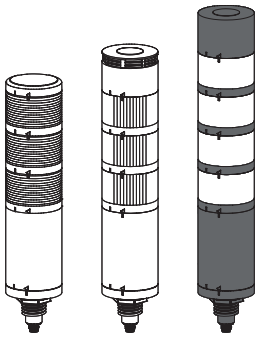
Programmable LED Tower Lamp with IO-Link Technology

QTG/QTC/QTR-IOL Series



IP65 | -30~+50℃ | BUZZER | 85dB | NPN | PNP | RoHS2

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

QTG/QTC/QTR60/70L-IOL	-	5	-	24	-	RAGBW	-	LB32
[Model number]		[Layer count]		[Voltage]		[Color]		[Bracket]
• QTG60L-IOL • QTC60L-IOL • QTR60L-IOL • QTG70L-IOL • QTC70L-IOL • QTR70L-IOL		• 1-1 Layer • 2-2 Layers • 3-3 Layers • 4-4 Layers • 5-5 Layers		• 24-DC24V		R-Red A-Amber G-Green B-Blue W-White		• None-Standard • Bracket-LB32

QTG/QTC/QTR60/70L-IOL	-	HBZ	-	3	-	24	-	RAG	-	LB32
[Model number]		[BUZZER]		[Layer count]		[Voltage]		[Color]		[Bracket]
• QTG60L-IOL • QTC60L-IOL • QTR60L-IOL • QTG70L-IOL • QTC70L-IOL • QTR70L-IOL		• HBZ - High-volume buzzer • WBZ -Waterproof buzzer		• 1-1Layer • 2-2Layers • 3-3Layers • 4-4Layers • 5-5Layers(Excluding HBZ, WBZ)		• 24-DC24V		R-Red A-Amber G-Green B-Blue W-White		• None -Standard • Bracket -LB32

Please scan the QR code for more detailed product information.

www.qlight.com

Product Specifications

• QTG/QTC/QTR60L-IOL

Model number	Layer count	Voltage	Certificate	Weight	Color
QTG60L-IOL QTC60L-IOL QTR60L-IOL	1	DC24V	IO-Link CE UL	0.25kg	R-Red
	2			0.33kg	R-Red G-Green
	3			0.41kg	R-Red A-Amber G-Green
	4			0.49kg	R-Red A-Amber G-Green B-Blue
	5			0.57kg	R-Red A-Amber G-Green B-Blue W-White

Light source/buzzer current(based on 1 layer)	
Voltage condition	DC24V
Light source current (1 layer)	70mA

• QTG/QTC/QTR70L-IOL

Model number	Layer count	Voltage	Certificate	Weight	Color
QTG70L-IOL QTC70L-IOL QTR70L-IOL	1	DC24V	IO-Link CE UL	0.37kg	R-Red
	2			0.52kg	R-Red G-Green
	3			0.67kg	R-Red A-Amber G-Green
	4			0.82kg	R-Red A-Amber G-Green B-Blue
	5			0.97kg	R-Red A-Amber G-Green B-Blue W-White

Light source/buzzer current(based on 1 layer)	
Voltage condition	DC24V
Light source current (1 layer)	70mA

• QTG/QTC/QTR60L-IOL-HBZ

Model number	Layer count	Voltage	Certificate	Weight	Color
QTG60L-IOL-HBZ QTC60L-IOL-HBZ QTR60L-IOL-HBZ	1	DC24V	IO-Link CE UL	0.30kg	R-Red
	2			0.38kg	R-Red G-Green
	3			0.46kg	R-Red A-Amber G-Green
	4			0.54kg	R-Red A-Amber G-Green B-Blue

Light source/buzzer current(based on 1 layer)	
Voltage condition	DC24V
Light source current (1 layer)	70mA
High volume buzzer current	90mA

• QTG/QTC/QTR70L-IOL-HBZ

Model number	Layer count	Voltage	Certificate	Weight	Color
QTG70L-IOL-HBZ QTC70L-IOL-HBZ QTR70L-IOL-HBZ	1	DC24V	IO-Link CE UL	0.43kg	R-Red
	2			0.58kg	R-Red G-Green
	3			0.73kg	R-Red A-Amber G-Green
	4			0.88kg	R-Red A-Amber G-Green B-Blue

Light source/buzzer current(based on 1 layer)	
Voltage condition	DC24V
Light source current (1 layer)	70mA
High volume buzzer current	90mA

• QTG/QTC/QTR60L-IOL-WBZ

Model number	Layer count	Voltage	Certificate	Weight	Color
QTG60L-IOL-WBZ QTC60L-IOL-WBZ QTR60L-IOL-WBZ	1	DC24V	IO-Link CE UL	0.30kg	R-Red
	2			0.38kg	R-Red G-Green
	3			0.46kg	R-Red A-Amber G-Green
	4			0.54kg	R-Red A-Amber G-Green B-Blue

Light source/buzzer current(based on 1 layer)	
Voltage condition	DC24V
Light source current (1 layer)	70mA
Waterproof buzzer current	90mA

• QTG/QTC/QTR70L-IOL-WBZ

Model number	Layer count	Voltage	Certificate	Weight	Color
QTG70L-IOL-WBZ QTC70L-IOL-WBZ QTR70L-IOL-WBZ	1	DC24V	IO-Link CE UL	0.43kg	R-Red
	2			0.58kg	R-Red G-Green
	3			0.73kg	R-Red A-Amber G-Green
	4			0.88kg	R-Red A-Amber G-Green B-Blue

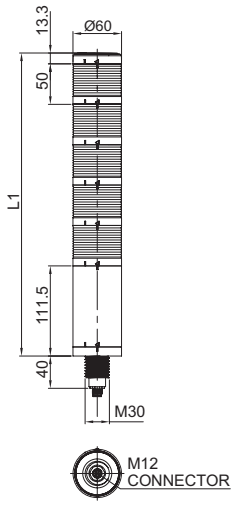
Light source/buzzer current(based on 1 layer)	
Voltage condition	DC24V
Light source current (1 layer)	70mA
Waterproof buzzer current	90mA

Dimensions

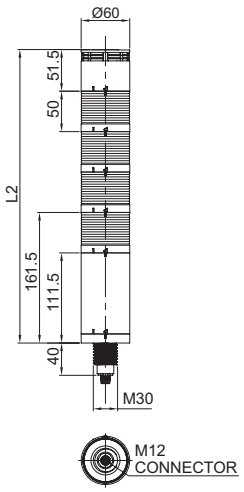
(Units : mm)

• QTG/QTC/QTR(60/70)L-IOL Series

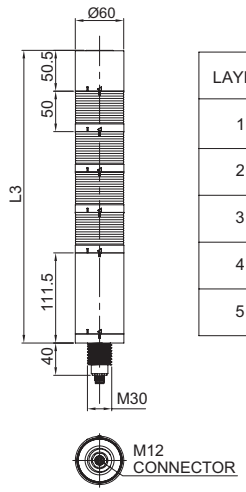
·QTG60L-IOL



·QTG60L-IOL-HBZ

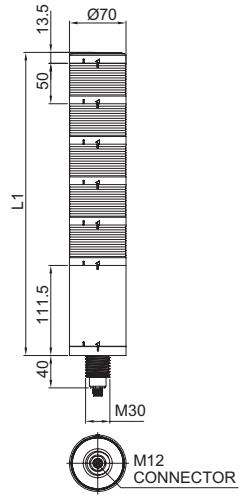


·QTG60L-IOL-WBZ

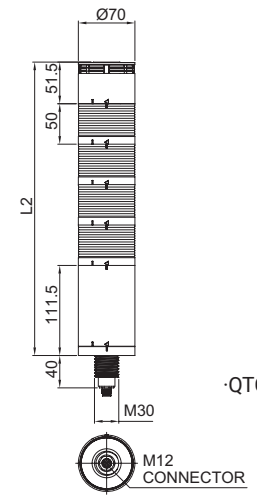


LAYER	L1	L2	L3
1	175	213	212
2	225	263	262
3	275	313	312
4	325	363	362
5	375	-	-

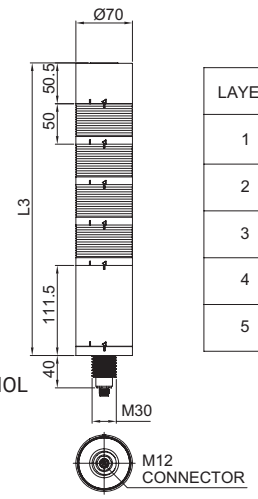
·QTG70L-IOL



·QTG70L-IOL-HBZ

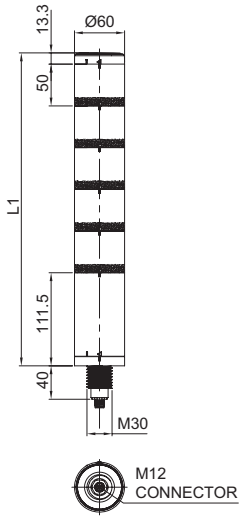


·QTG70L-IOL-WBZ

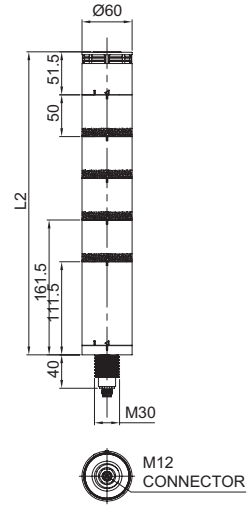


LAYER	L1	L2	L3
1	175	213	212
2	225	263	262
3	275	313	312
4	325	363	362
5	375	-	-

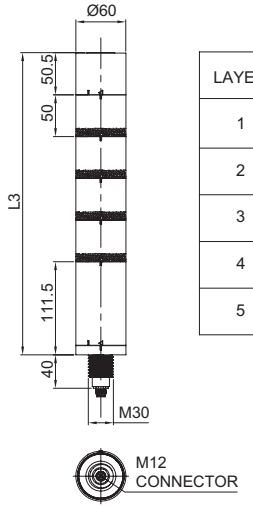
·QTC60L-IOL



·QTC60L-IOL-HBZ



·QTC60L-IOL-WBZ

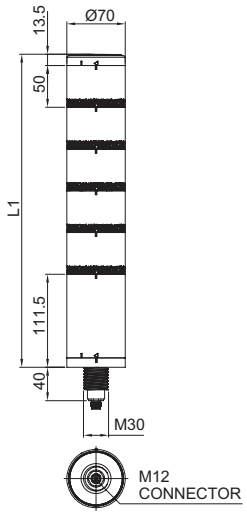


LAYER	L1	L2	L3
1	175	213	212
2	225	263	262
3	275	313	312
4	325	363	362
5	375	-	-

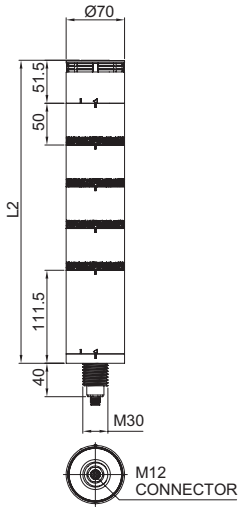
Dimensions

(Units : mm)

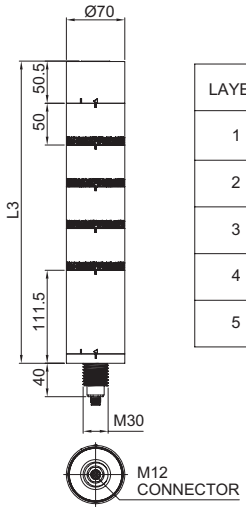
·QTC70L-IOL



·QTC70L-IOL-HBZ

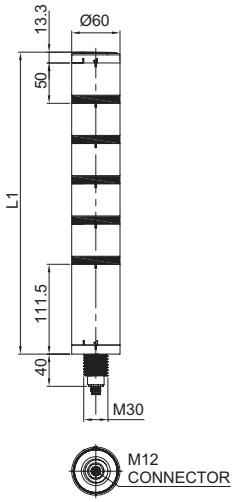


·QTC70L-IOL-WBZ

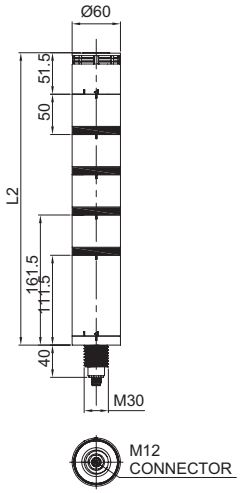


LAYER	L1	L2	L3
1	175	213	212
2	225	263	262
3	275	313	312
4	325	363	362
5	375	-	-

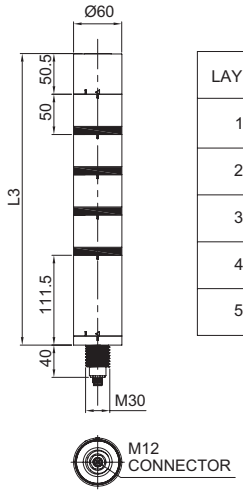
·QTR60L-IOL



·QTR60L-IOL-HBZ

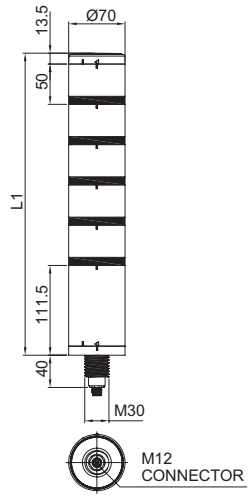


·QTR60L-IOL-WBZ

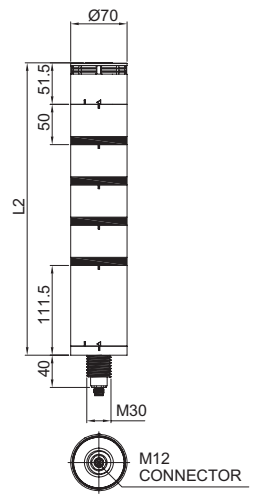


LAYER	L1	L2	L3
1	175	213	212
2	225	263	262
3	275	313	312
4	325	363	362
5	375	-	-

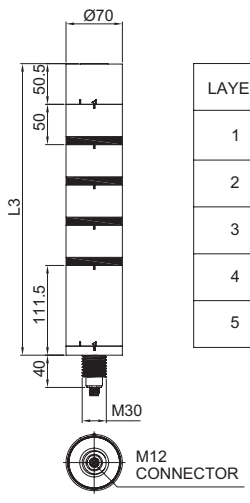
·QTR70L-IOL



·QTR70L-IOL-HBZ



·QTR70L-IOL-WBZ

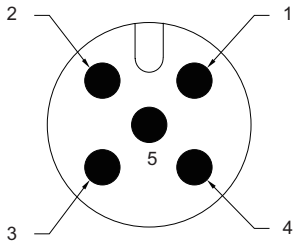


LAYER	L1	L2	L3
1	175	213	212
2	225	263	262
3	275	313	312
4	325	363	362
5	375	-	-

Wiring Instructions

■ Wiring diagrams(In case of M12 connector type model)

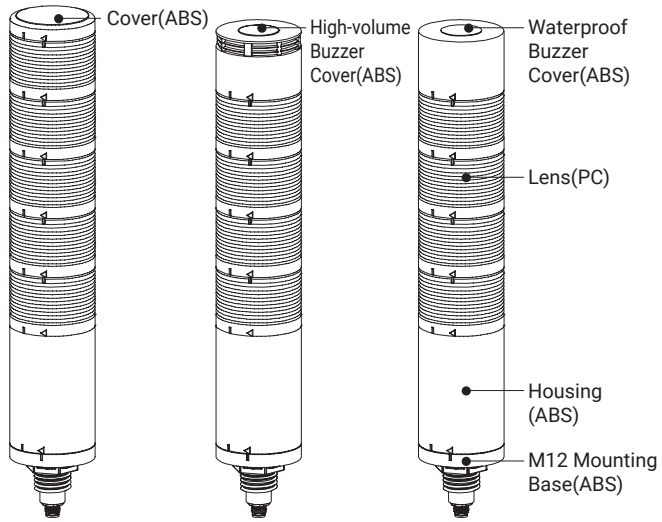
- M12 connector module can be supplied DC type only.
- Please follow the IO-Link M12 wiring standard.

	M12 connaector PIN-MAP
QTG60L-IOL QTC60L-IOL QTR60L-IOL QTG70L-IOL QTC70L-IOL QTR70L-IOL	

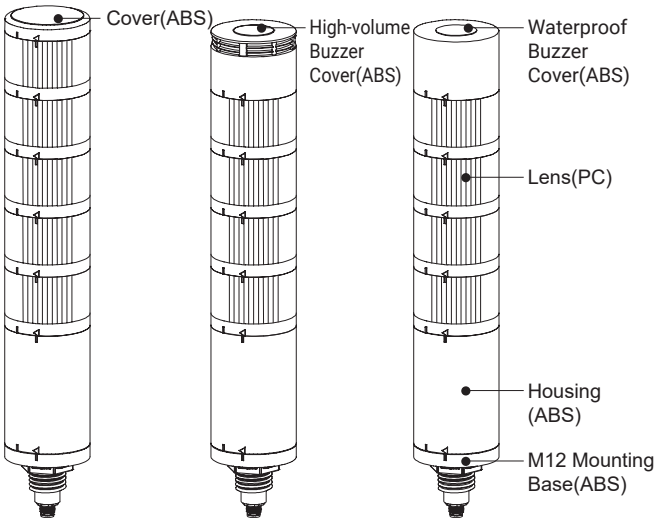
PIN	DESCRIPTION
1	Brown(L+)
2	White(NC)
3	Light Blue(L-)
4	Black(C/Q)
5	Gray(NC)

Parts Definition

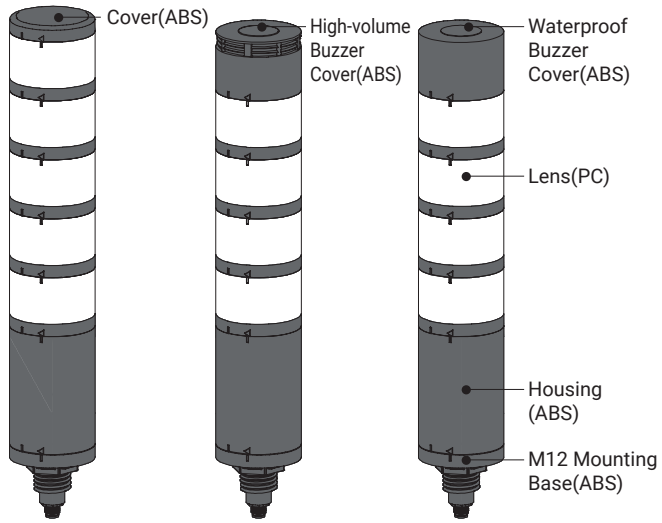
• QTG60/70L-IOL Series



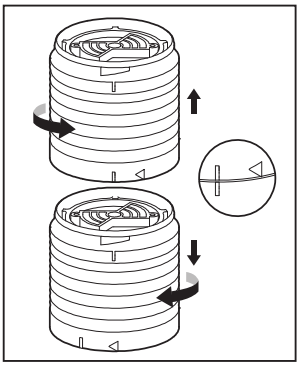
• QTC60/70L-IOL Series



• QTR60/70L-IOL Series



How to Change Lens Kit

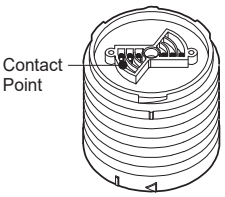


• Disassembling lens kits

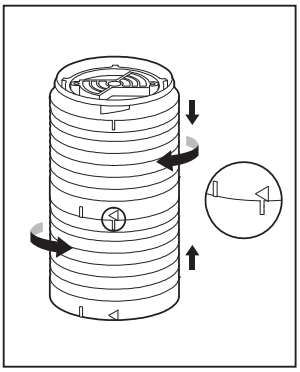
① Twist the upper lens kit in a counter-wise direction so the "I" mark from both kits align.

② Disassemble by removing the upper lens kit from the lower one.

※Cautions



Lens modules are connected through cone-shaped contact point. In case the contact point is damaged, it may cause a contact failure.



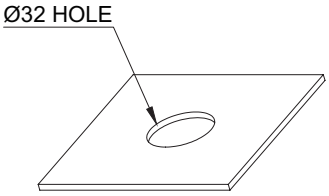
• Assembling lens kits

① Put the two lens kits together by aligning the upper lens' "I" mark and the lower lens' "I" mark together.

② Lock the two kits by twisting the upper lens kit in a counter-wise direction so the upper lens' "◁" mark aligns with the lower lens' "I" mark.

Mounting Hole Specifications

■ QTG/QTC/QTR(60/70)L-IOL Series

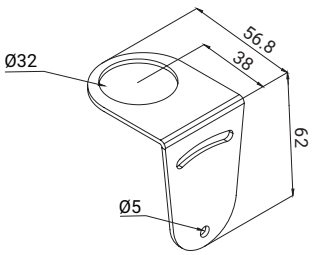


① Machine holes on the mounting surface referring to the diagram below.

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.

Mounting Accessories (Sold Separately)

	Dimensions
QTG/QTC/QTR50-IOL QTG/QTC/QTR60-IOL QTG/QTC/QTR70-IOL	 LB32

Installation Environment and Protection Rating

- This product is designed for indoor use, with protection ratings of Non-Waterproof (High-volume buzzer type) and IP65 (Waterproof 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).

⚠ 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.

Korea Corporation Qlight Co., Ltd. www.qlight.com | trade@qlight.com
Head Office | Suite #1510, STX-V Tower, 128 Gasan Digital 1-ro, Geumcheon-gu, Seoul, 08507, South Korea
Tel: +82-2-2679-6152 Fax: +82-2-2679-6154
Factory(Gimhae Production Headquarters) | 185-25, Mukbang-ro, Sangdong-myeon, Gimhae-si, Gyeongsangnam-do, 50805, South Korea
Tel: +82-55-328-1111
Overseas Sales Department | Qlight Building, 704 Nakdong-daero, Sasang-gu, Busan 47044, South Korea Tel: +82-51-620-4100
Busan Business Centerr | Qlight Building, 704 Nakdong-daero, Sasang-gu, Busan 47044, South Korea Tel: +82-51-245-0017

China Corporation SHANGHAI Qlight Electronic Co., Ltd. www.qlight.com www.qlightcn.com | qlightcn@qlight.com
Sales Corporation (Shanghai) | Room 333 Building B, No.11, Lane 450, Zhenda Road, Baoshan District, Shanghai, China
Tel: +86-21-6651-7100 Fax: +86-21-6315-3929
Manufacturing Corporation (Qidong) | No.33, Haiyan Road, Qidong High-tech Industrial Development Zone, Qidong, Jiangsu Province, China
Tel: +86-513-8384-9999 Fax: +86-513-8384-9910

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

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