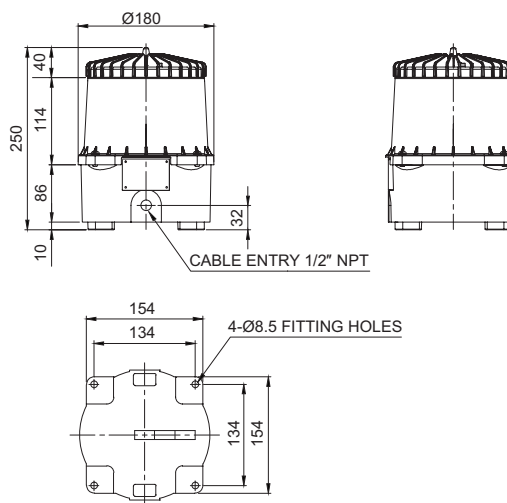
ICAO standard	Medium intensity A, B and C type		
Light source	High intensity light emitting diodes(LED)		
Light color	Red, White		
Light function	Flashing(A and B type ), Steady(C type)		
Flashing rate	20-60 flashes/min		
Voltage	DC12V, DC24V, AC110V, AC220V		
Power consumption	130W		
Standard housing color	Red	Cable entry	1/2" NPT
Materials	Lens-PC, Housing-Al, Cover-Al, Heat sink-Al		
Protection rating	IP66	Ambient operating temperature	-30°C to +50°C
Certificates	ICAO compliant	Luminous intensity	2,000cd ± 25%



#### Technical Diagram

(Units : mm)

SAOL4



#### Customization

- Cable gland(connector)  
Standard model is not equipped with cable gland(connector)
- Built-in darkness detecting sensor available



#### Ordering Specification

<b>SAOL4</b>	-	<b>A</b>	-	<b>24</b>
[Model number]		[Type]		[Voltage]
• SAOL4		• A-Medium intensity A type : White, Flashing • B-Medium intensity B type : Red, Flashing • C-Medium intensity C type : Red, Steady		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V

# QEAL1

## Explosion Proof Low Intensity LED Aviation Obstruction Light



### **QEAL1** Explosion Proof Low Intensity LED Aviation Obstruction Light

- Low Intensity B type explosion proof aviation obstruction light
- Features high visibility from a distance with the direct LED light distribution system
- Cost savings enabled by using a long lasting LED light source which eliminates the need for maintenance
- Aluminum housing provides excellent durability
- Terminals located inside the housing for wiring
- Protection rating : Ex d IIC T4, IP66



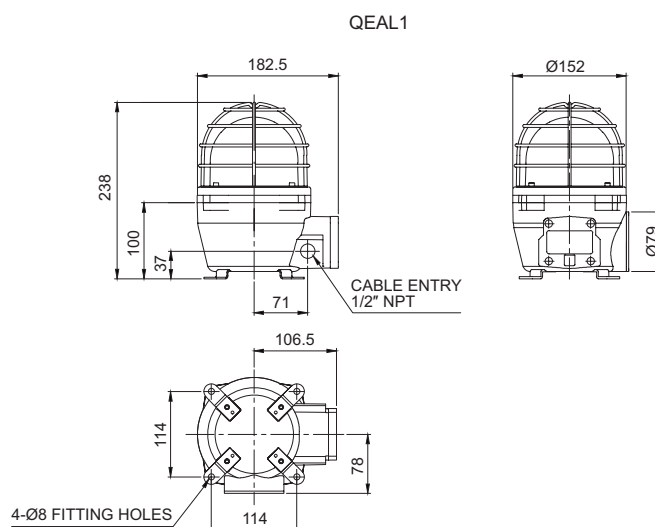
**QEAL1**

ICAO standard	Low intensity B type		
Light source	High intensity light emitting diodes(LED)		
Light color	Red		
Light function	Steady		
Voltage	DC12V, DC24V, AC110V, AC220V		
Power consumption	30W		
Standard housing color	Red	Cable entry	1/2" NPT
Materials	Lens-Tempered glass, Housing-Al, Lens ring- SUS316L, Protection cage-SUS316L, Heat sink-Al		
Protection rating	IP66	Ambient operating temperature	-40°C ≤ T <sub>amb</sub> ≤ +60°C
Certificate	KC(KOSHA)	Luminous intensity	50cd ±25%



#### Technical Diagram

(Units : mm)



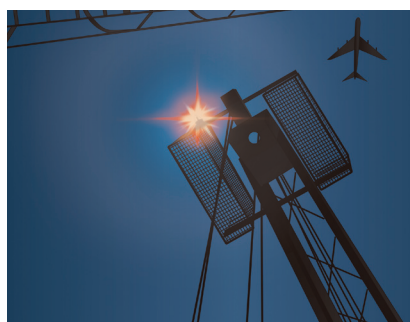
#### Customization

- Built-in explosion proof cable gland available(Standard type does not provide explosion proof cable gland)
- Customized 2 cable entries available
- Customized cable entry(M20×1.5) available
- Built-in darkness detecting sensor available



#### Ordering Specification

<b>QEAL1</b>	-	<b>220</b>	-	<b>R</b>
[Model number]		[Voltage]		[Color]
• QEAL1		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V		• R-Red



Explosion proof aviation obstruction lights are installed within hazardous areas on a surface that is more than 60m from the water surface or land such as towers and smokestacks.

# QEAL2

## Explosion Proof Medium Intensity LED Aviation Obstruction Light



QEAL2

### **QEAL2** Explosion Proof Medium Intensity LED Aviation Obstruction Light

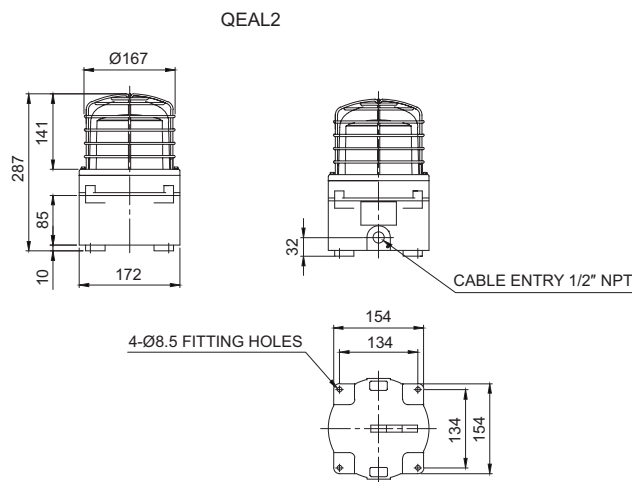
- Explosion proof medium intensity A and B type aviation obstruction light
- LED light distribution structure that directly radiates light to the user for excellent visibility
- Using semi-permanent lifetime of the LED light source decreases the light source replacement cost
- Excellent durability by adopting aluminum housing
- Built-in terminal for power line inside of housing
- Protection rating : Ex d IIC T4, IP66

ICAO standard	Medium intensity A and B type		
Light source	High intensity light emitting diodes(LED)		
Light color	Red, White		
Light function	Flashing		
Flashing rate	20-60 flashes/min		
Voltage	DC12V, DC24V, AC110V, AC220V		
Power consumption	130W		
Standard housing color	Red	Cable entry	1/2" NPT
Materials	Lens-Tempered glass, Housing-Al, Protection cage-SUS316L, Heat sink-Al		
Protection rating	IP66	Ambient operating temperature	-40°C ≤ T <sub>amb</sub> ≤ +60°C
Certificates	KC(KOSHA) compliant	Luminous intensity	2,000cd ± 25%



### Technical Diagram

(Units : mm)



### Customization

- Explosion proof cable gland attached type available (Standard type does not come with explosion proof cable gland)
- Customized 2 way cable entries
- Customized cable entry (3/4" NPT, M20×1.5, M25×1.5) available
- Built-in darkness detecting sensor available



### Ordering Specification

<b>QEAL2</b>	-	<b>A</b>	-	<b>24</b>
[Model number]		[Type]		[Voltage]
• QEAL2		• A-Medium intensity A Type : White, Flashing • B-Medium intensity B Type : Red, Flashing		• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V



# Technical Certification

Qlight products are designed to meet strict quality and technical standards. Thus, the Qlight brand is widely recognized for its high quality and technical innovations from leading institutions around the world.



## ISO International Organization for Standardization

Qlight quality assurance systems have been certified by ISO by applying the ISO 9001:2008, KS Q ISO 9001:2009 regulation.



## IECEX International Explosion Proof Certification (IECEX)

Certified that Qlight's products are being manufactured and managed according to international standards.



## ATEX The European Regulatory Framework of Manufacture, Installation and Use of Equipment in Explosive Atmospheres

Qlight explosion proof products comply with ATEX Directives 94/9/EC.



## NEPSI National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation

Qlight's design and manufacturing system meets the People's Republic of China National explosion proof Standard. (Chinese Standard-GB3836/GB12476)



## KGS Korea Gas Safety Corporation

Approved from "Korea Gas Safety Corporation" that Qlight's design and manufacturing system meets the standard of KGS.



## KOSHA Korea Occupational Safety and Health Agency

Approved by the "Korea Occupational Safety and Health Agency" that Qlight's design and manufacturing system meets the standard of KOSHA.



## ABS American Bureau of Shipping

Qlight's design and quality assurance system has been certified by the American Bureau of Shipping.



## LR Lloyd's Register

Qlight design and quality assurance system has been certified from Lloyd's Register.



## CCS China Classification Society

Qlight design and quality assurance system has been certified by the China Classification Society.



## RMRS Russian Maritime Register of Shipping

Qlight design and quality assurance system has been certified from Russian Maritime Register of Shipping.



## KR Korean Register of Shipping

Qlight design and quality assurance system has been certified by the Korean Register of Shipping.



## CE European Commission

Qlight has been certified by the European Commission.



## UL Underwriters Laboratories

Qlight design and quality assurance system has been certified from UL to ensure the stability of consumption goods and to protect consumers.



## KC Korea Safety Certification

Qlight products are certified by KC for preventing accident caused by fire.



## CCC China Compulsory Certificate

Qlight has obtained CCC which guarantees safety, protection against fraud, environment, etc.



## ICAO International Civil Aviation Organization

Qlight guarantees our products satisfy the criteria regulated by the International Civil Aviation Organization (ICAO, FAA).



## E-mark Commission Directive Regarding Vehicle Industry

Qlight has obtained EU mark for approved vehicles and vehicle components sold into the EU (EEA: European Economic Area)



## RoHS Restriction of Hazardous Substances Directive

Qlight complies with the Restriction of Hazardous Substances Directive by limiting its use of hazardous materials.

# Icon Description

This catalogue helps users quickly identify the product's specifications and features by using several types of icons. If you understand the concept for each icon, you will find it easy to understand the catalogue information.

## Light Source and Operating Mode Icons

Icon	Operating Mode	Icon	Operating Mode
	Bulb steady type		Bulb steady/flashing type
	Bulb revolving type		LED revolving type
	LED steady type		LED steady/ flashing type
	LED simulated revolving type		LED strobe type
	Xenon lamp strobe type		

## Acoustic Signal Icons

Icon	Operating Mode	Icon	Operating Mode
	Buzzer		Speaker
	Horn		Bell
	Motor siren		MP3
	Decibel		

## Specifications Icons

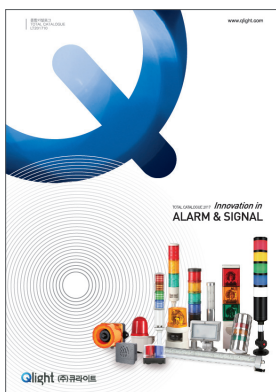
Icon	Operating Mode	Icon	Operating Mode
	Magnet type		Ambient operating temperature
	NPN type transistor		PNP type transistor
	IP rating		Wireless Network

## Detail Icons

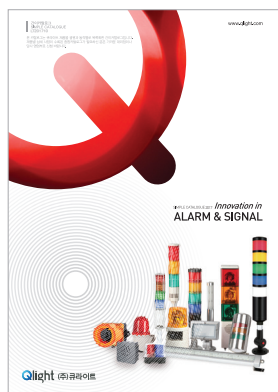
Icon	Operating Mode	Icon	Operating Mode
	Common specification		External view drawing
	Wiring		Mounting
	User specifications		Model selection

# Qlight Catalogue Introduction

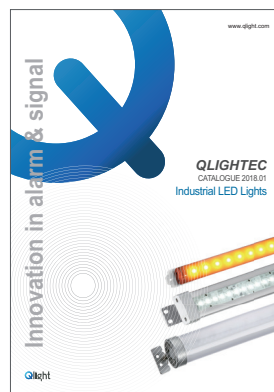
Qlight produces a wide variety of product categories which offers the customer the ability to select the suitable device for their application needs and environments. There are warning/signal lights, electric signal horns, signal tower lights, warning light bars, PC control tower lights, industrial LED lights, aviation obstruction lights, and limit switches.



Total Catalogue



Simple Catalogue



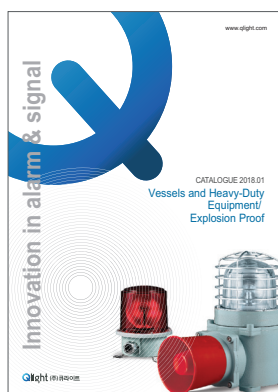
Industrial LED Lights



Signal Tower Lights



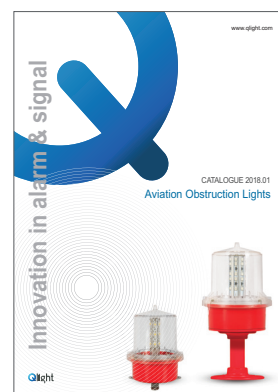
Warning/ Signal/ Signal & Electric Horn



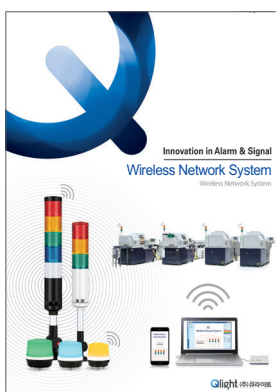
Vessels and Heavy-Duty Equipment/ Explosion Proof



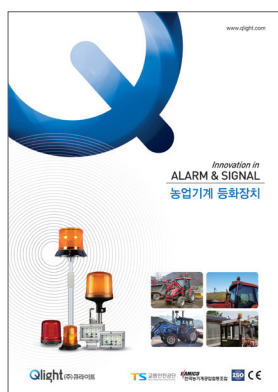
Warning Light Bar



Aviation Obstruction Lights



Wireless Network System



Agriculture Machine Warning Light



Limit Switch



For Steel Manufacturing Facilities



FOR YOUR  
SAFETY

Specification and dimensions listed in this catalogue are subject to change without prior notice for product quality improvement. The newest product information is available on our web site. ([www.qlight.com](http://www.qlight.com)) Please read the Instruction Manual attached to the product carefully before installation and use.

## ***Qlight Catalogue Introduction***

*Signal Tower Lights*

*Warning/ Signal & Electric Horn*

*Vessels and Heavy-Duty & Equipment/ Explosion Proof*

*Warning Light Bar*

*Aviation Obstruction Lights*

*Industrial LED Lights*

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WARNING LIGHT | ELECTRONIC HORN | SIGNAL TOWER LIGHT | EMERGENCY LIGHT BAR | LED OBSTRUCTION LIGHT | LED WORK LIGHT