Modular Multi-Functional LED Tower Lights

QT50(M)L series











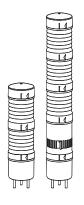








Thank you for purchasing Qlight's products. Please read this user manual carefully prior to installation and operation to ensure safe and correct use.



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

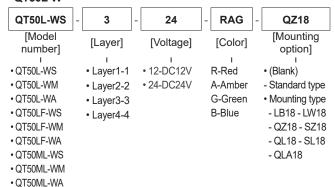
Failure to follow the proper instructions may cause damage to property, the product, or malfunction of the product that would void the warranty.

- 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.

• QT50L

QT50L 3 **RAG QZ18** 24 [Model [Mounting [Layer] [Voltage] [Color] number] option] • QT50L • 12-DC12V R-Red • Layer1-1 • (Blank) QT50LF • 24-DC24V A-Amber - Standard type · Layer2-2 QT50ML · Layer3-3 • 110-AC110V G-Green · Mounting type • QT50MLF • 220-AC220V B-Blue - LB18 - LW18 • Layer4-4 W-White - QZ18 - SZ18 · Layer5-5 - QL18 - SL18 - QLA18

• QT50L-W



• QT50L-BZ

QT50L-BZ	- 3	24	- RAG	- QZ18
[Model number]	[Layer]	[Voltage]	[Color]	[Mounting option]
1 -	I	I	I	· 1
 QT50L-BZ 	Layer1-1	• 12-DC12V	R-Red	• (Blank)
 QT50LF-BZ 	Layer2-2	 24-DC24V 	A-Amber	 Standard type
 QT50ML-BZ 	 Layer3-3 	• 110-AC110V	G-Green	 Mounting type
 QT50MLF-BZ 	Layer4-4	• 220-AC220V	B-Blue	- LB18 - LW18
	•			- QZ18 - SZ18
				- QL18 - SL18
				- QLA18



Please scan the QR code for more detailed product information.

www.qlight.com

QT50MLF-WSQT50MLF-WMQT50MLF-WA

Product Specifications

• QT50L

Model number	Layer	Voltage	Current	Certificate	Weight	Color	
		DC12V	0.090A		0.25kg		
	1	DC24V	0.050A		0.25kg	R-Red	
	'	AC110V	0.020A		0.26kg	IX-IXEU	
		AC220V	0.020A		0.26kg		
		DC12V	0.180A		0.30kg		
	2	DC24V	0.100A		0.30kg	R-Red	
		AC110V	0.040A		0.31kg	G-Green	
		AC220V	0.040A		0.31kg		
	3	DC12V	0.270A		0.34kg	R-Red A-Amber G-Green	
QT50L		DC24V	0.150A	C€	0.34kg		
QT50LF		AC110V	0.060A		0.35kg		
		AC220V	0.060A		0.35kg		
		DC12V	0.360A		0.38kg	R-Red	
		DC24V	0.200A		0.38kg	A-Amber	
		AC110V	0.080A		0.39kg	G-Green	
		AC220V	0.080A		0.39kg	B-Blue	
	5	DC12V	0.450A		0.43kg	R-Red	
		DC24V	0.250A		0.43kg	A-Amber G-Green	
		AC110V	0.100A		0.44kg	B-Blue	
		AC220V	0.100A		0.44kg	W-White	

* CE compliant : DC24V, AC220V

• QT50L-BZ

Model number	Layer	Voltage	Current	Certificate	Weight	Color
QT50L-BZ QT50LF-BZ (Max. 90dB)	1	DC12V DC24V AC110V AC220V	0.105A 0.080A 0.110A 0.110A		0.32kg 0.32kg 0.33kg 0.33kg	R-Red
	-BZ	DC12V DC24V AC110V AC220V	0.195A 0.130A 0.130A 0.130A		0.37kg 0.37kg 0.38kg 0.38kg	R-Red G-Green
		DC12V DC24V AC110V AC220V	0.285A 0.180A 0.150A 0.150A	(€	0.41kg 0.41kg 0.42kg 0.42kg	R-Red A-Amber G-Green
		DC12V DC24V AC110V AC220V	0.375A 0.230A 0.170A 0.170A		0.45kg 0.45kg 0.46kg 0.46kg	R-Red A-Amber G-Green B-Blue

* CE compliant : DC24V, AC220V

• QT50ML

Model number	Layer	Voltage	Current	Certificate	Weight	Color
		DC12V	0.090A		0.10kg	
	1	DC24V	0.050A		0.10kg	R-Red
	'	AC110V	0.020A		0.11kg	IX-IXEU
		AC220V	0.020A		0.11kg	
		DC12V	0.180A		0.14kg	
	2	DC24V	0.100A		0.14kg	R-Red
	2	AC110V	0.040A		0.15kg	G-Green
		AC220V	0.040A		0.15kg	
	3	DC12V	0.270A	C€	0.19kg	
QT50ML		DC24V	0.150A		0.19kg	R-Red
QT50MLF		AC110V	0.060A		0.20kg	A-Amber G-Green
		AC220V	0.060A		0.20kg	O Groom
	4	DC12V	0.360A		0.23kg	R-Red
		DC24V	0.200A		0.23kg	A-Amber
		AC110V	0.080A		0.24kg	G-Green
		AC220V	0.080A		0.24kg	B-Blue
	5	DC12V	0.450A		0.27kg	R-Red
		DC24V	0.250A		0.27kg	A-Amber
		AC110V	0.100A		0.28kg	G-Green B-Blue
		AC220V	0.100A		0.28kg	W-White

* CE compliant : DC24V, AC220V

• QT50ML-BZ

Model number	Layer	Voltage	Current	Certificate	Weight	Color
	1	DC12V DC24V AC110V AC220V	0.105A 0.080A 0.110A 0.110A		0.17kg 0.17kg 0.18kg 0.18kg	R-Red
QT50ML-BZ	2	DC12V DC24V AC110V AC220V	0.195A 0.130A 0.130A 0.130A	C€	0.21kg 0.21kg 0.22kg 0.22kg	R-Red G-Green
QT50MLF-BZ (Max. 90dB)	3	DC12V DC24V AC110V AC220V	0.285A 0.180A 0.150A 0.150A		0.25kg 0.25kg 0.26kg 0.26kg	R-Red A-Amber G-Green
	4	DC12V DC24V AC110V AC220V	0.375A 0.230A 0.170A 0.170A		0.30kg 0.30kg 0.31kg 0.31kg	R-Red A-Amber G-Green B-Blue

* CE compliant : DC24V, AC220V

• QT50L-W

Q I JUL-VV							
Model number	Layer	Sound pattern and volume	Voltage	Current	Certificate	Weight	Color
1	4		DC12V	0.310A		0.401	R-Red
		DC24V	0.180A		0.42kg	r-red	
	2] [DC12V	0.400A		0.46kg	R-Red
QT50L-WS	T50L-WS	WS-5 Warning	DC24V	0.230A			G-Green
QT50L-WM QT50L-WA QT50LF-WS QT50LF-WM QT50LF-WA	Sounds WM-5 Melodies WA-5 Alarms	DC12V	0.490A	C€	0.50kg	R-Red A-Amber	
	(Max.85dB)	DC24V	0.280A		0.50kg	G-Green	
	4	DC12V	0.580A		0.541	R-Red A-Amber	
	4		DC24V		0.330A	0.54kg	G-Green B-Blue

• QT50ML-W

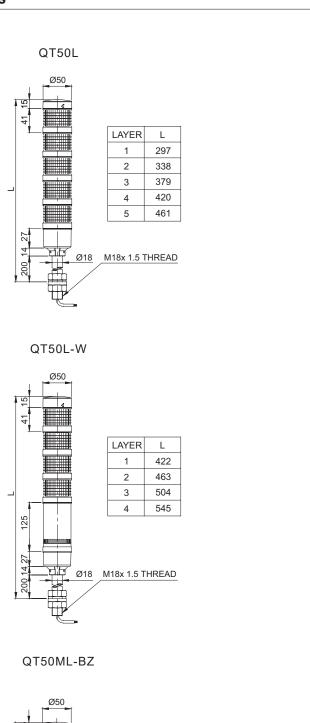
Model number	Layer	Sound pattern and volume	Voltage	Current	Certificate	Weight	Color
1 2 2 2	4		DC12V	0.310A		0.071	D.D. 1
		DC24V	0.180A		0.27kg	R-Red	
	WS-5 Warning	DC12V	0.400A			R-Red G-Green	
		DC24V	0.230A				
	2	Sounds WM-5 Melodies	DC12V	0.490A	C€	0.30kg	R-Red
	WA-5 Alarms (Max.85dB)	DC24V	0.280A		U.SUKY	A-Amber G-Green	
	4	,	DC12V	0.580A		0.2204	R-Red A-Amber
	4		DC24V	0.330A		0.32kg	G-Green B-Blue

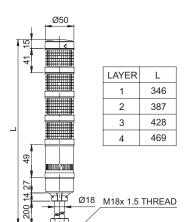
* CE compliant : DC24V only

• Protection rating : IP65(QT50L, QT50ML) IP54(QT50L-BZ, QT50ML-BZ, QT50L-W, QT50ML-W)

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

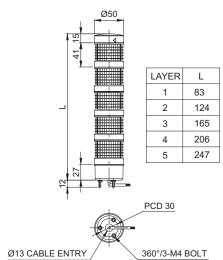
Dimensions (Units: mm)



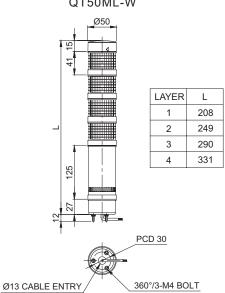


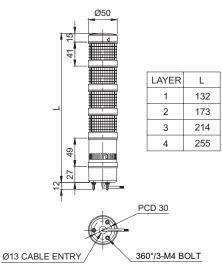
QT50L-BZ







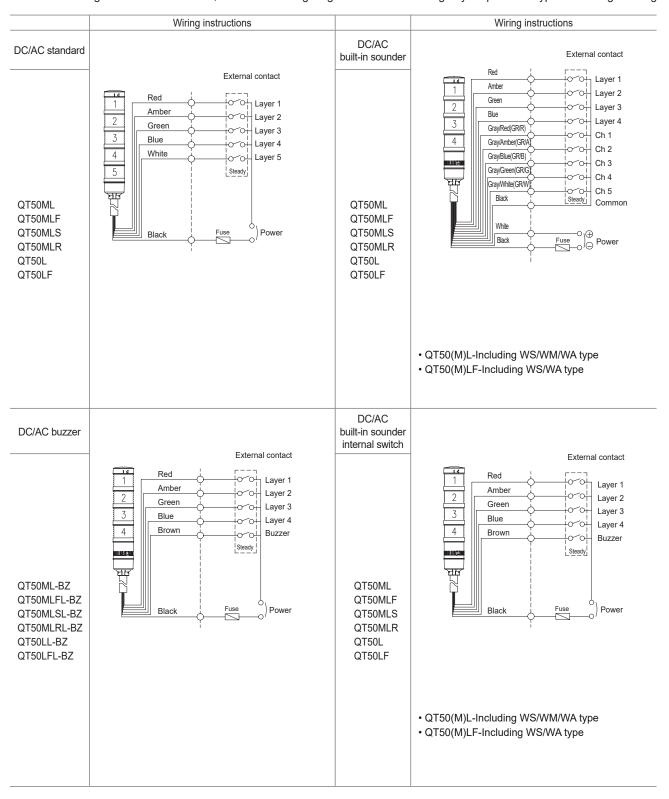




Wiring Instructions

■ Wiring using external contact

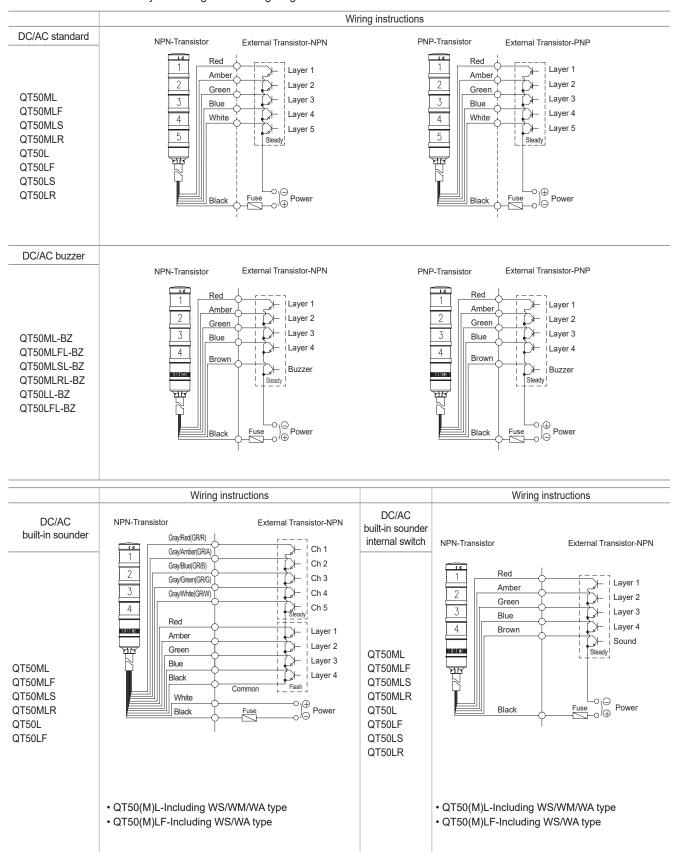
· In case of wiring with external contacts, refer to the wiring diagrams below according to your product's type and voltage setting.



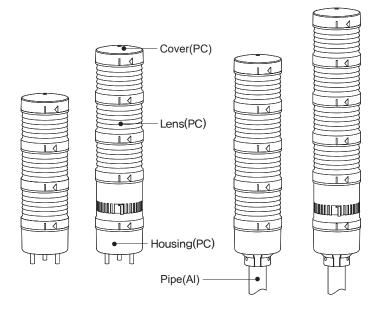
- DC steady type cable specification: External power/ signal line UL1007 AWG22(0.3sq) 400mm.
- AC steady, AC/DC steady/flashing type cable specification : External power line UL1015 AWG18(0.75sq) × 2C 400mm, External signal line UL1007 AWG22(0.3sq) 400mm

■ Wiring using transistor

• When using a transistor, please choose between the NPN or PNP type transistor which best matches the voltage and product type, then connect them correctly according to the wiring diagrams below.

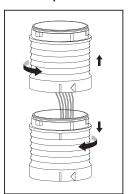


- DC steady type cable specification: External power/ signal line UL1007 AWG22(0.3sq) 400mm.
- AC steady, AC/DC steady/flashing type cable specification : External power line UL1015 AWG18(0.75sq) × 2C 400mm, External signal line UL1007 AWG22(0.3sq) 400mm

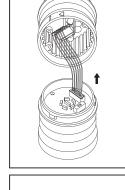


How to replace the module / Light Function Selection

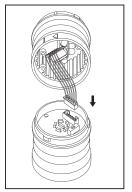
■ How to replace the module



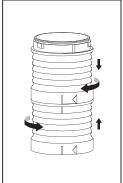
- Disassembling the module
- Twist the upper module kit in a counterclockwise direction so the "[]" mark from both kits align.
- ② Disassemble by removing the upper module kit from the lower one.



- How to disassemble the connector
- Disassemble the connector of the upper lens and the connector of the lower lens in the direction of the arrow.

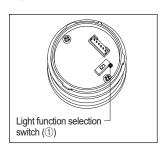


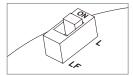
- How to assemble the connector
- ① Assemble the connector of the upper lens and the connector of the lower lens in the direction of the arrow.



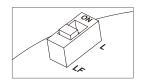
- Assembling the module
- ① Put the two module together by aligning the upper module' "[" mark and the lower module' "[" mark together.
- ② Lock the two kits by twisting the upper module kit in a clock wise direction so the upper module' "¬ mark aligns with the lower module' "□" mark.

■ Light function selection





▶L : Steady

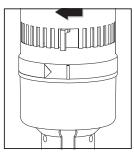


▶LF : Flashing

- Please refer to the instruction below to use light function selection switch(①) located inside the product.
- Default function is set at steady LED.
 Select the desired function for your application during installation.

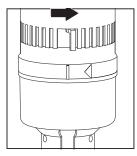
Buzzer Volume Adjustment Instructions

* Built-in sounder type can't control the sound volume.



Buzzer volume is reduced by sliding the volume control lever to the left as show in the diagram.

(Min. 65±4dB/m)

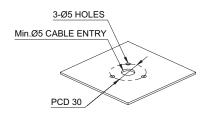


Raise/ Increase the buzzer volume by sliding the control lever to the right as shown in the diagram.

(Max. 85±4dB/m)

Mounting Hole Specifications

① Machine holes on the mounting surface referring to the diagram below.



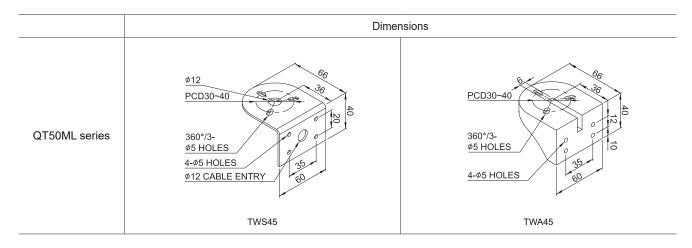
- ② Remove the flange nuts from bolts and place the product through the mounting surface holes.
- ③ Fasten the flange nuts on the opposite side of the mounting surface until the product is tightened securely.

Installation Environment and Protection Rating

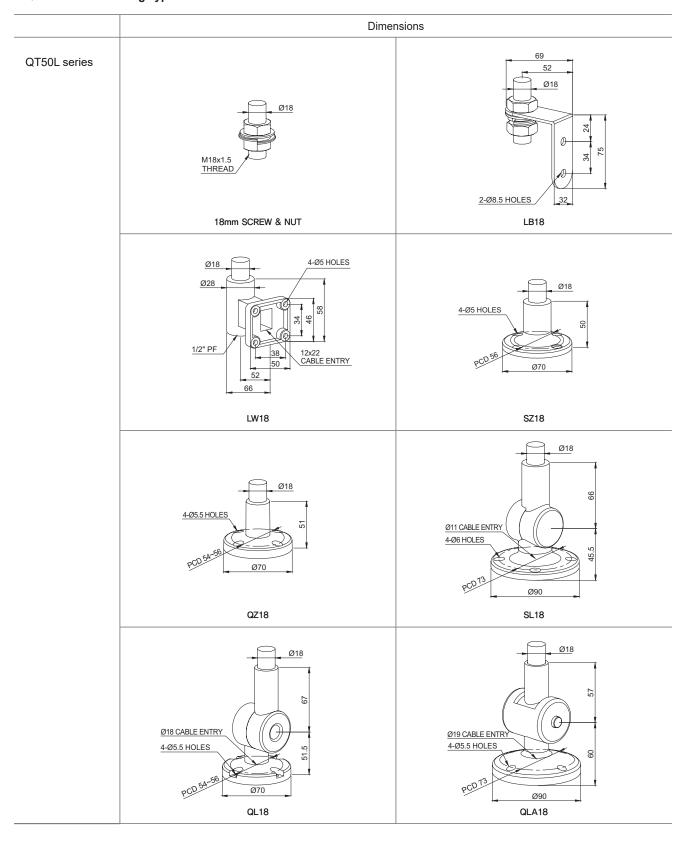
- This product is designed for indoor use with protection rating of IP65(standard type) or IP54(buzzer type).
- If the product is installed in locations that subject it to excessive dust or water other than the designated IP protection rating indicated, it may cause malfunction or damage to the product.
- For further information, please visit our website (www.qlight.com).

Mounting Accessories (Sold Separately)

- Please refer to the dimensions below for installation of mounting brackets
- QT50ML/ QT50MLF Direct Mounting Type Model



■ QT50L- Pole Mounting Type Model



• 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.



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

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



KCs Explosion Proof Device Safety Certification System

The safety performance of machines and equipment subject to safety certification and Technical capability and production system have been certified safety certification standards.



CCS China Classification Society

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



LR Lloyd's Register

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



KC Korea Safety Certification

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



ICAO International Civil Aviation Organization

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



UL Underwriters Laboratories

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



CCC China Compulsory Certificate

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



RoHS2 Restriction of Hazardous Substances Directive

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



IECEx International Explosion Proof Certification (IECEx)

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



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)



TIIS Japan Explosion-proof Certification

TIIS is a Japanes explosion proof test and certification system accordance with the Ministry of Health, Labour and Welfare Notice and the explosion proof guidelines for factory electrical equipment. Qlight's explosion proof products hasve been tested and certified by TIIS.



RMRS Russian Maritime Register of Shipping

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



KR Korean Register of Shipping

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



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)



KCC Conformity Assessment of Broadcasting Communication Equipment

Qlight has been certified to protect the electromagnetic environment that causes unwanted electromagnetic waves from the device, communication failure due to other devices or external radio waves, and malfunction of the device.



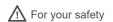
CCCF China Certification Center for Security & Protection

Qlight has passed the rigorous examination process of "Passing Fire Protection Products Centering" In order to sell fire-fighting products such as fire alarm equipment to Chinese market



CE European Commission

Qlight has been certified by the European Commission



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.

Qlight Co., Ltd. www.qlight.com | trade@qlight.com

Head Office | Suite #1510, STX-V Tower, 128 Gasan digital 1-ro, Geumcheon-gu, Seoul, Korea

Tel. +82-2-2679-6152(Toll free. +82-80-328-2222) Fax. +82-2-2679-6154

Factory | 185-25, Mukbang-ro, Sangdong-myeon, Gimhae-si, Gyeongsangnamdo, Korea Tel. +82-55-328-1111(Toll free. +82-80-328-1111)

Qlight OverSEAs Sales Dept | 704 Nakdong-daero, Sasang-gu, Busan, Korea(Eomgung-Dong) Tel: +82-51-620-4100

Qlight Public Relations & Marketing Team Office | 704 Nakdong-daero, Sasang-gu, Busan, Korea(Eomgung-Dong) Tel. +82-51-245-0017

$Qlight\ USA,\ Inc.\quad www.qlight.com\ \ www.qlightusa.com\ |\ sales@qlightusa.com\ |$

3003 North First Street, Suite #341, San Jose, CA 95134 USA Tel. +1-408-519-5740 Fax. +1-408-519-5739

$SHANGHAI\ Qlight\ Electronic\ Co.,\ Ltd.\ www.qlight.com\ \ www.qlightcn.com\ |\ qlightcn@qlight.com$

China Factory/ Shanghai Sales Office | #19, Nanda Road, Baoshan Area, Shanghai, China Tel. +86-21-6651-7100 Fax. +86-21-6315-3929 China Factory Site 2 (Qidong) | #33, Haiyan Road, Qidong High-tech Industrial Development Zone, Qidong, Jiangsu Province, China Tel +86-513-8384-9999 Fax +86-513-8384-9910



Product Operation Inquiry / Customer Support +82-51-620-4100

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

RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Head office: Suite #1510, STX-V Tower, 128 Gasan digital 1-ro, Geumcheon-gu, Seoul, Korea (Postal Code: 08507)

Factory: 185-25, Mukbang-Ro, Sangdong-Myeon, Gimhae-Si, Gyeongsangnam-Do, Korea (Postal Code: 50805)

www.qlight.com