INNOVATION IN ALARM & SIGNAL

WARNING LIGHT
EXPLOSION PROOF WARNING LIGHT
HEAVY-DUTY WARNING LIGHT
SIGNAL TOWER LIGHT
USB INTERFACE / ETHERNET LED TOWER LIGHT
ELECTRONIC HORN
LED LIGHT BAR / WORK LIGHT
EMERGENCY LIGHT BAR
WATER PROOF & EXPLOSION PROOF LIMIT SWITCH
QLight gives you a brighter future!

QLight is a world-leading provider of visual and audible status indicating systems and solutions since 1992. We pride ourselves in developing products which help our customer’s improvement, 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 (ISO 9001), ATEX, UL, CE, Lloyd, KIMM, and KOSHA which display our dedication to stringent quality control and product development based on safety-pursuing industry standards.

Our assembly lines in Busan, South Korea and Shanghai, China presently provide over 300 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 over 20 years of research and development, certification, and manufacturing experience. We will continue to establish ourselves as a industry-leading provider by pushing the boundaries of technology in order to enhance our customer’s efficiency and safety in every region of the world.
QLight strives to accomplish our mission to provide visual and audible status indicating systems and solutions which increase safety and work efficiency in the automation industry.
Obtained RMRS (Russian Maritime Register of Shipping) certificates for three items including SW2TS limit switch.
- Obtained UL certificates for LED work lights for QML150/250 and QMFL500/600.
- ATEX (European certification of explosion proof) certificate acquired.
- Venture company certificate acquired.
- Technology innovation company (INNOBIZ) certificate acquired.
- Commercialized LED work lights.
- CCS (Chinese classification society) certificate acquired.
- ICAO (International Civil Aviation Organization) certificate acquired.
- Selected as a promising export company by the Small & Medium Business Admin., Korea.
- KGS certificate acquired.

New Engines of Growth

QLight will continue to take our chances for the second growth and globalization.

Continued Growth and Globalization
QLight will continue to establish itself as the world-leading provider in the automation manufacturing industry.
QLight strives to continue its lead in producing quality products for the automation industry by forming a compassionate corporate culture, fulfilling customer oriented needs, and maximizing industrial efficiency in signal device manufacturing.

**Global Network**
We are able to maximize our management efficiency through the presence of our global network of production and sales sites. Our global teams are held accountable for short delivery times, industry leading customer service, cost competitiveness and quality products appropriate for any industry environment.

**Shared Management**
We practice a “Business Sharing” policy by allocating a portion of our profit and time with the local community. We support organizations which encourage children’s dreams and hopes through reading activities.

**Specialization**
We concentrate our management and R&D efforts on developing and improving the quality of signal transmission devices which make us the world’s leading company and experts in our field.

**Customer-Oriented Management**
We aim to help our customers maximize their profits and work efficiency by providing them with a diversified product portfolio with an emphasis on innovation, quality assurance, and customer focused support.

**Differentiation**
In order to support the critical needs of our customers, QLight accomplishes cost efficiency by differentiating the business strategy in R&D, production, marketing, and customer service.

**Companionate corporate culture**
With the cooperation of both company and employees pursuing a common goal, we promote and encourage many policies that support employee creativity, welfare, communication, vision sharing and motivation within the company.
Industry-leading company

Industrial efficiency

Customer respect
QLight’s R&D Laboratory continually strive to enhance our technology in the areas of product miniaturization, unmanned operation, and strengthened durability in order to develop the products that can satisfy customer’s sophisticated needs.

Considering our customer’s diverse operational conditions, we constantly pursue the best product quality by testing and measuring our products under the most extreme conditions. We achieve our high quality through standardized processes acknowledged by world leading certificate organizations such as UL, CE, ATEX, IEC-Ex and etc.

### Research Achievements

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Interchangeable layer type tower lights</td>
</tr>
<tr>
<td>02</td>
<td>Warning light globes applying optical-path direction lighting system</td>
</tr>
<tr>
<td>03</td>
<td>Floodlight with high efficiency LED for inspecting cracks for industrial sites and industrial machine</td>
</tr>
<tr>
<td>04</td>
<td>A lens that helps deliver the LED’s light to the lateral direction, and bulbs applying this lens (LR-transparent)</td>
</tr>
<tr>
<td>05</td>
<td>High intensity LED revolving warning lights applying multidirectional reflector</td>
</tr>
<tr>
<td>06</td>
<td>Explosion proof electric horns applying sintered flame arrester</td>
</tr>
<tr>
<td>07</td>
<td>Brushless DC Motor</td>
</tr>
<tr>
<td>08</td>
<td>Rotors applying V-belt drive, featuring high energy efficiency and minimized noise</td>
</tr>
<tr>
<td>09</td>
<td>Multiple color LED warning light</td>
</tr>
<tr>
<td>10</td>
<td>Signal lights applying LED bulbs as light source</td>
</tr>
<tr>
<td>11</td>
<td>Solar powered warning lights</td>
</tr>
<tr>
<td>12</td>
<td>Direct-drive warning lights</td>
</tr>
<tr>
<td>13</td>
<td>Special driving gear for revolving warning lights</td>
</tr>
<tr>
<td>14</td>
<td>LED Bulb applying special lens</td>
</tr>
<tr>
<td>15</td>
<td>Warning lights for heavy industry applying multi lens system</td>
</tr>
<tr>
<td>16</td>
<td>Signal horns embedded in the enclosure body that functions as a light sources</td>
</tr>
<tr>
<td>17</td>
<td>LED Work light bars specifically designed for machine tools with protection rating of IP69</td>
</tr>
</tbody>
</table>
Lab for Testing Explosion Proof Products

To maximize our efficiency in developing products within market driven timelines, QLight has invested our own explosion proof test facilities in order to quickly develop new technologies and conduct pre-certification testing. The pre-certification testing follows the strict IEC 60079-0, IEC 60079-1 standards to ensure our quality and smooth certification process when submitted to universal standards bodies.

Process of Explosion Proof Testing

Step 01
TEMPERATURE MEASUREMENT
- DATA LOGGER
- CONSTANT TEMP & HUMI CHAMBER

Step 02
TEST FOR THERMAL SHOCK & THERMAL ENDURANCE TO HEAT
- CONSTANT TEMP & HUMI CHAMBER

Step 03
TEST OF RESISTANCE TO IMPACT
- IMPACT TEST EQUIPMENT

Step 04
AERATION MEASUREMENT
- DIGITAL MICROSCOPE

Step 05
REFERENCE PRESSURE MEASUREMENT & TEST FOR FLAME SPREAD
- EXPLOSION CHAMBER
- GAS MIX CYLINDER
- GAS ANALYZER
- BLASTING MACHINE
- GAS MIX TUBE

Step 06
OVERPRESSURE TEST
- WATER PRESSURE TESTER
By adopting an technology standard and assurance system, QLight has achieved quality gentrification and standardization to meet our customer’s sophisticated needs.

- **Enterprise Resource Planning (ERP) system which maximizes management efficiency**
  The comprehensive enterprise resource planning system allows QLight to quickly understand, communicate, and manage current business conditions in an efficient and transparent platform.

- **High efficient SCM (Supply Chain Management) ensures quick delivery time**
  Our SCM’s ability to visualize the entire supply chain at a glance from purchasing to production and to distribution allows for enhanced production efficiency for quick ontime delivery.

- **Apply cell manufacturing systems where operators are responsible for entire procedure from beginning to final step.**
  modular parts and cell manufacturing systems allows for flexible and mass customization.

- **Set-up Mass customization through flexible customer-driven production systems (FMS: Flexible Manufacturing System)**
  430 product families to satisfy diverse usage and conditions. Prompt production system to produce 15,000 types of parts.

- **One-stop system which allows QLight to respond quickly to market**
  marketing strategy, R&D, purchasing, production and quality control activities are planned and carried out in one area with a one-stop system that allows QLight to respond quickly to market needs.
QLight produces a variety of more than 430 products that can be applied to diverse industries such as road safety equipment, automation, semiconductor, automotive, steel, shipbuilding, vessels and offshore rigs, hazardous, and heavy duty outdoor plants.

**Warning lights**

QLight offers warning lights and beacons in different sizes, light sources, display patterns, and protection ratings which can be selected according to your needs and application environments. We derive our source of light from LED bulbs and Xenon light bulbs which enabled a long lifespan, high luminance, and low energy consumption while maintaining cost. QLight’s revolving type warning lights employs our exclusive patented power transmission system that minimizes noise and wear.

**Explosion Proof Warning Lights**

QLight offers world class explosion proof warning lights and tower lights specifically designed for use in potentially flammable and explosive atmospheres. Our products comply with IEC in accordance to the ATEX directives. Built-in buzzer/electronic horn/ alarm bell combination products are also available in different sizes with sound volume of Max. 85-118dB/1m. Explosion proof electronic horns with variety of built-in sounds provide a clear and long-distance audible sound volume of Max.118dB.

**Heavy duty Warning lights for ship building**

QLight offers heavy-duty warning lights with strong ingressed protection with superior durability and enhanced long-distance visibility. These products are designed specifically for water, saline, shock environment applications such as vessels and offshore rigs. Heavy-duty warning light and electric horn combination products are particularly suitable for harsh environmental industries with severe noise such as container cranes, vessels, and steel manufacturing industries. These product families are certified by ABS, LR, CCS and KR.
Signal Tower Lights

We offer various kinds of signal towers featuring excellent durability, superior visibility, a variety of sizes, layers, body material, voltage specifications, and protection ratings according to your application environment. Our signal towers and built-in buzzer/electronic horn combination products feature selectable sound patterns with excellent audibility with volume up to Max. 85dB/1m. We now offer LED signal towers with modules that are interchangeable to customers' specifications.

USB Interface / Ethernet LED Tower Lights

QLight offers Ethernet LED signal towers controlled and connected remotely by TCP/IP Ethernet through internet or LAN. USB interfaced LED signal towers connected and powered by the PC's USB port are also available. Both USB interfaced LED signal towers and Ethernet LED signal towers are also available in built-in buzzer/electronic horn combinations. All the products are available in various diameters ranging from Ø45mm to Ø80mm.

Electronic Horns

QLight's electric horns provide a clear and high volume sound up to 115dB with 30 user selectable melodies and 16 kinds of alarms prerecorded in each unit to user's specifications. Customized products with specific sound patterns, or horn arrangements with distribution amplifier are also available upon customer's request.
LED Light Bars / Work Lights for Industrial Applications

QLight’s work lights are offered in a variety of sizes and bracket options. They provide enhanced durability to shock and provide high intensity light with luminance of 450-1,800 Lux at 1 meter. LED work light bars are available in lengths of 200mm to 1200mm with selection of various luminance, globe materials, and color temperatures. These products also feature low maintenance cost and energy consumption by applying a specialized LED light system.

Emergency Light Bars

QLight light bars are available in different lengths, light sources, and display patterns according to our customer’s application environments and vehicle and vessel sizes. These customizable light bars feature extrastrong weather-resistant, and dust/water proof enclosures with superior visibility and enhanced durability.

Water / Explosion Proof Limit Switches

QLight provides compact size limit switches suitable for the petrochemical industry, food processing machineries, and machinery tools for compact applications. These products are impenetrable to water, oil, and particles with a protection rating of IP56. We also provide heavy duty limit switches with bronze housing perfectly suitable for heavy industry which require excellent corrosion resistance.
Q Light acquired 42 types of CE certificates from EU for products adhering to technical quality and standardization regulations.

QLight products have received ABS certification for limit switch, signal light, signal light and horn combination products and electronic horn product families.

QLight explosion proof products have acquired EU ATEX certificate.

QLight’s heavy-duty light and electronic horn combination products have been certified by LR.

Signal tower product family has received product safety testing & certification.
For its stringent quality control and development based on safety-pursuing industry standards, QLight’s products are best known for its superior technology by world leading institutions.
We follow a quality assurance policy that supports our customer's work efficiency by implementing state-of-the-art quality control and customer service systems.

By adopting an ISO 9001 quality management and assurance system, Qlight has achieved certified standards in quality. This adoption of strict technology standards and test systems minimizes production issues and allows us to focus our attention on customers' needs instead of production issues to ensure their success.

Quality Assurance Policy with Embrace and Understanding

1. Cost competitiveness through cost reduction
2. Short delivery through applying time-efficient SCm system
3. Enhanced empowerment of employees dealing with customers - allows for shortened service time to serve customer
4. Customized product production capability to support specific customer application needs.

Customer-Oriented Service Policy

1. Provide fast and accurate customer service
2. Strong technical teams that tackle issues when they occur.
3. Embracing customer service that understand customer’s situation
4. Open technical data available so customers can select the most suitable products for their application site.
Customer Service Policy

- All QLight products offer free warranty for the first year after purchasing
- RMA tickets are initiated within a week after a customer claim is filed - customer fault excluded

Warranty Timelines and Conditions

Support Under Warranty

<table>
<thead>
<tr>
<th>Classification</th>
<th>Timeline</th>
<th>Support Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>All products</td>
<td>One Year</td>
<td>Failures that occur with normal operation within warranty timeline</td>
</tr>
</tbody>
</table>

Support out of Warranty

<table>
<thead>
<tr>
<th>Timeline</th>
<th>Support Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>One year after the expired warranty date</td>
<td>- Equipment for which the warranty period has expired</td>
</tr>
<tr>
<td>Wear</td>
<td>- Warranty does not support Parts and options which are not from QLight</td>
</tr>
<tr>
<td>Customer Faults</td>
<td>- Case where parts break as a result of customer negligence</td>
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<tr>
<td></td>
<td>- When instructions are not followed</td>
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<td></td>
<td>- Parts that are modified by the buyer</td>
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<tr>
<td>etc.</td>
<td>- Customer’s inspection request without product failure</td>
</tr>
<tr>
<td></td>
<td>(It will be charged even under warranty)</td>
</tr>
<tr>
<td></td>
<td>* Installation and cautions are important to follow to avoid problems</td>
</tr>
</tbody>
</table>

Customer Service Process

Customer Service Request and Repair

- Please contact distributor’s office or QLight head office.
- Send us a customer service request note along with the defected product for smooth processing.
- If it is urgent, please contact the distributor or QLight head office.

Contact Point
- Tel.: +82-55-328-4082
- e-mail: trade@qlight.com
Thanks to QLight’s outstanding technology and excellent customer service, our products have been served in more than 40 countries, and the market share is continuously increasing throughout the world.
QLight has robust partnership with prominent corporations all over the world thanks to our R&D center, cutting-edge CRM system, and stringent service policy.

United States of America
Mexico

Clients
Heavy industry / Ship building / Automotive
Steel / machinery / Petrochemistry
Power plants / Electric, Electronics
Semiconductor / Emergency vehicles