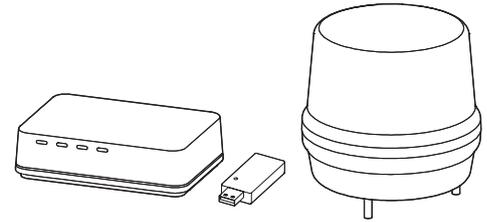


# Wireless Multiple Color LED Steady Signal Lights

## QMCL125-WIZ



Thank you for purchasing Qlight's products. Please read this user manual carefully prior to installation and operation to ensure safe and correct use.

### ⚠ Precautions for Safety

Failure to follow the instructions below may cause a loss of life or serious physical injury.

1. During wiring or maintenance, please completely turn off the power of the product. (Failure to follow this may lead to an electric shock.)
2. Do not install the product in locations that subjects it to excessive dust or water other than the conditions designated by the IP protection ratings indicated for each product. (Failure to follow these instructions may cause a fire to the product, electric shock, physical injury, malfunction or damage to the product.)
3. Do not alter or repair this product. If maintenance or repair service is required, please contact your local Qlight contact point. (Failure to follow these instructions may lead to fire, electric shock, or product damage.)
4. Please apply the correct voltage to the product. (Failure to follow these instructions may lead to fire, electric shock, or product damage.)
5. When the product is applied to a condition that may impact lives or property, please make sure to have a double safety device. (Failure to follow this may cause damage to property, fire, electric shock and loss of life.)

### ⚠ Precautions for Correct Use

Failure to follow the proper instructions may cause damage to property, the product, or malfunction of the product that would void the warranty.

1. Please remove any objects that can interrupt ventilation around the product.
2. Please turn off the power of the product immediately if it fails to operate properly.
3. Carefully wire the product according to each product's specification.
4. Please be careful in preventing chemicals such as thinner, benzene, etc. in contact with the surface of the product.
5. Do not apply excessive force/impact to the product.
6. Failure to follow any of the instructions above may cause malfunction or damage to the product, fire, and electric shock.

### Ordering Specifications

QMCL125-WIZ	-	BZ	-	24
[Model number]		[Buzzer]		[Voltage]
• QMCL125-WIZ		• (Blank) - No buzzer type • BZ - Built-in buzzer type		• 12-DC12V • 24-DC24V

### Product Specifications

Model number	Voltage	Certificate	Weight	Color
QMCL125-WIZ	DC12V	CE FC	0.34kg	7 Color
	DC24V			

#### • Light source current(based on 1 layer)

Voltage	DC12V	DC24V
Light source current(1 layer)	0.300A	0.185A
Buzzer current	0.070A	0.040A

• Protection rating : IP65

• Ambient operating temperature : -30°C to +50°C



Please scan the QR code for more detailed product information.

[www.qlight.com](http://www.qlight.com)

## Components of wireless system

- Wireless LED Steady/Flashing Tower light has monitoring and controlling feature via PC that consists of USB DONGLE and GATEWAY.

Application Software	USB DONGLE	GATEWAY	ROUTER (wireless signaling device)
			

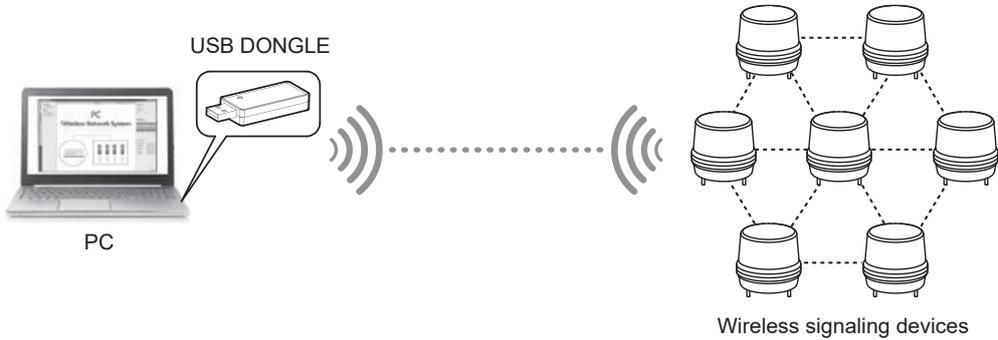
### ■ Description

No.	Item	Description
1	PC and mobile Application	PC Application would be a comprehensive control system by enabling the setting, monitoring, control and log analysis of the wireless signaling device. C# based application and software developer's API are provided. Mobile application can help to expand utility manager's coverage.
2	USB DONGLE (WIZ32)	USB DONGLE (WIZ32) can connect up to 32 wireless signaling device and is connected to the PC through a USB port in serial communication. It does not require a separate installation but simply insertion into a USB port for use. Note : USB DONGLE does NOT support Mobile application.
3	GATEWAY (GW768)	GATEWAY (GW768) can connect up to 32 wireless signaling device. Since it is possible to extend up to 24 GATEWAYs with a LAN ROUTER, they can connect up to 768 wireless signaling device. Note : GATEWAY supports Mobile application.
4	ROUTER (A wireless signal information device)	A wireless signaling device replaces an existing signaling device and converts the status data of production into wireless one so the control tower can control the status information of production equipment more easily and quickly. It functions to transmit (send) the status information of production equipment wirelessly and help the control tower control the wireless signaling device and send specified information to a worker.

# Components of wireless system

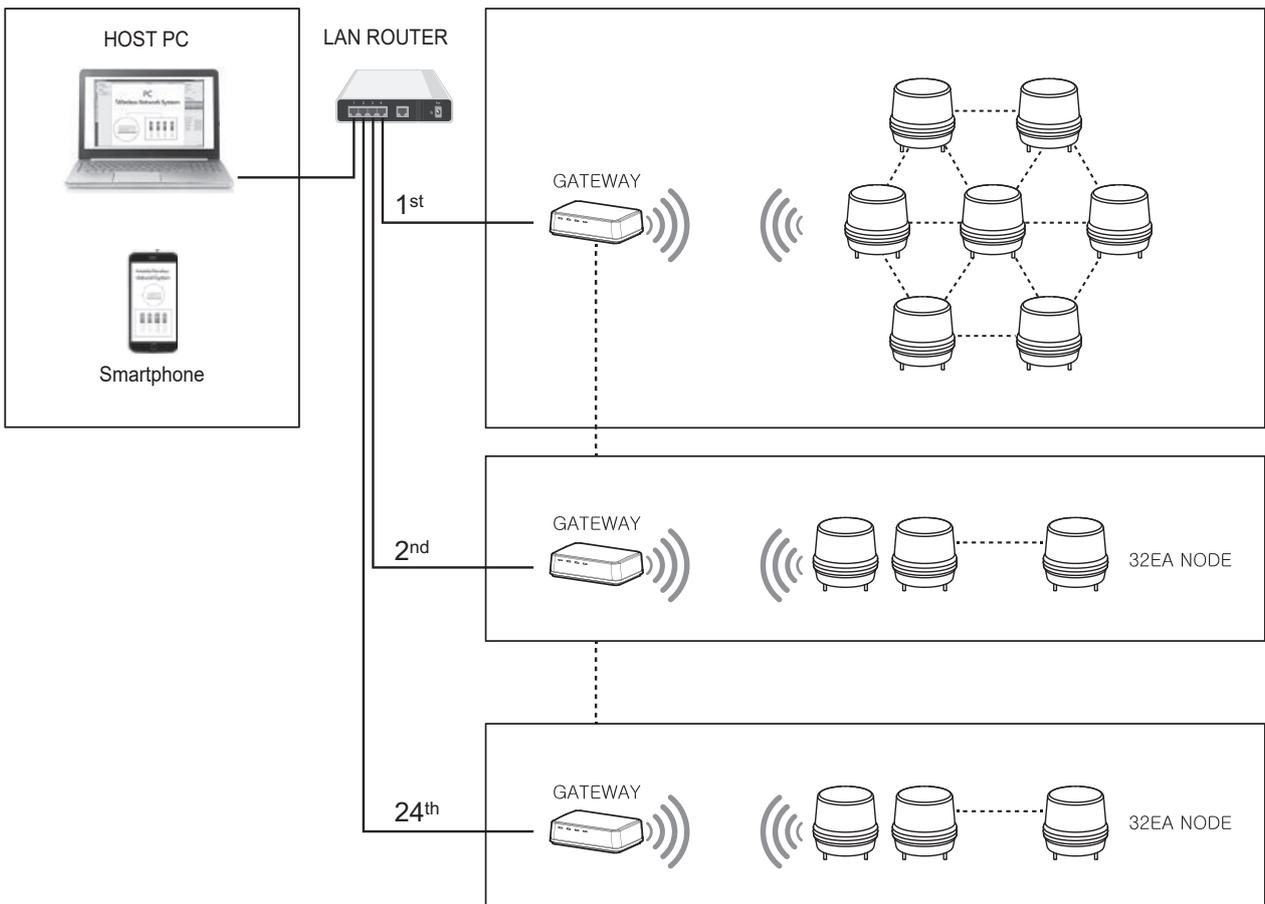
## 1. Connection through USB DONGLE

- USB DONGLE can be easily inserted in the PC and this is a method suitable for building a small-sized single wireless network (up to 32 wireless control display lamps can be connected).



## 2. Connection through GATEWAY

- Up to 768 wireless control indicators can be connected by adopting multiple GATEWAYS. This is suitable for large-scale business sites.
- Smart phone can monitor or control the status of signaling devices.



# Information of wireless system

## 1. ROUTER(Wireless Signaling Device)

- The status information of the production equipment can be recognized by using an external contact and the status information are transmitted to USB DONGLE or GATEWAY. ROUTER can receive control signal from USB DONGLE or GATEWAY.
- Please refer to wireless information table on the label of the product.



<ROUTER Wireless information table>

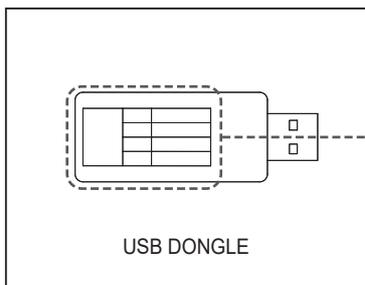
<b>ROUTER</b>	<b>NAME</b>	<b>QMCL125-WIZ</b>
	GROUP ID	1
	NODE ID	1101
	CHANNEL	11
	PAN ID	01

- ROUTER Wireless information table reference

ROUTER	NAME	Model name
	GROUP ID	<ul style="list-style-type: none"> <li>• Designated GROUP ID by customer. Possible to set 1 to 24 GROUPS.</li> <li>• It must be set as same as receiver(USB DONGLE, GATEWAY).</li> </ul>
	NODE ID	<ul style="list-style-type: none"> <li>• Designated NODE ID(Product ID) by customer. 32 ID's are available.</li> <li>• Referring 1101, 11 represents channel number. NODE ID configuration is related to the channel number. (recommended)</li> </ul>
	CHANNEL	<ul style="list-style-type: none"> <li>• Can select up-to 16 channels from 11 to 26. It must be configured same as receivers(GATEWAY and USB DONGLE).</li> </ul>
	PAN ID	<ul style="list-style-type: none"> <li>• PAN ID can be set from 0 to 65535. It is wireless network identifier as an unique customer's number and designated by manufacturer.</li> </ul>

## 2. USB DONGLE

- USB DONGLE is a wireless transmitter & receiver that is suitable for a small network with less than 32 wireless signaling devices.
- Please refer to wireless information table on the label of the product.



<USB DONGLE Wireless information table>

<b>USB DONGLE</b>	<b>NAME</b>	<b>WIZ32</b>
	GROUP ID	1
	CHANNEL	11
	PAN ID	01

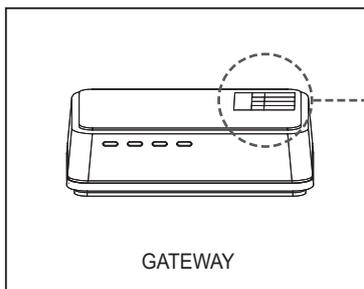
## Information of wireless system

### • USB DONGLE Wireless information table reference

USB DONGLE	NAME	Model name
	GROUP ID	<ul style="list-style-type: none"> <li>• Designated GROUP ID by customer. Possible to set 1 to 24 GROUPS.</li> <li>• Possible to use single unit per PC. GROUP ID must NOT be same as GATEWAY.</li> <li>• It must be set as same as ROUTER(Wireless Signaling Device).</li> </ul>
	CHANNEL	<ul style="list-style-type: none"> <li>• Can select up-to 16 channels from 11 to 26. It must be configured same as ROUTER(Wireless Signaling Device).</li> </ul>
	PAN ID	<ul style="list-style-type: none"> <li>• PAN ID can be set from 0 to 65535. It is wireless network identifier as an unique customer's number and designated by manufacturer.</li> </ul>

### 3. GATEWAY

- Suitable for large-scaled network over 32 wireless networks. One GATEWAY unit is a single group, can connect up to 24 groups.
- Support Smartphone Application
- Please refer to wireless information table on the label of the product.



<GATEWAY wireless information table>

<b>GATEWAY</b>	NAME	GW768
	MAC ADDR.	0.35.183.XXX.XXX.XXX
	GROUP ID	1
	CHANNEL	11
	PAN ID	01

### • GATEWAY Wireless information table reference

GATEWAY	NAME	Model name
	MAC ADDR.	<ul style="list-style-type: none"> <li>• MAC ADDRESS designated by manufacturer.</li> <li>• MAC ADDRESS is used to set IP address and network information by searching GATEWAY in the network.</li> </ul>
	GROUP ID	<ul style="list-style-type: none"> <li>• Designated GROUP ID by customer. Possible to set 1 to 24 GROUPS.</li> <li>• GROUP ID must NOT be same as USB DONGLE.</li> <li>• It must be set as same as ROUTER(Wireless Signaling Device).</li> </ul>
	CHANNEL	<ul style="list-style-type: none"> <li>• Can select up-to 16 channels from 11 to 26. It must be configured same as ROUTER(Wireless Signaling Device).</li> </ul>
	PAN ID	<ul style="list-style-type: none"> <li>• Pan ID can be set from 0 to 65535. It is wireless network identifier as an unique customer's number and designated by manufacturer.</li> </ul>

## Information of wireless system

### 4. Installation of PC Application

#### (1) SERIAL TO USB DRIVER installation

- There are two options of receiving & controlling the wireless signaling device such as USB DONGLE and USB interface with the GATEWAY. In both cases, 'USB to serial device driver' should be installed (download it from Qlight website or <http://blog.qlight.com>).
- Select x64 or x86 EXE. file depending on your OS type.
- Silicon Labs' drivers are provided as a device driver.

 x64	2020-03-10	11:25	
 x86	2020-03-10	11:25	
 CP210xVCPInstaller_x64	2017-09-28	2:58	1,026KB
 CP210xVCPInstaller_x86	2017-09-28	2:58	903KB
 dpinst	2017-09-28	2:45	12KB
 SLAB_License_Agreement_VCP_Windows	2017-09-28	2:46	9KB
 slabvcp	2017-10-11	2:52	11KB
 slabvcp	2017-10-11	2:52	15KB
 v6-7-5-driver-release-notes	2017-10-17	7:49	14KB

- After the installation completes, check if COM# Port is displayed in the Device Manager of PC before connecting the USB DONGLE or the GATEWAY through a USB PORT.
- COM# can vary depending on the PC environment.



#### (2) Installation of PC Application

- The PC application is used to monitor, set, and control the status information of a wireless signaling device.
- In case of using C# Library, please refer to the Library User Manual which is provided separately.
- Please download the PC Application from our website and install it.

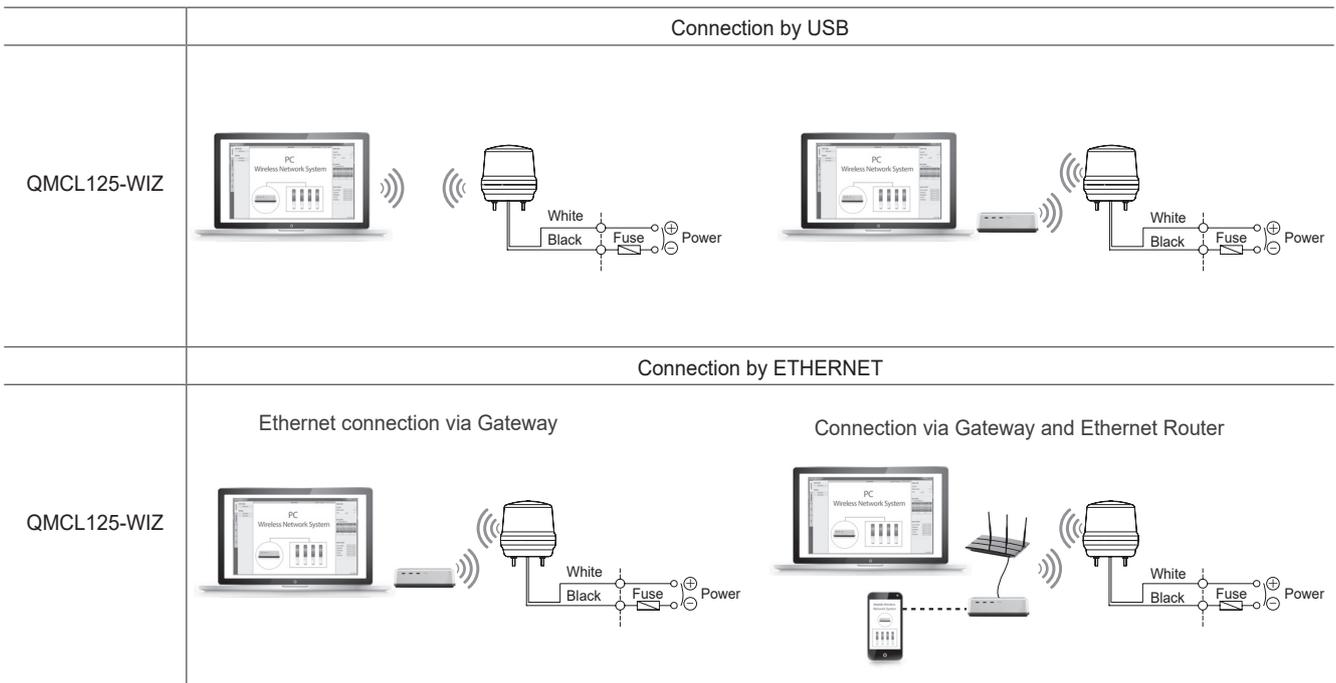
 QlightManagerv2.48 <= Please run .exe file. Software VERSION may be upgraded without notice.

\*\*For the installation instruction and usage, please refer to manual.

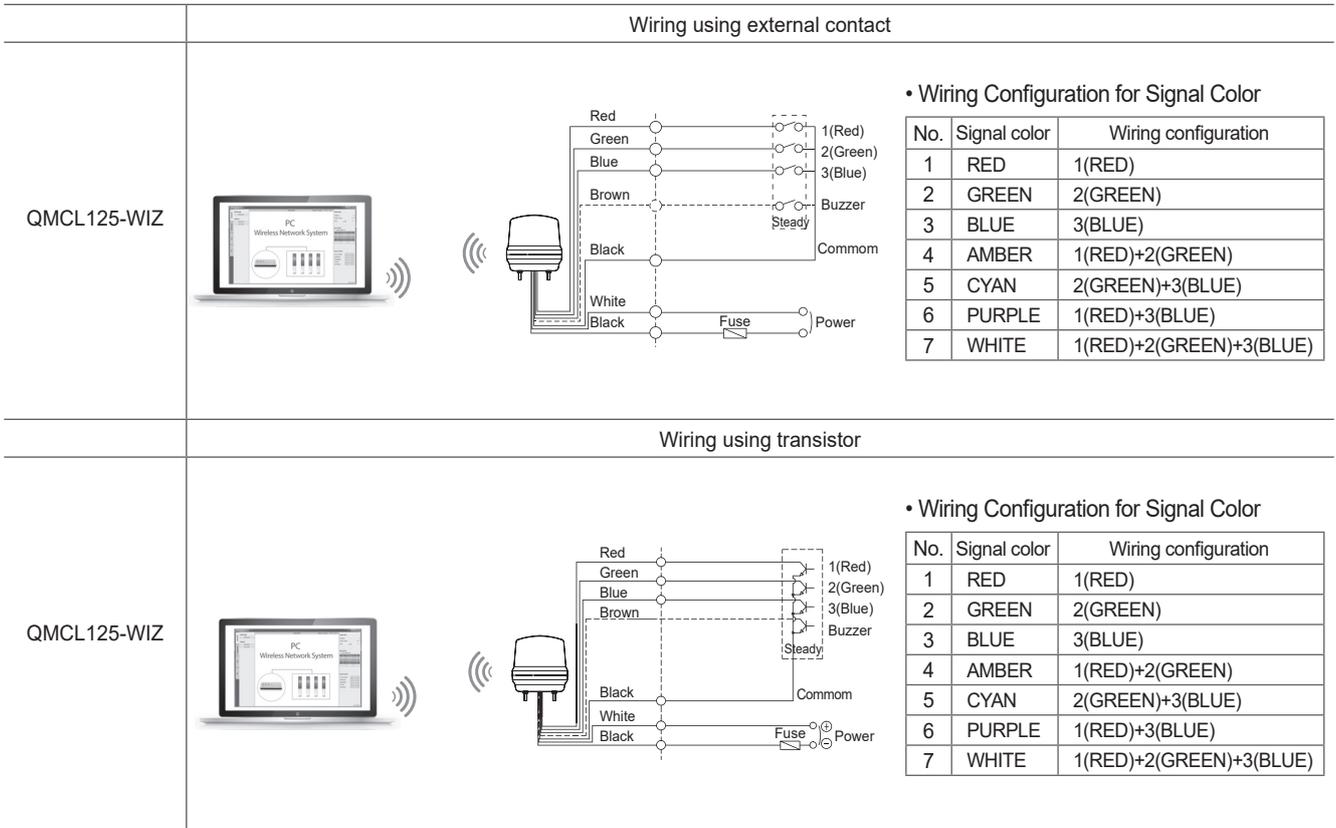
(3) For the usage of API using DLL, please refer to manual.

# Wiring Instructions

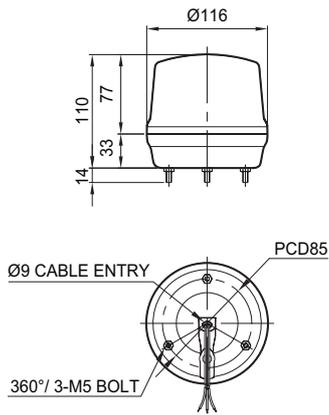
• Please wire the product as followings when you control via wireless network



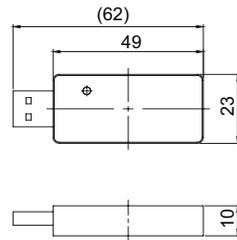
• Please refer to below wiring Instructions diagram to properly configure external contact and transistor options.



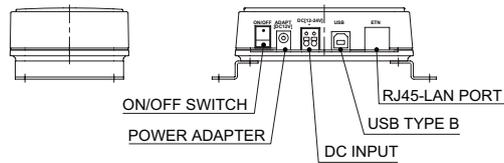
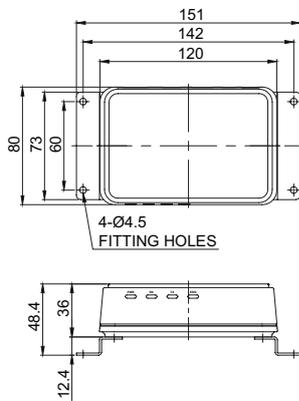
QMCL125-WIZ



WIZ32

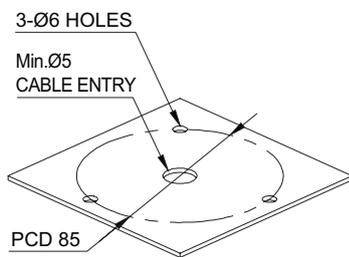


GW768

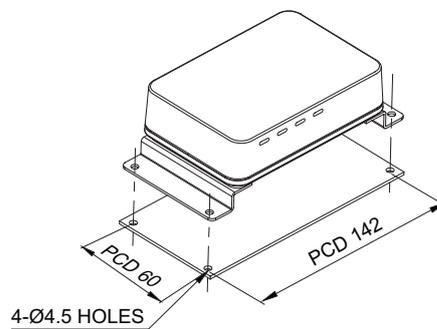


Mounting Hole Specifications

- Machine holes on the mounting surface referring to the diagram below.

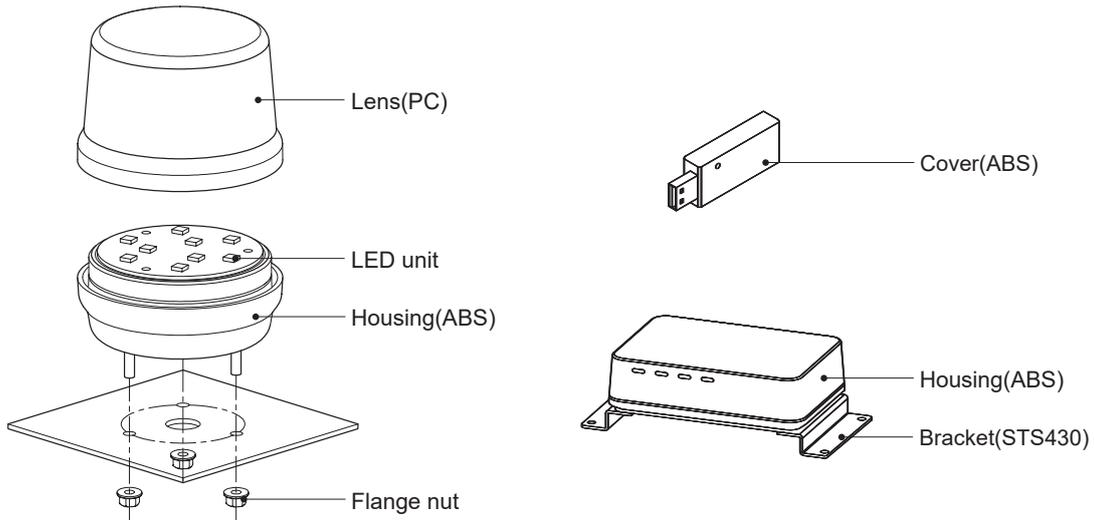


QMCL125-WIZ



GW768

## Parts Definition and Installation



- First, remove the flange nuts from bolts and place the product through the mounting surface holes.
- Fasten the flange nuts on the opposite side of the mounting surface until the product is tightened securely.

## Mounting Accessories (Sold Separately)

- Please refer to the dimensions below for installation of mounting brackets.

		Dimensions	
QMCL125-WIZ	<p style="text-align: center;">SWP125</p>	<p style="text-align: center;">SWM125</p>	

## Installation Environment and Protection Rating

- This product is designed for use with protection rating of IP65.
- If the product is installed in locations that subject it to excessive dust or water other than the designated IP protection rating indicated(IP65), it may cause malfunction or damage to the product.
- In case of outdoor applications, install the product in the upright position. Do not install the product horizontal or upside-down positions where water can potentially penetrate into the product and impact it's operation.
- For further information, please visit our website ([www.qlight.com](http://www.qlight.com)).

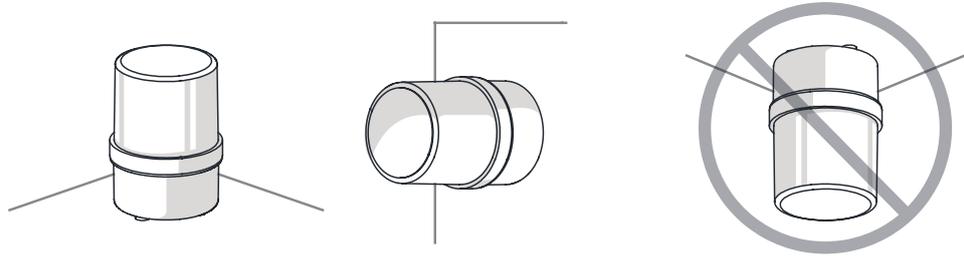
## Product installation direction

- Install the product in accordance with the manual. Otherwise rainwater or moisture may penetrate into the product.

### · BEACON/SIGNALING LIGHT

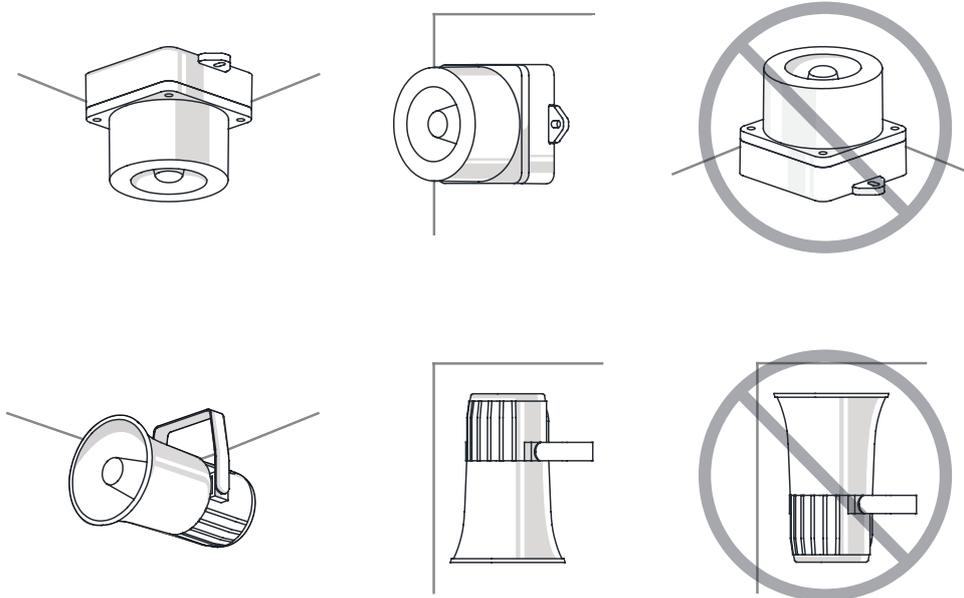
※ For products with a protection rating of less than IPX4, please install it vertically.

Power cord inlet part shall not be facing the sky.



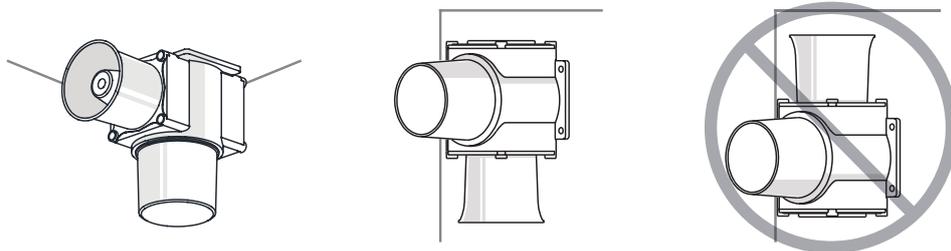
### · ELECTRONIC SOUNDER/SIGNAL HORN

Sounder part shall not be facing the sky.



### · HEAVY-DUTY & EXPLOSION PROOF SIGNALINGS

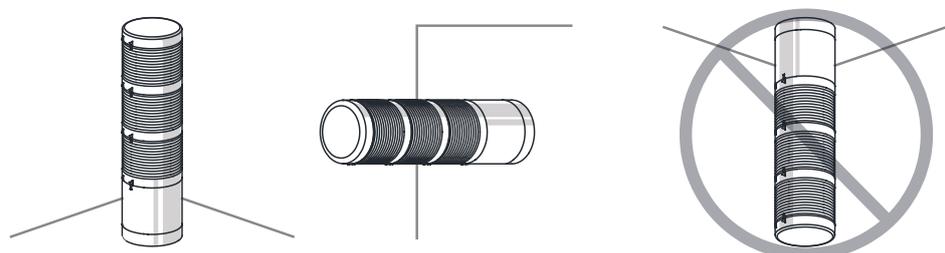
Sounder part shall not be facing the sky.



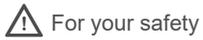
### · SIGNAL TOWER LIGHTS

※ For products with a protection rating of less than IPX4, please install it vertically.

Power cord inlet part shall not be facing the sky.







For your safety

Specification and dimensions listed in this catalogue subject to change without notice for product quality improvement.  
The newest product information is available on our website.(www.qlight.com)  
Please read the instruction manual attached to the product carefully before installation and use.

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You can expect prompt service if you have exact information such as model name, symptom, telephone number and address.

※ ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

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