

Smart Factory Products

CATALOG 2026



Signal Tower Lights
Signal Beacons and Sounders
Heavy-Duty and Explosion Proof Signalings
Warning Light Bars
Aviation Obstruction Lights
Smart Factory Products
Industrial LED Lights
Performance Line - E Series

Qlight

Gives you a
Brighter
Future

Qlight Gives You a Brighter Future!

Qlight has been contributed to an industrial safety and efficiency by producing several audible/ visual signaling devices and industrial LED lights since its establishment in 1986. Our technology and quality are highly reputable among various industries for example semiconductor manufacturing equipment, automobile industry, unmanned automation facility, steel production facility, shipbuilding industry, offshore plant, specialized unit for petrochemical industry based on diverse technology patents and core technologies such as LED light source, heat radiation technology, explosion proof design. Our established local corporations in South Korea and China, sales branches in the United States, Japan, Vietnam, and a global service network provides a distribution and sales system servicing over 80 countries that help Qlight reinforces industrial fields all over the world.



Qlight is a representative of signaling device in Korea.

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.
As a market leader, Qlight is going to accomplish our responsibility by introducing state of the art equipment and unmanned facilities.

1986 - 1995

Business foundation and consolidation

- 1986 Established Qlight
- 1993 Nominated for developing domestic explosion proof warning lights by Korean Ministry of Science & Technology

1996 - 2005

Growing as a s signaling device specialist

- 2001 Established Shanghai Qlight Electronic Co., Ltd. in China



- 2004 ISO 9001:2000 certificates acquired

2006 - 2017

A great leap forward & business reconstruction

- 2010 Established R&D Center
- 2011 Selected as a venture company
- 2011 Selected as an INNO-BIZ firm which is an innovative tech company
- 2014 Selected as a promising export company by Small and Medium Business Administration(SMBA)
- 2014 Established the Qlight USA, Inc. in San Jose, CA.
- 2016 The second Gimhae factory built



History of Change & Innovation

2018 to Present

New engines for growth

2019 Established Qidong factory



2019 Selected as a family friendly
company by Ministry of
Gender Equality and Family

2020 Selected as a small giants
company by Small and
Medium Business
Administration(SMBA)

2021 Selected as a youth-friendly
small giants company

2023 Selected as the best reading
management company
by the Ministry of Culture,
Sports and Tourism of Korea

The 2nd growth and globalization

Qlight, the best professional company

Leading the **improvement of industrial efficiency**

1 Aiming for the first-class

Aiming for the first-class specialized company to contribute industrial efficiency and safety of customer based on the core competency of System, Variety, and Hi-quality

40 Continuous growth for about 40 years

Based on a partnership-oriented corporate culture and sharing management, we have grown continuously for 40 years since our founding and are recognized for our quality and technology.

80 Global networks in 80 countries

Exporting to all over the world through global network spanning over 200 distribution channels in 80 countries and brightening industrial sites around the world

450 Multi-variety production

Satisfying various needs of customers through systematic customer-customized production system for over 450 products

Quick

Prompt customer satisfaction and real time enterprise(RTE)

Quality

Emphasis on product and service quality, workplace innovation and ethical management

Question

Problem oriented thinking and creative problem solving are based on achieving strategic task.

Qualified

The most suitable company that leads the innovation of signaling device technology and industrial efficiency improvement



Core Competency



System

Delicate mechanism of the work realizes shorter lead time by effectively managing over-all procedures such as purchasing, production, stock management, and distribution.



Broad-line

Customers are highly satisfied with Qlight products because we offer over 450 types of wide variety of product family with a systematic customized production system.



Supreme Quality

Qlight's technological capability and supremacy of quality are being recognized because of our strict technology standard and inspection system. We've obtained over 22 certificates such as IECEx, ATEX, NEPSI, CCS, CE, and UL. We've been expanding it in accordance with industrial demands.

How Qlight works





SELECTION OF WARNING LIGHT

The selection of signaling devices will depend on the particular situation and environment.

- Whether the location of installation is dark or bright.
- Whether the signal transmission range should be short or long, or should have good visibility.
- Whether you need an economical but short lifetime product or upscale product with longer lifetime.
- Whether the environment is harsh with vibration and shock, or the environment is stable so that the life of the lights can be guaranteed.
- Whether it hugely or lightly affects ongoing task and safety when light source(bulb) of beacon is damaged at once.

FACTORS TO CONSIDER IN SIGNAL SELECTION





TYPE OF LIGHT SOURCE

Bulb

Light bulb is a light source that uses temperature reflection generated by the current flowing through the light bulb filament (thin line of metal), tungsten wire coil filament is often used. The hot filament is protected from oxidation with a glass sphere injected with inert gas (Argon gas, etc.). Typical characteristics of the gas injected bulb is described below.

1. When operating voltage is 10% lower than bulb's rated voltage, lifespan of product is quadrupled and power consumption is reduced to 85%.
2. On the contrary, when the operating voltage rises by 10%, lifespan of product becomes extremely short by 30% compared to the standard lifespan of a standard bulb (approx. 1,000 to 1,500 hours), and the power consumption rises by 16%. On the other hand, the brightness increases by 40%.

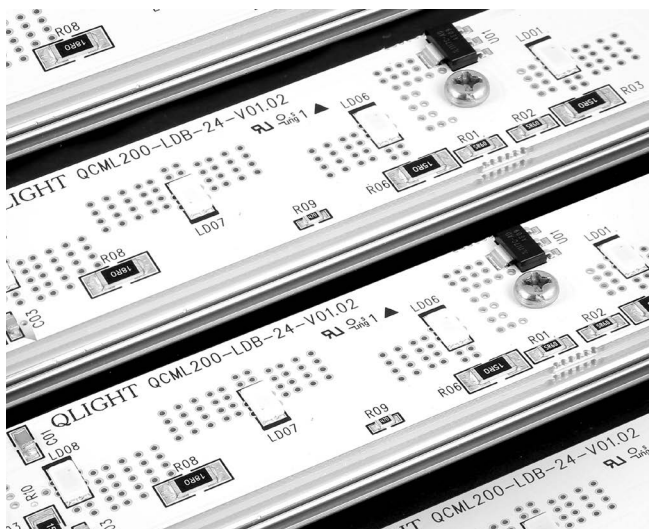
LED

The LED is a light emitting diode which emits light by injecting a current in the PN junction of the special semiconductor, semiconductors such as GaAs, GaP that Maximizes the electro-optical conversion effects are used. Like other semiconductors, over-voltage or ambient temperature affects the lifetime, but due to the absence of mechanical abrasion of the part, LED is shock/ vibration resistant so there is no need for proper seismic design. The standard service life of an LED is about 50,000 hours.

Xenon Lamp

Xenon lamp is a flash type light source that emits bright light instantly by inserting high energy into the lamp. Compared with the steady type lamp, xenon lamps need a lot of input power instantly and an extremely large amount of light it is diffused.

The lamp is filled with xenon(Xe) gas due to the convenience of the production(choice of materials), its use, xenon lamp was named after the xenon gas that it uses. xenon lamps are also resistant to vibration due to its mounting method. In addition, it is visible even in bright environments not only because the spectacle distribution of the visible light is close to the sunlight, it uses the same method as the strobe of the camera.



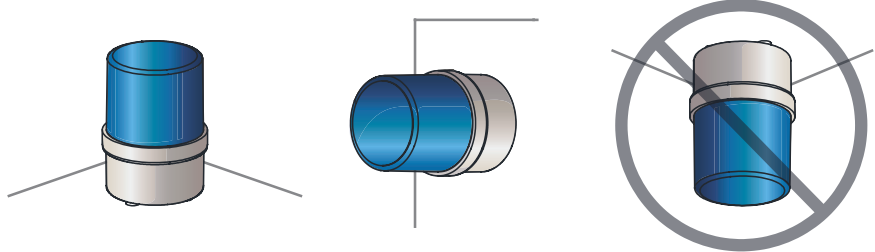
PRODUCT INSTALLATION DIRECTION



Install the product in accordance with the manual. otherwise, rainwater or moisture may penetrate into the product.

• BEACON/SIGNALING LIGHT

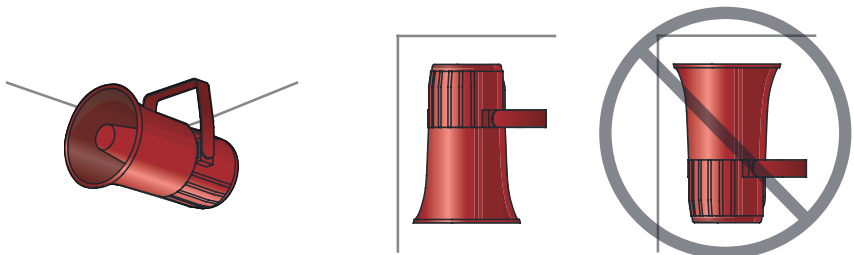
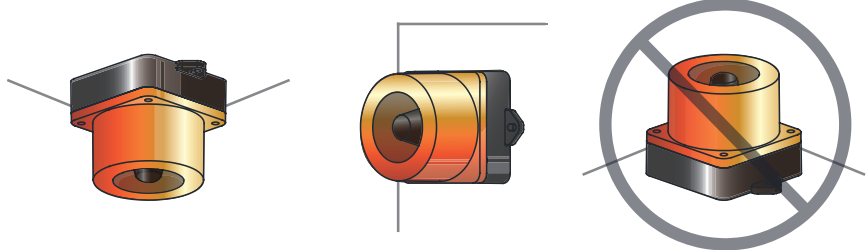
Power cord inlet part shall not be facing the sky.



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

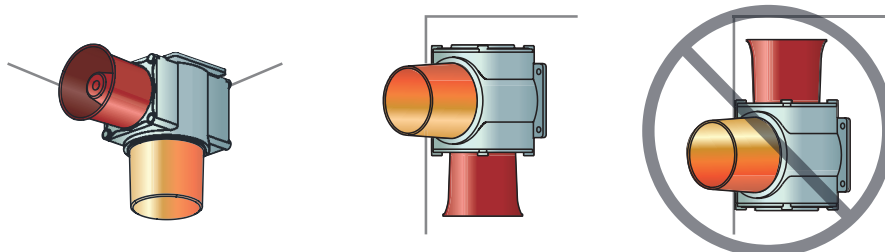
• ELECTRONIC SOUNDER /SIGNAL HORN

Sounder part shall not be facing the sky.



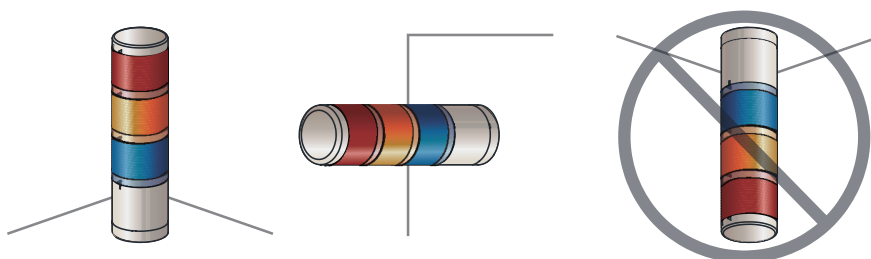
• **HEAVY-DUTY & EXPLOSION
PROOF SIGNALINGS**

Sounder part shall not be facing the sky.



• **SIGNAL TOWER LIGHTS**

Power cord inlet part shall not be facing the sky.



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

Tower Light Mounting Brackets

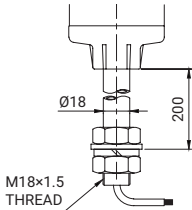
User can select from a variety of Mounting brackets options depending on their application conditions.

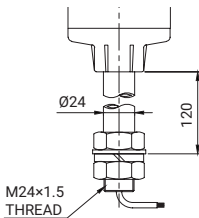
Units: mm

- **18mm SCREW & NUT (Standard Type)**
- **24mm SCREW & NUT (Standard Type)**

Standard type pole mount installation.
There is a screw at the end of the pole
and it is equipped with nut for installation.

Material: Steel

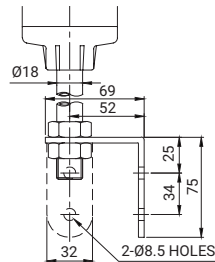
Product Image	Technical Diagram for Applicable Models
 18mm SCREW & NUT (Standard Type)	 ST45 / ST56 Series, STG40 / STG50 Series, STC45 / STC56 Series, QTG50 / QTG60 Series, QTC50 / QTC60 Series, QTR50 / QTR60 Series, QT50 Series, QTG60-WIZ Series, MTG50 / MTG60 Series, MTC50 / MTC60 Series, MTR50 / MTR60 Series, EST56 Series, ST45 / ST56-ETN Series, QTG50 / QTG60-ETN Series, QTC50 / QTC60-ETN Series, QTR50 / QTR60-ETN Series, ST45 / ST56-USB Series, QTG50 / QTG60-USB Series, QTC50 / QTC60-USB Series, QTR50 / QTR60-USB Series

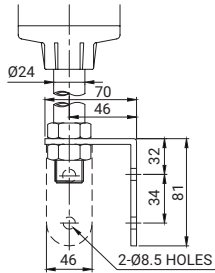
 24mm SCREW & NUT (Standard Type)	 ST80 Series, STC80 Series, QTG70 Series, QTC70 Series, QTR70 Series, QT70 Series, QTG70-WIZ Series, MTG70 Series, MTC70 Series, MTR70 Series, QAT80 Series, ST80-ETN Series, QTG70-ETN Series, QTC70-ETN Series, QTR70-ETN Series, ST80-USB Series, QTG70-USB Series, QTC70-USB Series, QTR70-USB Series
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- **LB18 | LB24**

L-type bracket is attached to the pole
mount tower light for installation to the
side of the equipment.

Material: Steel

Product Image	Technical Diagram for Applicable Models
 LB18	 ST45 / ST56 Series, STG40 / STG50 Series, STC45 / STC56 Series, QTG50 / QTG60 Series, QTC50 / QTC60 Series, QTR50 / QTR60 Series, QT50 Series, QTG60-WIZ Series, MTG50 / MTG60 Series, MTC50 / MTC60 Series, MTR50 / MTR60 Series, EST56 Series, ST45 / ST56-ETN Series, QTG50 / QTG60-ETN Series, QTC50 / QTC60-ETN Series, QTR50 / QTR60-ETN Series, ST45 / ST56-USB Series, QTG50 / QTG60-USB Series, QTC50 / QTC60-USB Series, QTR50 / QTR60-USB Series

 LB24	 ST80 Series, STC80 Series, QTG70 Series, QTC70 Series, QTR70 Series, QT70 Series, QTG70-WIZ Series, MTG70 Series, MTC70 Series, MTR70 Series, QAT80 Series, ST80-ETN Series, QTG70-ETN Series, QTC70-ETN Series, QTR70-ETN Series, ST80-USB Series, QTG70-USB Series, QTC70-USB Series, QTR70-USB Series
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Tower Light Mounting Brackets

Units: mm

• LW18 | LW24

High-end L-type bracket is attached to the pole mount tower light for side of equipment installations. Wires can be threaded through the side of the bracket or come out at the bottom. The threads inside the bottom of the bracket can enable use of cable connectors.

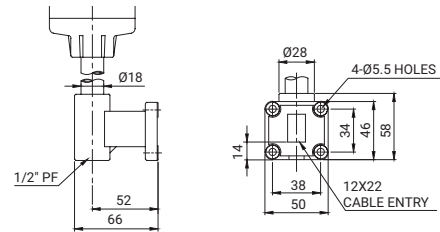
Material: ABS
Color: Ivory

Product Image



LW18

Technical Diagram for Applicable Models

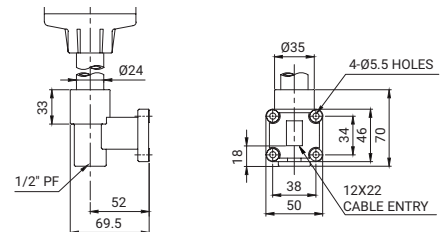


ST45 / ST56 Series, STG40 / STG50 Series, STC45 / STC56 Series, QTG50 / QTG60 Series, QTC50 / QTC60 Series, QTR50 / QTR60 Series, QT50 Series, QTG60-WIZ Series, MTG50 / MTG60 Series, MTC50 / MTC60 Series, MTR50 / MTR60 Series, EST56 Series, ST45 / ST56-ETN Series, QTG50 / QTG60-ETN Series, QTC50 / QTC60-ETN Series, QTR50 / QTR60-ETN Series, ST45 / ST56-USB Series, QTG50 / QTG60-USB Series, QTC50 / QTC60-USB Series, QTR50 / QTR60-USB Series

Product Image



LW24



ST80 Series, STC80 Series, QTG70 Series, QTC70 Series, QTR70 Series, QT70 Series, QTG70-WIZ Series, MTG70 Series, MTC70 Series, MTR70 Series, QAT80 Series, ST80-ETN Series, QTG70-ETN Series, QTC70-ETN Series, QTR70-ETN Series, ST80-USB Series, QTG70-USB Series, QTC70-USB Series, QTR70-USB Series

• SZ18 | SZ24

Round-shaped bracket for horizontal surface installation.

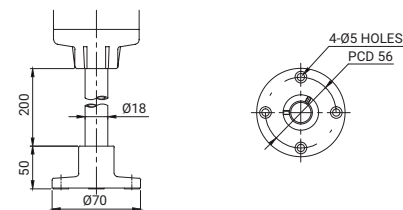
Material: Al
Color: Silver

Product Image



SZ18

Technical Diagram for Applicable Models

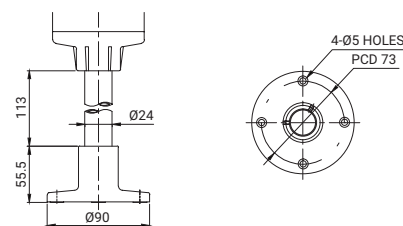


ST45 / ST56 Series, STG40 / STG50 Series, STC45 / STC56 Series, QTG50 / QTG60 Series, QTC50 / QTC60 Series, QTR50 / QTR60 Series, QT50 Series, QTG60-WIZ Series, MTG50 / MTG60 Series, MTC50 / MTC60 Series, MTR50 / MTR60 Series, EST56 Series, ST45 / ST56-ETN Series, QTG50 / QTG60-ETN Series, QTC50 / QTC60-ETN Series, QTR50 / QTR60-ETN Series, ST45 / ST56-USB Series, QTG50 / QTG60-USB Series, QTC50 / QTC60-USB Series, QTR50 / QTR60-USB Series

Product Image



SZ24



ST80 Series, STC80 Series, QTG70 Series, QTC70 Series, QTR70 Series, QT70 Series, QTG70-WIZ Series, MTG70 Series, MTC70 Series, MTR70 Series, QAT80 Series, ST80-ETN Series, QTG70-ETN Series, QTC70-ETN Series, QTR70-ETN Series, ST80-USB Series, QTG70-USB Series, QTC70-USB Series, QTR70-USB Series

Tower Light Mounting Brackets

Units: mm

• QZ18 | QZ24

Round-shaped bracket for horizontal surface installation.

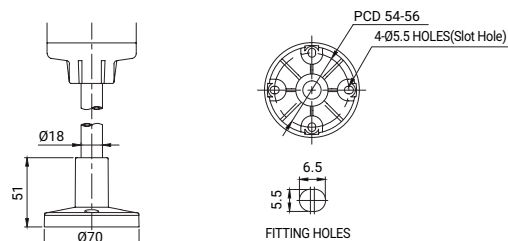
Material: ABS
Color: Black

Product Image



QZ18

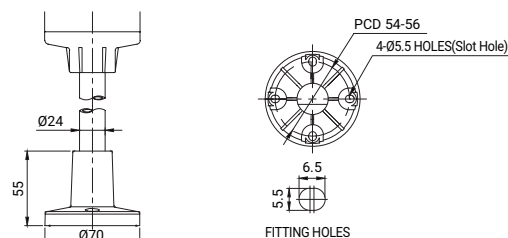
Technical Diagram for Applicable Models



ST45 / ST56 Series, STG40 / STG50 Series, STC45 / STC56 Series, QTG50 / QTG60 Series, QTC50 / QTC60 Series, QTR50 / QTR60 Series, QT50 Series, QTG60-WIZ Series, MTG50 / MTG60 Series, MTC50 / MTC60 Series, MTR50 / MTR60 Series, EST56 Series, ST45 / ST56-ETN Series, QTG50 / QTG60-ETN Series, QTC50 / QTC60-ETN Series, QTR50 / QTR60-ETN Series, ST45 / ST56-USB Series, QTG50 / QTG60-USB Series, QTC50 / QTC60-USB Series, QTR50 / QTR60-USB Series



QZ24



ST80 Series, STC80 Series, QTG70 Series, QTC70 Series, QTR70 Series, QT70 Series, QTG70-WIZ Series, MTG70 Series, MTC70 Series, MTR70 Series, QAT80 Series, ST80-ETN Series, QTG70-ETN Series, QTC70-ETN Series, QTR70-ETN Series, ST80-USB Series, QTG70-USB Series, QTC70-USB Series, QTR70-USB Series

• SL18 | SL24

An angle adjustable bracket (15 degree intervals for a range of 0-180 degrees) enables easy vertical, horizontal, and slanted installation.

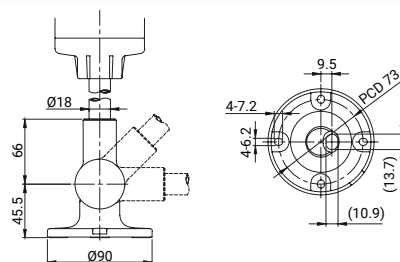
Material: Al
Color: Silver

Product Image



SL18

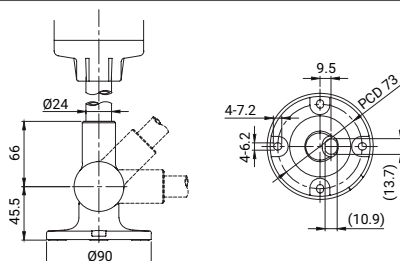
Technical Diagram for Applicable Models



ST45 / ST56 Series, STG40 / STG50 Series, STC45 / STC56 Series, QTG50 / QTG60 Series, QTC50 / QTC60 Series, QTR50 / QTR60 Series, QT50 Series, QTG60-WIZ Series, MTG50 / MTG60 Series, MTC50 / MTC60 Series, MTR50 / MTR60 Series, EST56 Series, ST45 / ST56-ETN Series, QTG50 / QTG60-ETN Series, QTC50 / QTC60-ETN Series, QTR50 / QTR60-ETN Series, ST45 / ST56-USB Series, QTG50 / QTG60-USB Series, QTC50 / QTC60-USB Series, QTR50 / QTR60-USB Series



SL24



ST80 Series, STC80 Series, QTG70 Series, QTC70 Series, QTR70 Series, QT70 Series, QTG70-WIZ Series, MTG70 Series, MTC70 Series, MTR70 Series, QAT80 Series, ST80-ETN Series, QTG70-ETN Series, QTC70-ETN Series, QTR70-ETN Series, ST80-USB Series, QTG70-USB Series, QTC70-USB Series, QTR70-USB Series

Tower Light Mounting Brackets

Units: mm

• QL18 | QL24

An angle adjustable bracket (5 degree intervals for a range of 0-180 degrees) enables easy vertical, horizontal, and slanted installation.

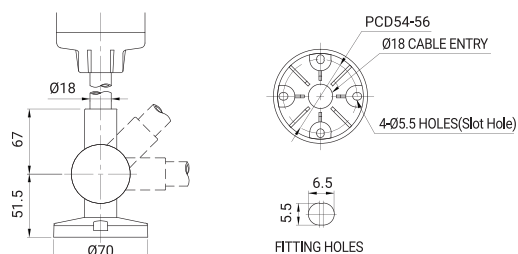
Material: ABS
Color: Black

Product Image



QL18

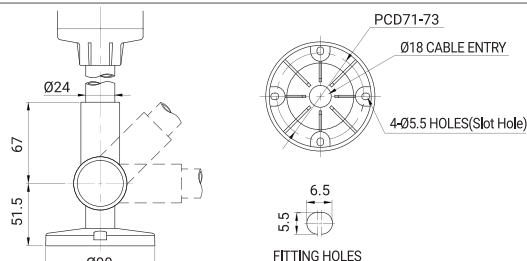
Technical Diagram for Applicable Models



ST45 / ST56 Series, STG40 / STG50 Series, STC45 / STC56 Series, QTG50 / QTG60 Series, QTC50 / QTC60 Series, QTR50 / QTR60 Series, QT50 Series, QTG60-WIZ Series, MTG50 / MTG60 Series, MTC50 / MTC60 Series, MTR50 / MTR60 Series, EST56 Series, ST45 / ST56-ETN Series, QTG50 / QTG60-ETN Series, QTC50 / QTC60-ETN Series, QTR50 / QTR60-ETN Series, ST45 / ST56-USB Series, QTG50 / QTG60-USB Series, QTC50 / QTC60-USB Series, QTR50 / QTR60-USB Series



QL24



ST80 Series, STC80 Series, QTG70 Series, QTC70 Series, QTR70 Series, QT70 Series, QTG70-WIZ Series, MTG70 Series, MTC70 Series, MTR70 Series, QAT80 Series, ST80-ETN Series, QTG70-ETN Series, QTC70-ETN Series, QTR70-ETN Series, ST80-USB Series, QTG70-USB Series, QTC70-USB Series, QTR70-USB Series

• FB18

An angle adjustable bracket (5 degree intervals for a range of 0-180 degrees) enables easy vertical, horizontal, and slanted installation.

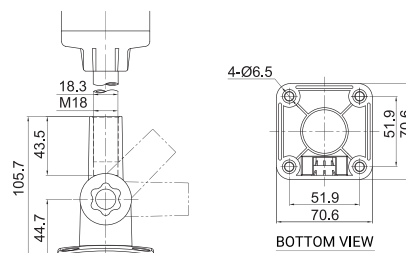
Material: ABS
Color: Black, Ivory

Product Image



FB18
(Black)

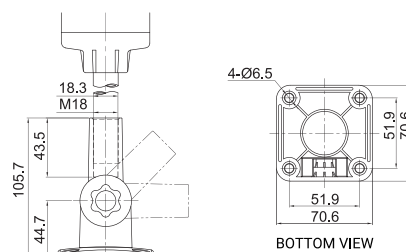
Technical Diagram for Applicable Models



EST56L



FB18
(Ivory)



EST56L

Tower Light Mounting Brackets

Units: mm

• TWS45 | TWS80

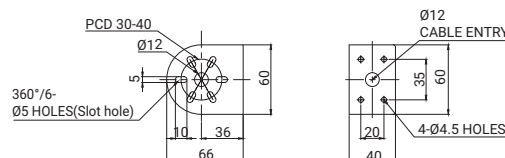
Bracket options for direct mount tower light installation.

Material: Steel

Color: Silver, Ivory



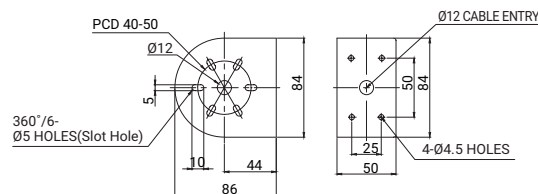
TWS45



ST45 / ST56M Series, STG40 / STG50M Series, STC45 / STC56M Series, QTG50 / QTG60M Series, QTC50M / QTC60M Series, QTR50 / QTR60M Series, QT50M Series, QTG60M-WIZ Series, MTG50 / MTG60M Series, MTC50 / MTC60M Series, MTR50 / MTR60M Series, QTG50 / QTG60M-USB Series, QTC50 / QTC60M-USB Series, QTR50 / QTR60M-USB Series, QTG50 / QTG60M-ETN Series, QTC50 / QTC60M-ETN Series, QTR50 / QTR60M-ETN Series



TWS80



ST80M Series, STC80 Series, QTG70M Series, QTC70M Series, QTR70M Series, MTG70M Series, MTC70M Series, MTR70M Series, QT70M Series, QTG70M-USB Series, QTC70M-USB Series, QTR70M-USB Series, QTG70M-ETN Series, QTC70M-ETN Series, QTR70M-ETN Series, QTG70M-WIZ Series

• TWA45 | TWA80

Bracket options for direct mount tower light installation.

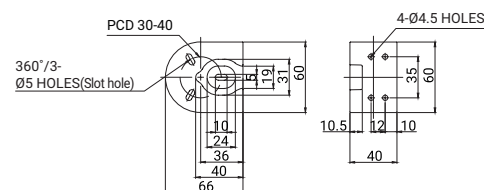
Bracket structure allows for contained and tidy wiring with no exposed wires.

Material: PC

Color: Black, Ivory



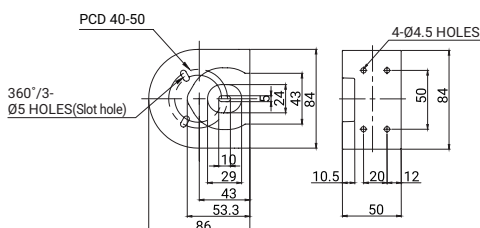
TWA45



ST45 / ST56M Series, STG40 / STG50M Series, STC45 / STC56M Series, QTG50 / QTG60M Series, QTC50M / QTC60M Series, QTR50 / QTR60M Series, QT50M Series, QTG60M-WIZ Series, MTG50 / MTG60M Series, MTC50 / MTC60M Series, MTR50 / MTR60M Series, QTG50 / QTG60M-USB Series, QTC50 / QTC60M-USB Series, QTR50 / QTR60M-USB Series, QTG50 / QTG60M-ETN Series, QTC50 / QTC60M-ETN Series, QTR50 / QTR60M-ETN Series



TWA80



ST80M Series, STC80 Series, QTG70M Series, QTC70M Series, QTR70M Series, MTG70M Series, MTC70M Series, MTR70M Series, QT70M Series, QTG70M-USB Series, QTC70M-USB Series, QTR70M-USB Series, QTG70M-ETN Series, QTC70M-ETN Series, QTR70M-ETN Series, QTG70M-WIZ Series

Tower Light Mounting Brackets

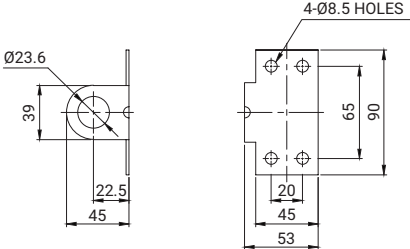
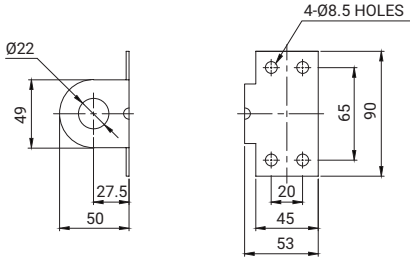


• STAWB25 | STAWB45

Bracket options for direct mount slim type tower light installation.

Material: Steel
Color: Silver, Ivory

Units: mm

Product Image	Technical Diagram for Applicable Models	
		
STAWB25	STA25SLM, STA35SL, STA35SLM	
		
STAWB45	STA45SLM	

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	Siren	Icon	Siren
	Buzzer		Speaker
	Horn		Bell
	Motor siren		MP3
	Volume(dB)		

Specifications Icons

Icon	Specification	Icon	Specification
	Magnet type		Ambient operating temperature
	NPN type transistor		PNP type transistor
	IP rating		Wireless Network
	RoHS		

Wireless Network System | CAN, RS485 Protocol Controlled Product

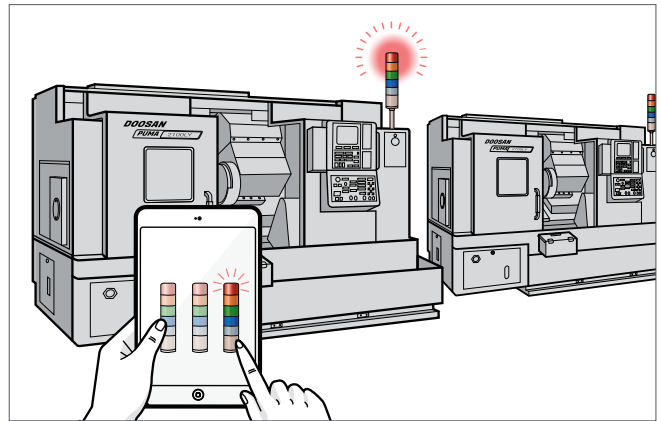
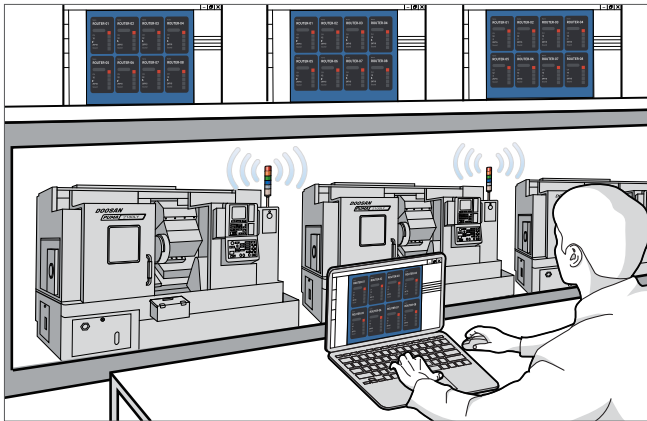
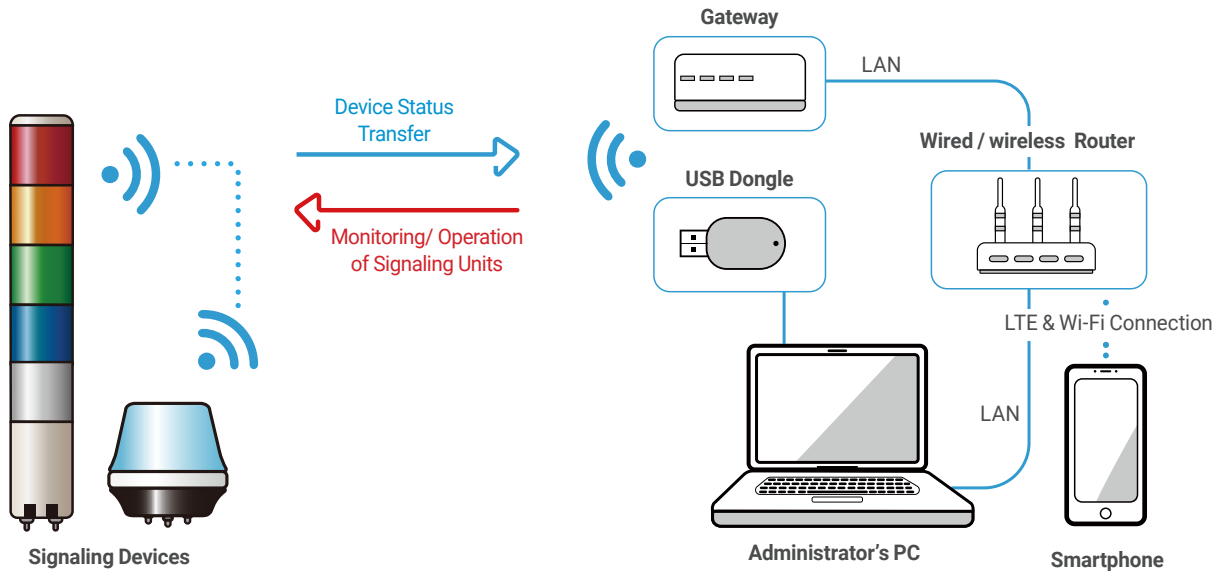


Technical Information
Product Specifications
Product Information

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Wireless Network System Application

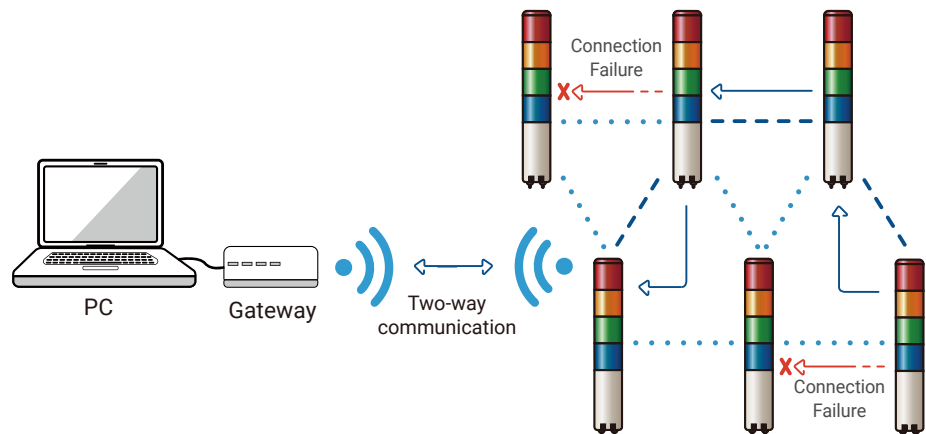
Wireless network system uses wireless network to remotely monitor and control the operation status of a signaling device through a PC or smartphone. By applying wireless communication between production equipment, users can build an advanced production system.



- Uses a Mesh Topology that operates in 2.4 GHz short-range wireless technology which ensures the communication reliability in harsh environments
- Multi-hop function of the signaling device enables stable long-distance communication (with up to 100M between devices)

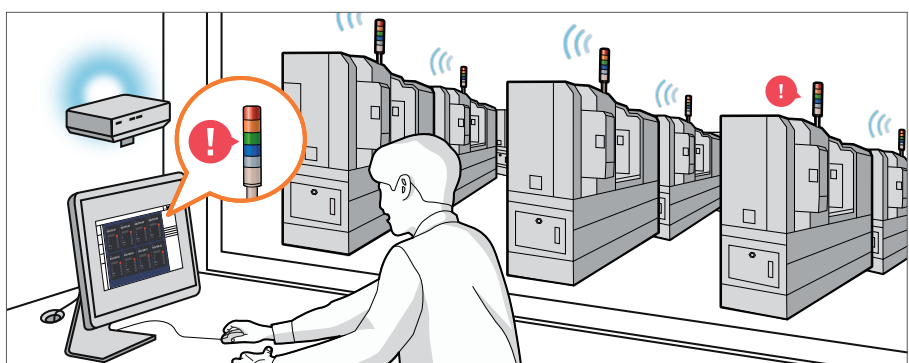
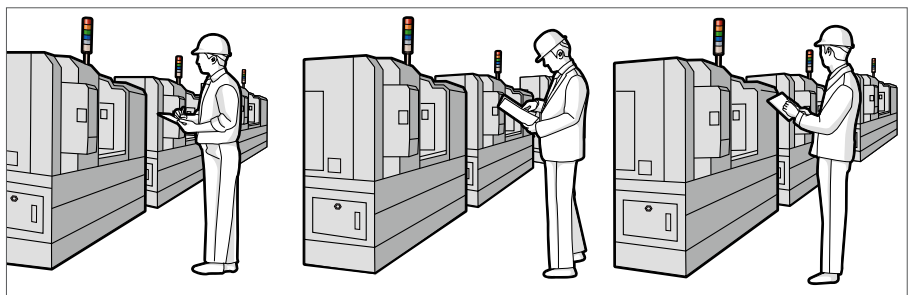
Routing function that automatically navigates the optimum communication path

- Mesh network selects the strongest signal path for traffic and automatically steers signals around interference to ensure high availability of mesh links.
- Once there's a problem with wireless communication, the signaling device will find a new communication route in order to maintain smooth communication.

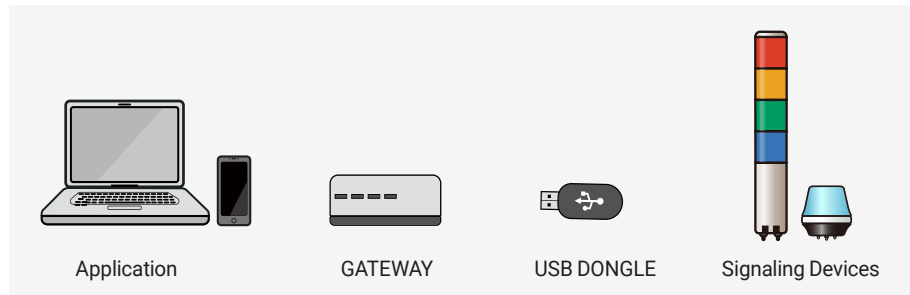


Building an advanced production network system with a low cost

- Combining a new network system to existing production lines can be easily done by connecting wireless signal devices.
- Cost-effectiveness by requiring no additional cable when change the layout of production lines.



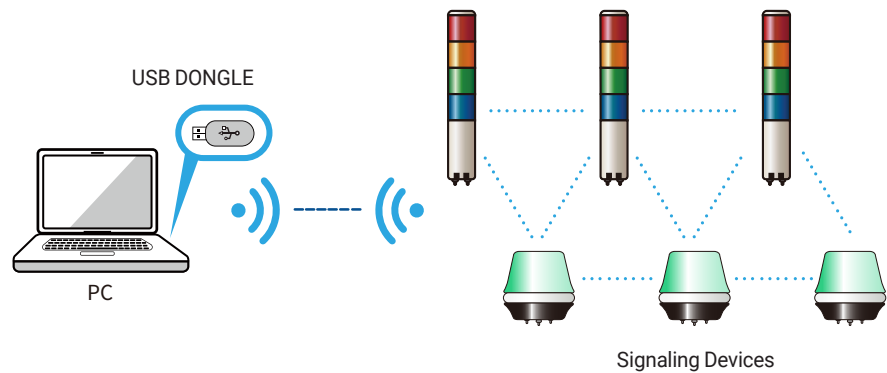
Components



1. Connection Types

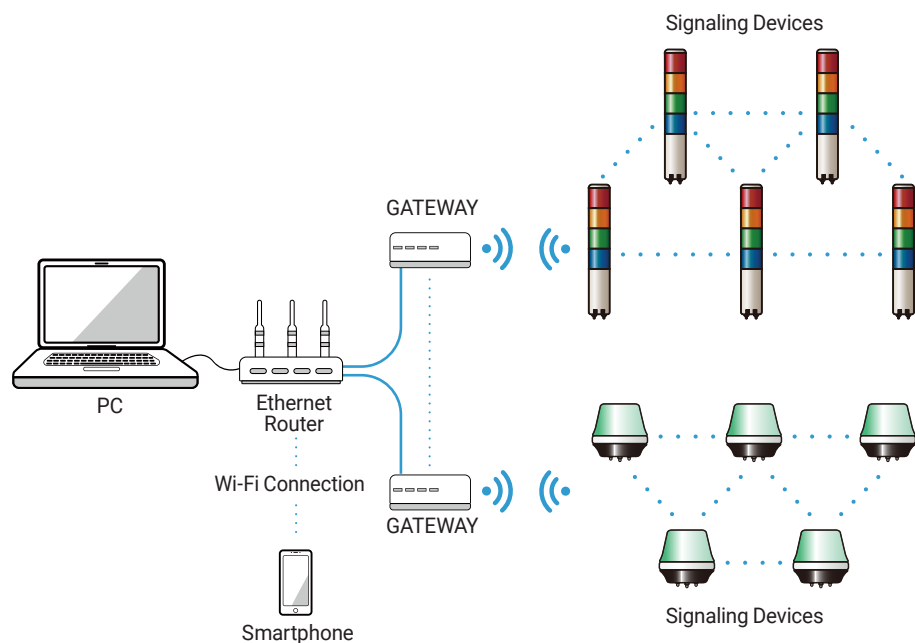
1) Connection via USB Dongle

- Easy installation and operation by plugging it to a PC, suitable for a single or small-scaled wireless network connection needs.(controls and monitors up to 32 wireless devices)



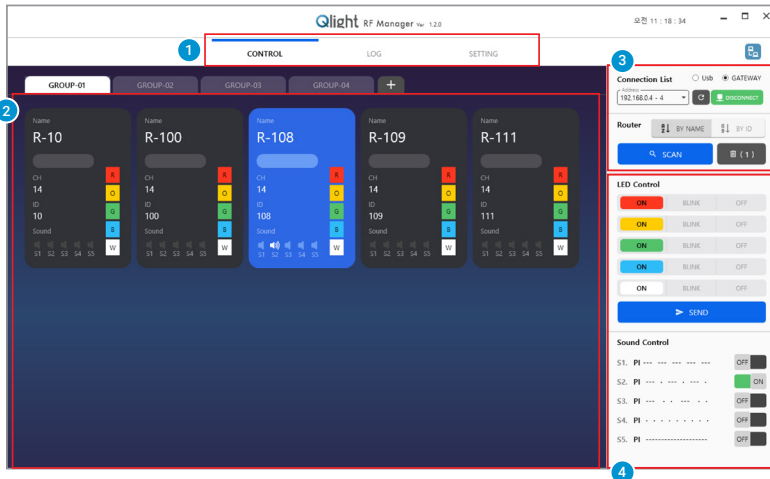
2) Connection via GATEWAY

- Connecting multiple gateways allow 768 wireless signaling devices to be connected to the network, suitable for large-scaled production facilities.
- Can monitor or control the status of signaling devices with smartphones.



2. Connection Instructions

• Basic screen description



1) Menu

- Connection: Control wireless devices through USB Dongle and Gateway
- LOG: Save log data and use the data to check various information such as operation rate and productivity.
- SETTING: USB Dongle, Gateway, wireless device settings

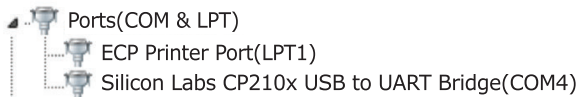
2) Device Viewer: Check and select the connection status of wireless devices

3) Function to connect USB DONGLE and Gateway and scan wireless devices

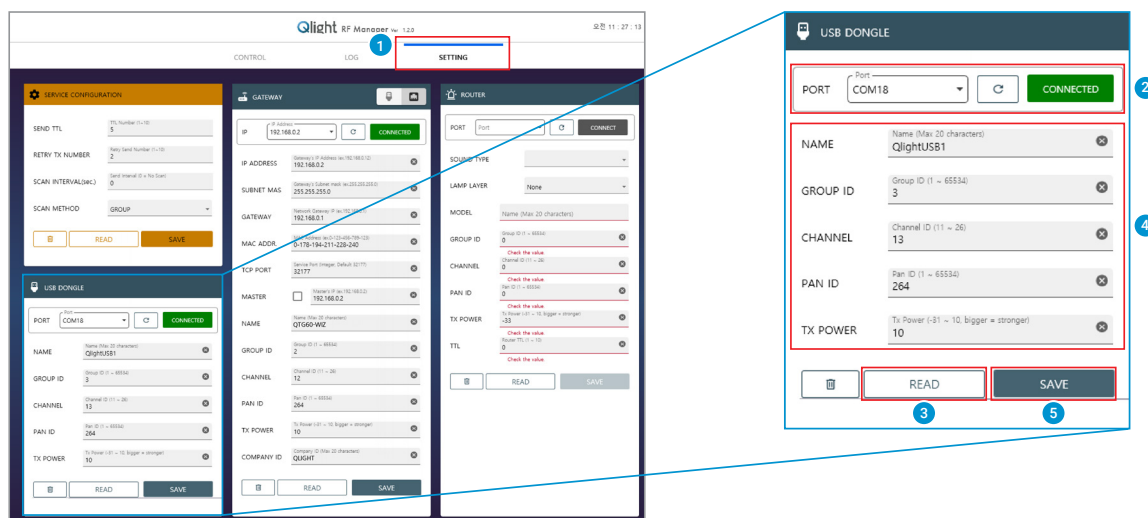
4) Control selected devices through the device viewer window

1) USB Dongle

- PC program allows you to configure wireless devices such as gateways, USB dongles and signaling devices, and can also monitor or control the status of the signaling devices.
- Check the COM port after the USB Dongle is connected(RS-232).
- Click Start -> Control Panel -> Device Manager -> Port (COM & LPT)



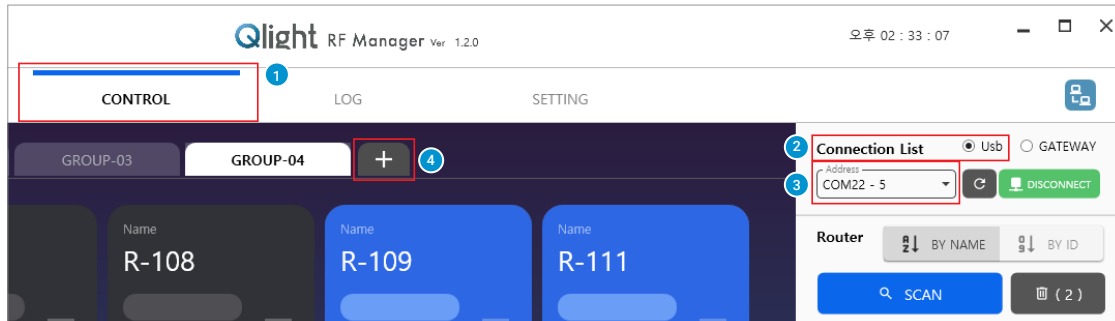
• USB DONGLE SETTING



- 1) Select the SETTING menu and set up the USB DONGLE.
- 2) Check and select the COM port of your PC and press CONNECT to connect to the USB DONGLE.
- 3) Press the READ button to load the RF information of the currently set USB DONGLE.
- 4) Check and modify the RF information of the USB DONGLE.
- 5) Click the SAVE button to save the modified information.

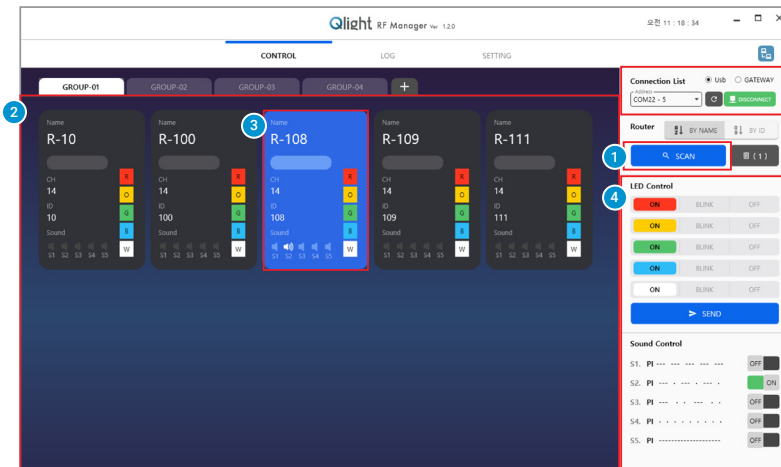
Wireless Network System Application

• USB DONGLE CONNECTION



- 1 Select the CONTROL menu.
- 2 Select USB from the CONNECTION LIST.
- 3 Check and select the COM port of your PC and press CONNECT to connect to the USB DONGLE.
- 4 When connecting multiple USB DONGLES, add GROUP.

• DEVICE MONITORING & CONTROL



- 1 After connecting to the USB DONGLE, press the SCAN button to connect the wireless device.
- 2 The wirelessly connected device will appear on the screen.
- 3 Select the device you need to control.
- 4 Control selected devices.

2) Gateway - Setting and Usage

- The PC program allows you to configure wireless devices such as gateways, USB dongles and signaling devices, and can also monitor or control the status of the signaling devices.
- Setting and Usage
 - The PC program allows you to configure wireless devices such as gateways, USB dongles and signaling devices, and can also monitor or control the status of the signaling devices.
 - With the Gateway linked to the Ethernet Network users can check or control the operation status of devices by smartphone. The control PC uses IIS function to enable access to the smartphone in WINDOW XP or later versions.

IIS?

What is IIS? IIS stands for Microsoft's Internet information Services which is a WINDOWS service used for web service. With IIS, services such as FTP, SMTP, NNTP, and HTTP/ HTTPS are available.

• GATEWAY SETTING

1 Select the SETTING menu and set the GATEWAY.

2 After setting the IP of the gateway to be connected, click CONNECT to connect to the gateway.

3 Press the READ button to load information on the currently set GATEWAY.

4 Check and modify GATEWAY's default information.

5 Click the SAVE button to save the modified information.

• GATEWAY CONNECTION

1 Select the CONTROL menu.

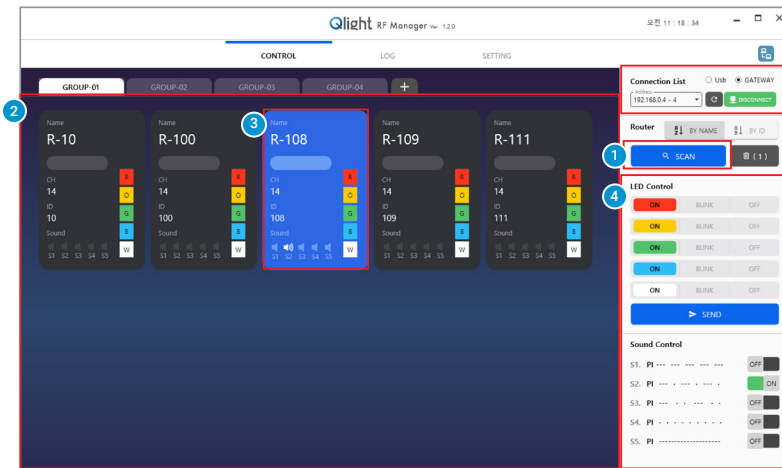
2 Select GATEWAY from CONNECTION LIST.

3 Select the IP of the GATEWAY to connect and press CONNECT to connect to the GATEWAY.

4 When connecting multiple GATEWAYS, add GROUP.

Wireless Network System Application

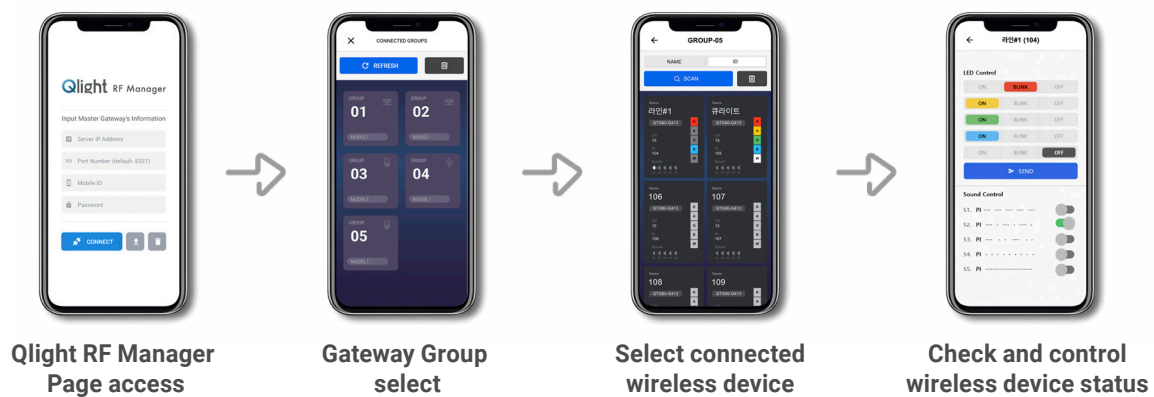
• GATEWAY CONNECTION



- 1 After connecting to the GATEWAY, press the SCAN button to connect the wireless device.
- 2 The wirelessly connected device will appear on the screen.
- 3 Select the device you need to control.
- 4 Control selected devices.

How to use your smartphone

- To use a smartphone, you must link the Gateway with a wired/wireless router.
- Access the Qlight RF Manager page on your smartphone using the IP address of the administrator PC on which IIS is set.
- After logging in through the login page, select the connected gateway.
- Select a signal information device connected to the selected gateway to monitor or control the device.
- For detailed settings, please contact the manufacturer.



Specification List For Wireless Products

Wireless LED Tower Lights



Model number		QTG60ML-WIZ	QTG60L-WIZ	QTG70ML-WIZ	QTG70L-WIZ
Dimension (mm)	Voltage	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V
	Outdia	Ø60	Ø60	Ø70	Ø70
	Height	199-399	435-625	199-399	357-557
	Depth				
Material		Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS
Layers		1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady/ Flashing	●	●	●	●
	Buzzer sound	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m
Sound & volume	Signal sounds				
	Layer color change	Yes	Yes	Yes	Yes
Mount bracket		Direct mount	Pole mount	Direct mount	Pole mount
Bracket		TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24
Protection rating		IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)
Usage place		Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use	Indoor/Outdoor Use
Certificates		KC, CE, FCC	KC, CE, FCC	KC, CE, FCC	KC, CE, FCC
Customization		High-volume buzzer module, Wall mount bracket	High-volume buzzer module, Pole length adjustment,	High-volume buzzer module, Wall mount bracket	High-volume buzzer module, Pole length adjustment,
Transistor		NPN	NPN	NPN	NPN
Communication		Wireless	Wireless	Wireless	Wireless
Page		P26	P27	P28	P29

Wireless LED Signal Lights



Model number		QMCL125-WIZ	WIZ32 (USB Dongle)	GW768(GATEWAY)
Dimension (mm)	Voltage	DC12V, DC24V	USB 5V	DC12V-24V AC110V-220V
	Outdia	Ø116	49x23	151x80
	Height	110	10	48
	Depth			
Material		Lens-PC Housing-ABS	Cover-ABS	Housing-ABS
Sound & volume	Buzzer	Max. 80dB at 1m		
	Mount bracket	Direct mount		
Protection rating		IP65		
Usage place		Indoor/Outdoor Use	-	-
Certificates		CE, FCC	KC, CE, FCC	KC, CE, FCC
Customization		Wall mount bracket	-	-
Transistor		NPN	-	-
Communication		Wireless	Wireless	Wireless
Page		P34-36	P37	P38

CAN, RS485 Protocol Controlled Product



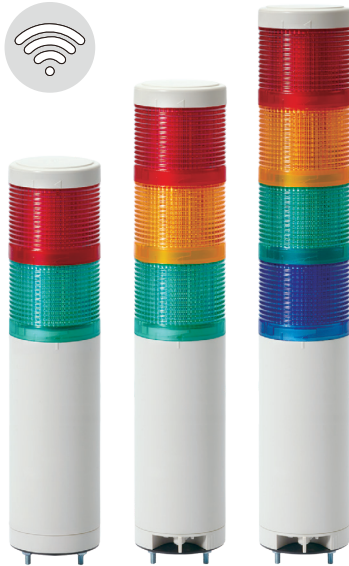
Model number		CPK-CAN	CPK-RS485
Dimension (mm)	Voltage	DC12V-24V	DC12V-24V
	Outdia	80 x 80	80 x 80
	Height	-	-
	Depth	75	75
Material		ABS	ABS
Sound & volume	Buzzer		
	MP3	Max. 85dB at 1m	Max. 85dB at 1m
Mount bracket		Panel mount	Panel mount
Protection rating		IP65	IP65
Usage place		Indoor/Outdoor Use	Indoor/Outdoor Use
Certificates		CE	CE
Customization		-	-
Transistor		NPN type	NPN or PNP type
Communication		CAN Protocol Controlled Product	RS485 Protocol Controlled Product
Page		P39	P40

Wireless LED Steady/ Flashing Tower Light

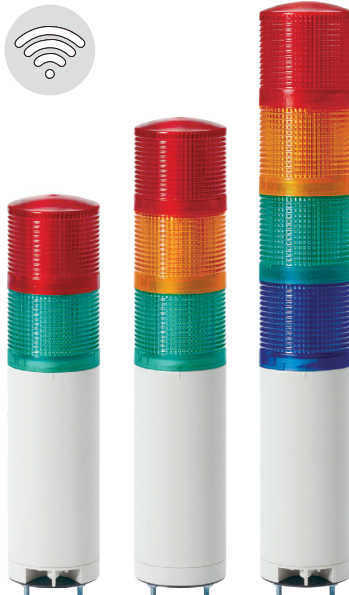
QTG60ML-WIZ



Can remotely monitor and control the status of tower lights using a PC or smartphone



QTG60ML-WIZ Series



QTGA60ML-WIZ Series

PRODUCT SPECIFICATION

QTG60(M)L-WIZ
QTG70(M)L-WIZ

Materials Lens-PC, Housing-ABS
Ambient operating temperature -30°C to +50°C
Volume Max. 85dB at 1m
Protection rating IP54/IP65
Compliant with RoHS directive

- Allows you to build an advanced production network system with a low cost
- Uses a Mesh Topology that operates in 2.4 GHz Short-Range wireless technology which ensures the communication reliability in harsh environments
- Multi-hop function of the signaling device enables a stable long-distance communication(with up to 100M between devices)
- Cost-effective by requiring no additional cable when change the layout of production lines
- Wireless communication protocol : Zigbee(IEEE802.15.4)



QTG60ML-WIZ Ø60mm Direct Mount, LED Steady/Flashing Type

Model number	Layers	Voltage	Certificates	Weight	Color
QTG60ML-WIZ Steady	1	DC12V DC24V AC110V-220V		0.32kg 0.32kg 0.36kg	● R-Red
QTG60ML-WIZ-BZ Steady w/built-in buzzer	2	DC12V DC24V AC110V-220V		0.37kg 0.37kg 0.41kg	● R-Red ● G-Green
QTG60MLF-WIZ Steady/Flashing	2	DC12V DC24V AC110V-220V		0.42kg 0.42kg 0.46kg	● R-Red ● A-Amber ● G-Green
QTG60MLF-WIZ-BZ Steady/Flashing w/ built-in buzzer	3	DC12V DC24V AC110V-220V	CE FCC	0.47kg 0.47kg 0.51kg	● R-Red ● A-Amber ● G-Green ● B-Blue
QTGA60ML-WIZ Steady	4	DC12V DC24V AC110V-220V		0.52kg 0.52kg 0.56kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White
QTGA60ML-WIZ-BZ Steady w/built-in buzzer	4	DC12V DC24V AC110V-220V			
QTGA60MLF-WIZ Steady/Flashing	5	DC12V DC24V AC110V-220V			
QTGA60MLF-WIZ-BZ Steady/Flashing w/ built-in buzzer	5	DC12V DC24V AC110V-220V			

※ AC type model has a free-voltage range of 100V-240V

※ KC Certification: DC24V, CE RED compliant: DC24V, AC110V-220V, FCC Complaint: DC24V, AC110V-220V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	130mA	85mA	Max.65mA
Buzzer current	35mA	30mA	Max.40mA

Customization

- High volume buzzer option can be fitted to the top of the product(Lens should be within 4 layers)
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall mount



Wall mount bracket TWS45



Wall mount bracket TWA45

Wiring Instructions

- External power line
UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line
UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wiring with External Contact and transistor

Ordering Specification

QTG60ML-WIZ	-	3	-	110/220	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
QTG60ML-WIZ		1-1 Layer		12-DC12V		● R-Red
QTG60ML-WIZ-BZ		2-2 Layers		24-DC24V		● A-Amber
QTG60MLF-WIZ		3-3 Layers		110/220-AC110V-220V		● G-Green
QTG60MLF-WIZ-BZ		4-4 Layers				● B-Blue
QTGA60ML-WIZ		5-5 Layers				○ W-White
QTGA60ML-WIZ-BZ						
QTGA60MLF-WIZ						
QTGA60MLF-WIZ-BZ						

Wireless LED Steady/ Flashing Tower Light

QTG60L-WIZ



QTG60L-WIZ Ø60mm Pole mount, LED Steady/Flashing Type

Model number	Layers	Voltage	Certificates	Weight	Color
QTG60L-WIZ Steady	1	DC12V DC24V AC110V-220V	  	0.50kg 0.50kg 0.53kg	 R-Red
QTG60L-WIZ-BZ Steady w/built-in buzzer	2	DC12V DC24V AC110V-220V		0.55kg 0.55kg 0.58kg	 R-Red  G-Green
QTG60LF-WIZ Steady/Flashing					
QTG60LF-WIZ-BZ Steady/Flashing w/ built-in buzzer	3	DC12V DC24V AC110V-220V		0.60kg 0.60kg 0.63kg	 R-Red  A-Amber  G-Green
QTGA60L-WIZ Steady	4	DC12V DC24V AC110V-220V		0.65kg 0.65kg 0.68kg	 R-Red  A-Amber  G-Green  B-Blue
QTGA60L-WIZ-BZ Steady w/built-in buzzer					
QTGA60LF-WIZ Steady/Flashing					
QTGA60LF-WIZ-BZ Steady/Flashing w/ built-in buzzer	5	DC12V DC24V AC110V-220V		0.70kg 0.70kg 0.73kg	 R-Red  A-Amber  G-Green  B-Blue  W-White

※ AC type model has a free-voltage range of 100V-240V

※ KC Certification: DC24V, CE RED compliant: DC24V, AC110V-220V, FCC Complaint: DC24V, AC110V-220V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	130mA	85mA	Max.65mA
Buzzer current	35mA	30mA	Max.40mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	AI	ABS	AI

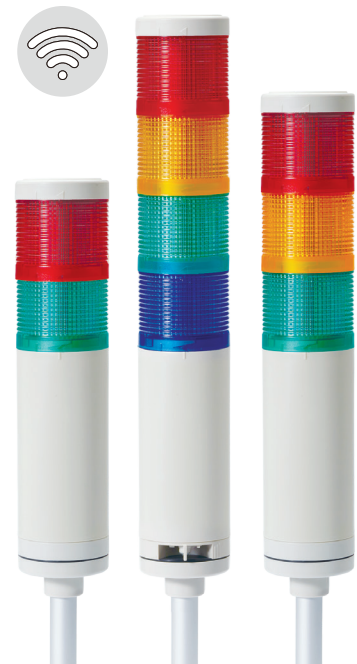
※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Customization

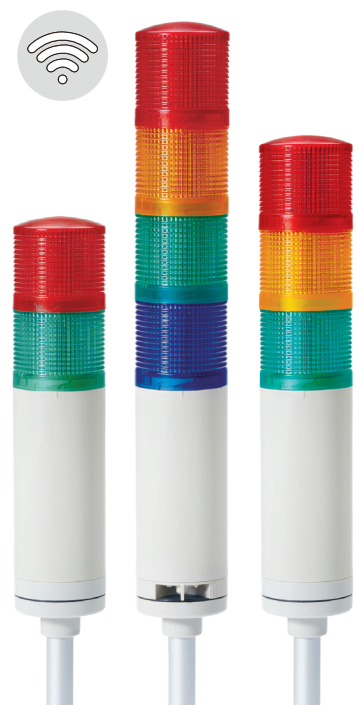
- Customized pole length available
- High volume buzzer option can be fitted to the top of the product(Lens should be within 4 layers)

Ordering Specification

QTG60L-WIZ	-	3	-	110/220	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTG60L-WIZ		1-1 Layer		12-DC12V		R-Red		None-Standard Bracket
QTG60L-WIZ-BZ		2-2 Layers		24-DC24V		A-Amber		-LB18 -LW18
QTG60LF-WIZ		3-3 Layers		110/220-AC110V-220V		G-Green		-QZ18 -SZ18
QTG60LF-WIZ-BZ		4-4 Layers				B-Blue		-QL18 -SL18
QTGA60L-WIZ		5-5 Layers				W-White		
QTGA60L-WIZ-BZ								
QTGA60LF-WIZ								
QTGA60LF-WIZ-BZ								



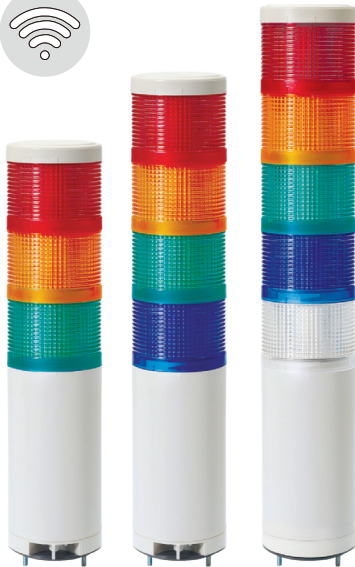
QTG60L-WIZ Series



QTGA60L-WIZ Series

Wireless LED Steady/ Flashing Tower Light

QTG70ML-WIZ



QTG70ML-WIZ Series



QTG70ML-WIZ Ø70mm Direct mount, LED Steady/Flashing Type

Model number	Layers	Voltage	Certificates	Weight	Color
QTG70ML-WIZ Steady	1	DC12V DC24V AC110V-220V		0.38kg 0.38kg 0.41kg	● R-Red
QTG70ML-WIZ-BZ Steady w/built-in buzzer	2	DC12V DC24V AC110V-220V		0.44kg 0.44kg 0.47kg	● R-Red ● G-Green
QTG70MLF-WIZ Steady/Flashing	3	DC12V DC24V AC110V-220V	CE	0.50kg 0.50kg 0.53kg	● R-Red ● A-Amber ● G-Green
QTG70MLF-WIZ-BZ Steady/Flashing w/ built-in buzzer	4	DC12V DC24V AC110V-220V	CE FCC	0.56kg 0.56kg 0.59kg	● R-Red ● A-Amber ● G-Green ● B-Blue
QTGA70ML-WIZ Steady	5	DC12V DC24V AC110V-220V		0.62kg 0.62kg 0.65kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

※ AC type model has a free-voltage range of 100V-240V

※ KC Certification: DC24V, CE RED compliant: DC24V, AC110V-220V, FCC Complaint: DC24V, AC110V-220V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	130mA	85mA	Max.65mA
Buzzer current	35mA	30mA	Max.40mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Customization

- High volume buzzer option can be fitted to the top of the product(Lens should be within 4 layers)
- Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall mount



Wall mount bracket TWS80



Wall mount bracket TWA80

Ordering Specification

QTG70ML-WIZ	-	3	-	110/220	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
QTG70ML-WIZ		1-1 Layer		12-DC12V		● R-Red
QTG70ML-WIZ-BZ		2-2 Layers		24-DC24V		● A-Amber
QTG70MLF-WIZ		3-3 Layers		110/220-AC110V-220V		● G-Green
QTG70MLF-WIZ-BZ		4-4 Layers				● B-Blue
QTGA70ML-WIZ		5-5 Layers				○ W-White
QTGA70ML-WIZ-BZ						
QTGA70MLF-WIZ						
QTGA70MLF-WIZ-BZ						

Wireless LED Steady/ Flashing Tower Light

QTG70L-WIZ



QTG70L-WIZ Ø70mm Pole Mount, LED Steady/Flashing Type

Model number	Layers	Voltage	Certificates	Weight	Color
QTG70L-WIZ Steady	1	DC12V DC24V AC110V-220V	  	0.60kg 0.60kg 0.63kg	 R-Red
QTG70L-WIZ-BZ Steady w/built-in buzzer	2	DC12V DC24V AC110V-220V		0.66kg 0.66kg 0.69kg	 R-Red  G-Green
QTG70LF-WIZ Steady/Flashing					
QTG70LF-WIZ-BZ Steady/Flashing w/ built-in buzzer	3	DC12V DC24V AC110V-220V		0.72kg 0.72kg 0.75kg	 R-Red  A-Amber  G-Green
QTGA70L-WIZ Steady	4	DC12V DC24V AC110V-220V		0.78kg 0.78kg 0.81kg	 R-Red  A-Amber  G-Green  B-Blue
QTGA70L-WIZ-BZ Steady w/built-in buzzer					
QTGA70LF-WIZ Steady/Flashing	5	DC12V DC24V AC110V-220V		0.84kg 0.84kg 0.87kg	 R-Red  A-Amber  G-Green  B-Blue  W-White
QTGA70LF-WIZ-BZ Steady/Flashing w/ built-in buzzer					

※ AC type model has a free-voltage range of 100V-240V

※ KC Certification: DC24V, CE RED compliant: DC24V, AC110V-220V, FCC Complaint: DC24V, AC110V-220V

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	130mA	85mA	Max.65mA
Buzzer current	35mA	30mA	Max.40mA

Wiring Instructions

- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- External signal line - UL1007 AWG22(0.3sq) 400mm
- LED tower light can be wired by using transistor and External Contact

Mounting Bracket

Standard	LB24	LW24	QZ24	SZ24	QL24	SL24
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Customization

- Customized pole length available
- High volume buzzer option can be fitted to the top of the product (Lens should be within 4 layers)

Ordering Specification

QTG70L-WIZ	-	3	-	110/220	-	RAG	-	LW24
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTG70L-WIZ		1-1 Layer		12-DC12V		R-Red		None-Standard
QTG70L-WIZ-BZ		2-2 Layers		24-DC24V		A-Amber		Bracket
QTG70LF-WIZ		3-3 Layers		110/220-AC110V-220V		G-Green		-LB24 -LW24
QTG70LF-WIZ-BZ		4-4 Layers				B-Blue		-QZ24 -SZ24
QTGA70L-WIZ		5-5 Layers				W-White		-QL24 -SL24
QTGA70L-WIZ-BZ								
QTGA70LF-WIZ								
QTGA70LF-WIZ-BZ								



QTG70L-WIZ Series

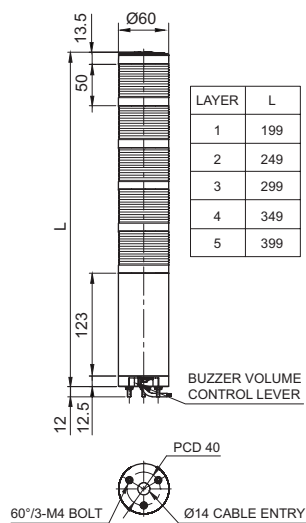


QTGA70L-WIZ Series

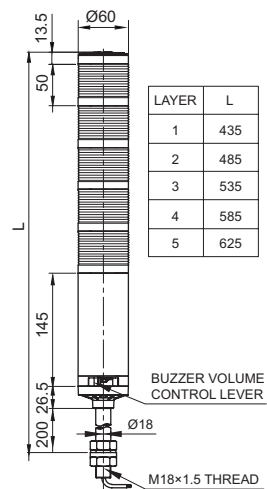
Technical Diagram

Units : mm

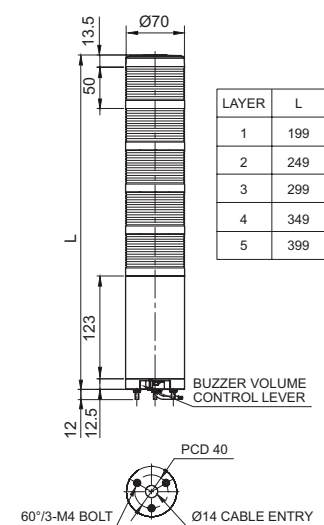
·QTG60ML(F)-WIZ Series



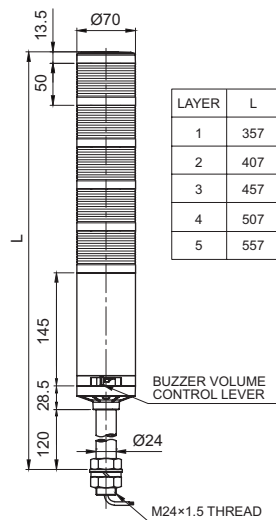
·QTG60L(F)-WIZ Series



·QTG70ML(F)-WIZ Series



·QTG70L(F)-WIZ Series



Wiring Instructions

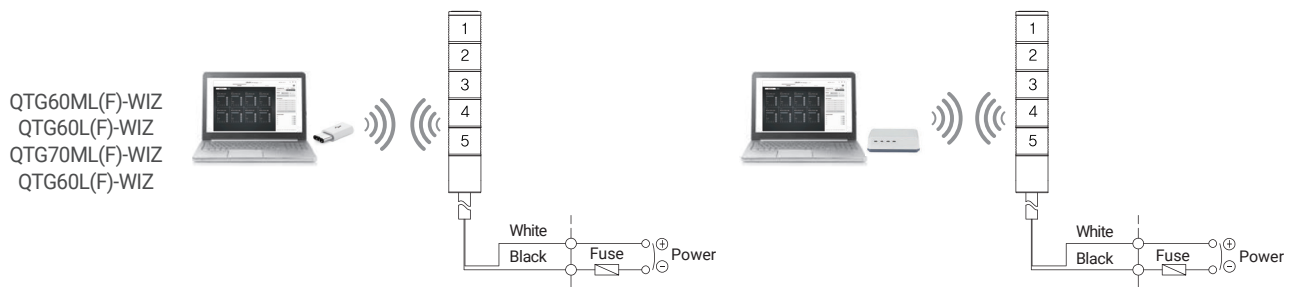
· Please wire the product as followings when you control via wireless network

Connection by USB

AC/DC Steady/
Flashing

Connection via USB Dongle

Connection via Gateway

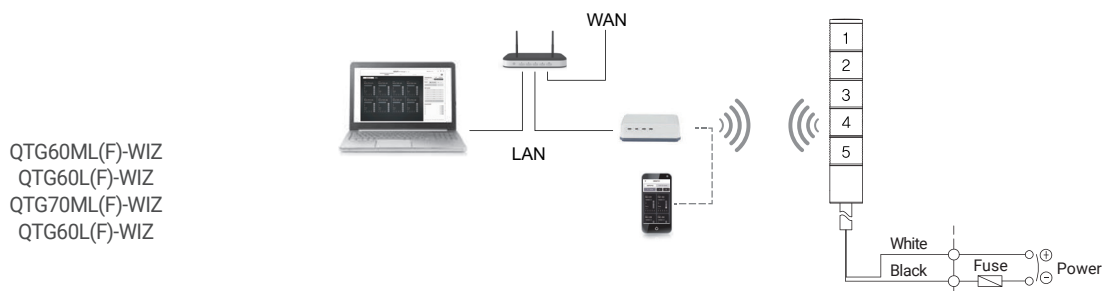


Suitable for single or small-scaled network. Can connect up to 32 devices

Connection by Ethernet

AC/DC Steady/
Flashing

Connection via Gateway and Ethernet Router



Suitable for large-scaled network. One gateway unit is a single group, can connect up to 24 groups, 768 devices (each group can connect to 32 devices)

· AC steady, AC/DC steady/flashing type cable specification: External power line - UL1015 AWG18(0.75sq) x 2C 400mm

Wiring Instructions

- In case of wiring with External Contacts, refer to the wiring diagrams below according to your product's type and voltage setting.
- You can monitor status of tower light and control them via wireless network.

Wiring using external contact		
AC/DC Steady	Standard type	Buzzer type
QTG60ML-WIZ QTG60L-WIZ QTG70ML-WIZ QTG70L-WIZ		
DC Steady/ Flashing	Standard type	Buzzer type
QTG60MLF-WIZ QTG60LF-WIZ QTG70MLF-WIZ QTG70LF-WIZ		
AC Steady/ Flashing	Standard type	Buzzer type
QTG60MLF-WIZ QTG60LF-WIZ QTG70MLF-WIZ QTG70LF-WIZ		

Wiring Instructions

· Wiring to transistor, use the NPN transistor. Please wire properly based on wiring instructions below.

Wiring using transistor		
AC/DC Steady	Standard type	Buzzer type
QTG60ML-WIZ QTG60L-WIZ QTG70ML-WIZ QTG70L-WIZ		
DC Steady/ Flashing	Standard type	Buzzer type
QTG60MLF-WIZ QTG60LF-WIZ QTG70MLF-WIZ QTG70LF-WIZ		
AC Steady/ Flashing	Standard type	Buzzer type
QTG60MLF-WIZ QTG60LF-WIZ QTG70MLF-WIZ QTG70LF-WIZ		

Wireless Multiple Color LED Steady Signal Light

QMCL125-WIZ

Can remotely monitor and control the status of light units using a PC or smartphone



QMCL125-WIZ

PRODUCT SPECIFICATION

QMCL125-WIZ
QMCL125-WIZ-BZ

Materials Lens-PC, Housing-ABS
Ambient operating temperature -30°C to +50°C
Volume Max. 80dB at 1m
Protection rating IP65
Compliant with RoHS directive

- Allows you to build an advanced production network system with a low cost
- Uses a Mesh Topology that operates in 2.4 GHz Short-Range wireless technology which ensures the communication reliability in harsh environments
- Multi-hop function of the signaling device enables a stable long-distance communication(with up to 100M between devices)
- Cost-effective by requiring no additional cable when change the layout of production lines
- Wireless communication protocol : Zigbee(IEEE802.15.4)
- Can generate 7 color light signals in one light unit
- Translucent color when off, the soft LED illuminates designated colors when on

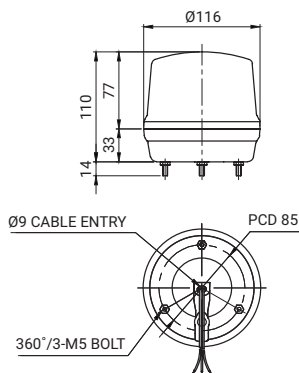
Wiring Instructions

- External signal line : Signal line 4P (R,G,B,K) threading, signal line standard UL1007 AWG22(0.3sq) 400mm
- Please refer to Wiring Instructions diagram to properly configure color options

Technical Diagram

Units : mm

QMCL125-WIZ



QMCL125-WIZ Ø125mm Wireless Multiple Color LED Steady Signal Lights

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

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V
Light source current(1 layer)	300mA	185mA
Buzzer current	70mA	40mA

Customization

- Wall Mounting bracket options :
Bracket structure allows for threading through the bracket hole or into the wall mount



Wall mount bracket SWP125

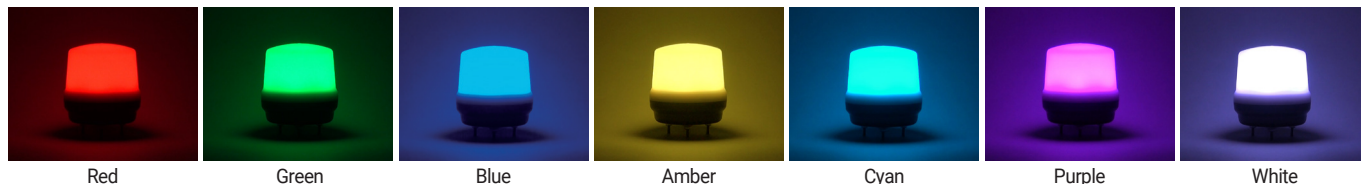


Wall mount bracket SWM125

Ordering Specification

QMCL125-WIZ	-	BZ	-	24
[Model number]		[Buzzer]		[Voltage]
QMCL125-WIZ		None - No buzzer		12-DC12V
QMCL125-WIZ-BZ		BZ- Built-in buzzer		24-DC24V

Signal Color Options





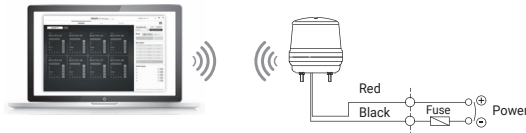
Wiring Instructions

- External power line - UL1015 18AWG(0.75sq)400mm
- External signal line - UL1007 22AWG(0.3sq) 400mm
- Please refer to Wiring Instructions diagram to properly configure wireless network option

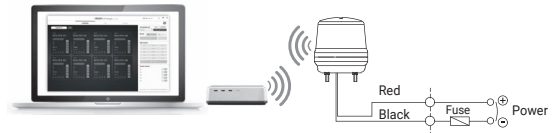
Connection by USB

Connection via USB Dongle

QMCL125-WIZ



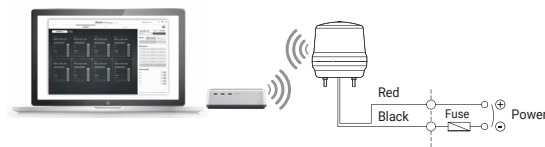
Connection via Gateway



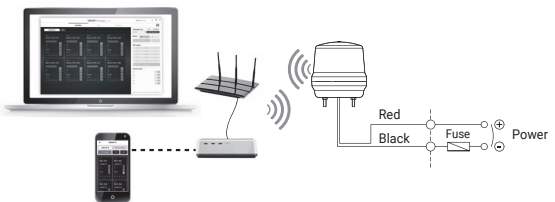
Connection by Ethernet

Ethernet Connection via Gateway

QMCL125-WIZ



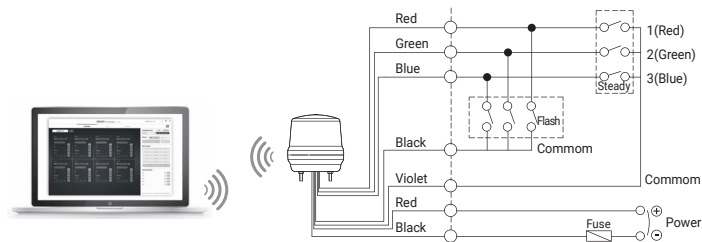
Ethernet Connection via Gateway and Ethernet Router



- Please refer to the wiring instructions diagram below to properly configure the external contact.

Wiring using external contact

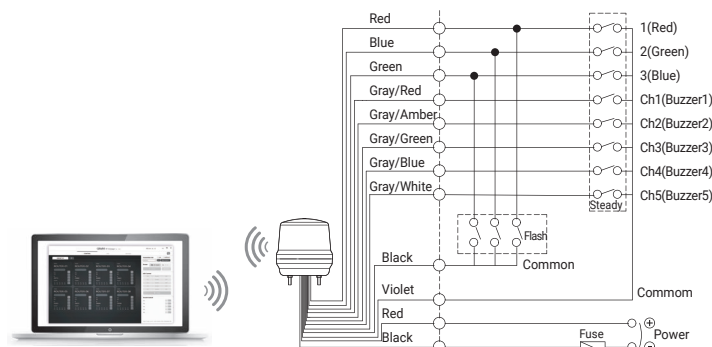
QMCL125-WIZ



· Wiring Configuration for Signal Color

No.	Color	wiring
1	Red	1(RED)
2	Green	2(GREEN)
3	Blue	3(BLUE)
4	Amber	1(RED)+2(GREEN)
5	Cyan	2(GREEN)+3(BLUE)
6	Purple	1(RED)+3(BLUE)
7	White	1(RED)+2(GREEN)+3(BLUE)

QMCL125-WIZ-BZ



· Wiring Configuration for Signal Color

No.	Color	wiring
1	Red	1(RED)
2	Green	2(GREEN)
3	Blue	3(BLUE)
4	Amber	1(RED)+2(GREEN)
5	Cyan	2(GREEN)+3(BLUE)
6	Purple	1(RED)+3(BLUE)
7	White	1(RED)+2(GREEN)+3(BLUE)

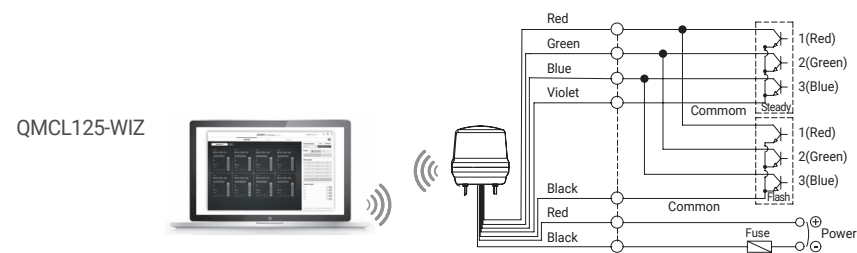
QMCL125-WIZ



Wiring Instructions

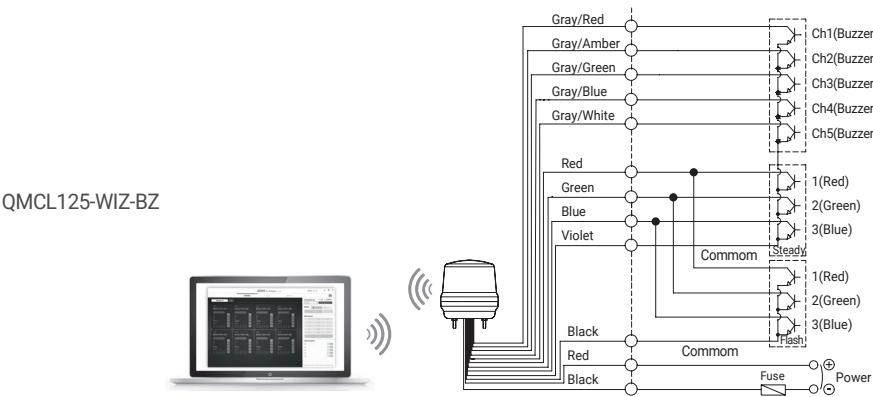
· Please refer to the wiring instructions diagram below for proper wiring when using a transistor.

Wiring using transistor



· Wiring Configuration for Signal Color

No.	Color	wiring
1	Red	1(RED)
2	Green	2(GREEN)
3	Blue	3(BLUE)
4	Amber	1(RED)+2(GREEN)
5	Cyan	2(GREEN)+3(BLUE)
6	Purple	1(RED)+3(BLUE)
7	White	1(RED)+2(GREEN)+3(BLUE)



· Wiring Configuration for Signal Color

No.	Color	wiring
1	Red	1(RED)
2	Green	2(GREEN)
3	Blue	3(BLUE)
4	Amber	1(RED)+2(GREEN)
5	Cyan	2(GREEN)+3(BLUE)
6	Purple	1(RED)+3(BLUE)
7	White	1(RED)+2(GREEN)+3(BLUE)

WIZ32



A device that receives data wirelessly in connection with a wireless signal information device

PRODUCT SPECIFICATION

WIZ32(USB Dongle)

Materials ABS
Ambient operating temperature -25°C to +50°C
Compliant with RoHS directive

- A device that receives data from a wireless signal information device, suitable for a small single wireless network.
- Controlling of wireless signaling device through two-way communication
- Up to 32 of wireless signaling device can be connected
- Separate power supply is not required, and only USB Dongle is connected to PC.
- Wireless communication standard: IEEE 802.15.4 Standard
- Data rate: 250Kbps



WIZ32(USB Dongle)

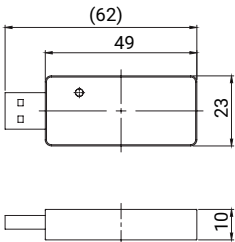
WIZ32(USB Dongle) Wireless network system receiving device

Model number	Voltage	Interface	Wireless standard	Radio frequency/ number of channels	Certificates	Weight
WIZ32	USB 5V	USB2.0	IEEE 802.15.4 Standard	2405MHz-2480MHz(16ch)	 CE FC	0.01kg

Technical Diagram

Units : mm

· WIZ32





GW768(GATEWAY)

PRODUCT SPECIFICATION

GW768(GATEWAY)

Materials ABS

Ambient operating temperature -25°C to +50°C

Compliant with RoHS directive

- A device that receives data from a wireless signal information device, suitable for a small single wireless network.
- Controlling of wireless signaling device through two-way communication
- Up to 32ea of wireless signaling device can be connected per gateway
- Up to 24ea of device can be connected via LAN using Ethernet communication (Maximum 768ea of wireless signaling device can be connected)
- Information transmission to administrators and controlling real-time using a mobile app
- Wireless communication standard: IEEE 802.15.4 Standard
- Data rate: 250Kbps

GW768(GATEWAY) Wireless network system receiving device

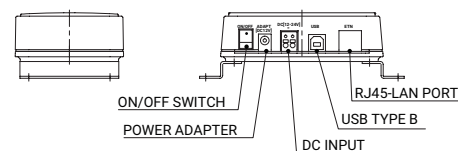
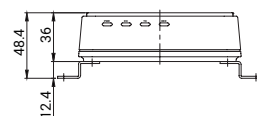
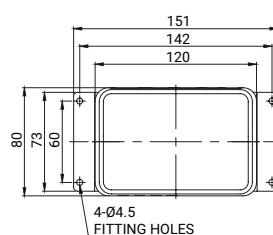
Model number	Voltage	Current	Interface	Wireless standard	Radio frequency/ number of channels	Certificates	Weight
GW768	DC12-24V	Max. 510mA	USB2.0 /Ethernet	IEEE 802.15.4 Standard	2405MHz-2480MHz(16ch)		0.25kg
	AC110-220V	Max. 115mA					

※ KC compliant: DC12V

Technical Diagram

Units : mm

GW768



Ordering Specifications

GW768	-	12/24
[Model number]		[Voltage]
GW768		12/24-DC12V-24V 110/220-AC110V-220V

Signal phone for CAN communication panel

CPK-CAN



PRODUCT SPECIFICATION

CPK-CAN

Materials ABS
Ambient operating temperature -25°C to +50°C
Protection rating IP65
Volume Max.85dB at 1m
Compliant with RoHS directive

- Panel type signal phone that outputs clear and cheerful 8-48Khz MP3 Audio harmony by applying industrial CAN communication
- Up to 255ea of frame IDs can be set by software manager
- Can select and play 255 songs using CAN communication
- Save MP3 sound source using USB C-TYPE cable
- Supports 128Mbyte storage capacity (File format: FAT)
- Support CAN communication standard format 2.0A, Extended format 2.0B
- Supports 4 communication speeds: 125Kbps, 250Kbps, 500Kbps, 1Mbps



CPK-CAN

CPK-CAN Signal phone for CAN communication panel, Max.85dB

Model number	Sound type	Volume	Voltage	Current	Certificates	Weight
CPK-CAN	MP3 File (255 Sounds)	Max.85dB	DC12V-24V	Max.600mA	CE	0.21kg

※ DC type model has a free-voltage range of 10V-36V

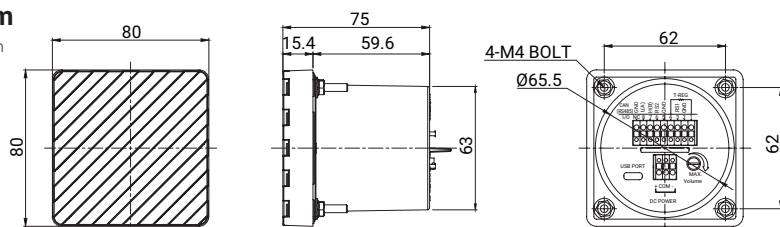
※ When playing MP3 files, there may be difference of volume depending on user's audio file type.



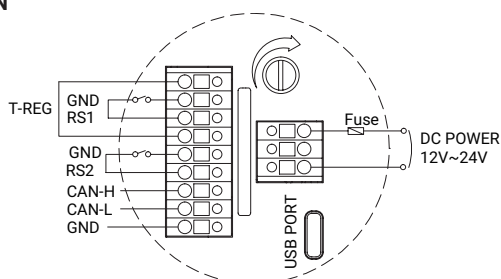
Terminal box for Signal phone for CAN communication panel (back side)

Technical Diagram

Units: mm



Wiring Instructions



Ordering Specification

CPK-CAN	-	12/24	-	2.0A
[Model number]		[Voltage]		[CAN]
CPK-CAN		12/24-DC12V-24V		2.0A-CAN 2.0A(standard format) 2.0B-CAN 2.0B(Extended format)

CPK-RS485



CPK-RS485

PRODUCT SPECIFICATION

CPK-RS485

Materials ABS**Ambient operating temperature** -25°C to +50°C**Volume** Max.85dB at 1m**Protection rating** IP65**Compliant with RoHS directive**

- Panel type signal phone that outputs clear and cheerful 8-48Khz MP3 Audio harmony by applying industrial RS485 communication
- Up to 255ea of frame IDs can be set by software manager
- Can select and play 255 songs using RS485 communication
- Save MP3 sound source using USB C-TYPE cable
- Supports 128Mbyte storage capacity (File format: FAT)
- Supports 4 communication speeds: 9600bps, 19200bps, 38400bps, 115200bps

CPK-RS485 Signal phone for RS485 communication panel

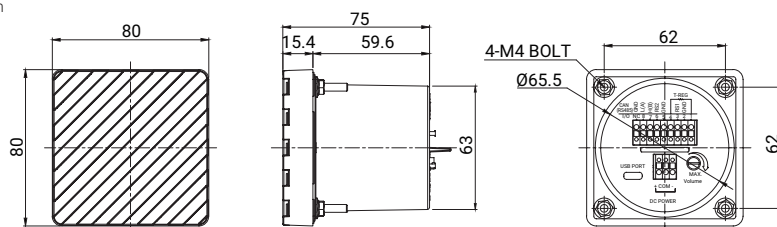
Model number	Sound type	Volume	Voltage	Current	Certificates	Weight
CPK-RS485	MP3 File (255 Sounds)	Max.85dB	DC12V-24V	Max.600mA	CE	0.21kg

※ DC type model has a free-voltage range of 10V-36V

※ When playing MP3 files, there may be difference of volume depending on user's audio file type.

Technical Diagram

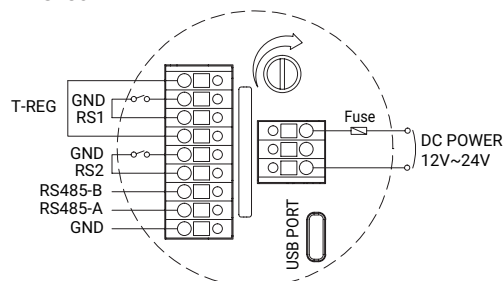
Units: mm



Terminal box for Signal phone
for RS485 communication
panel(back side)

Wiring Instructions

-CPK-RS485



Ordering Specification

CPK-RS485

[Model number]

CPK-RS485

12/24

[Voltage]

12/24-DC12V-24V

USB/Ethernet Signal Tower Lights

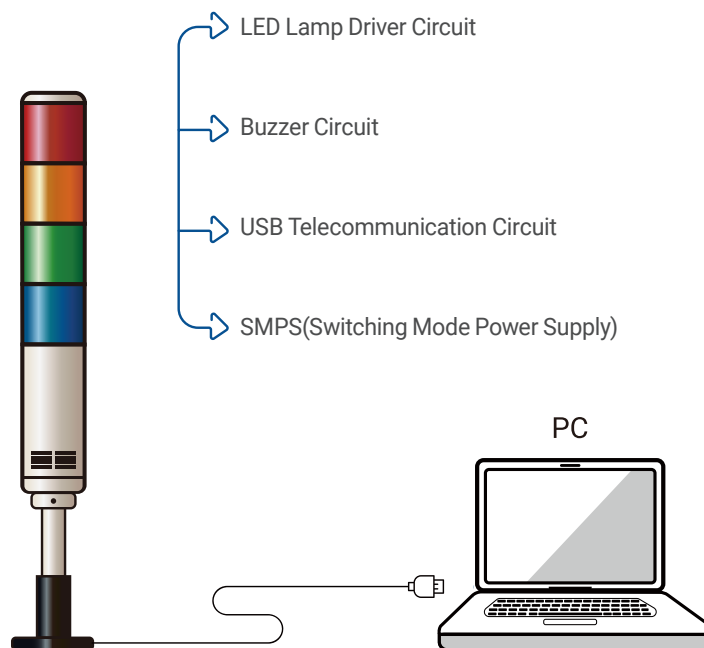


USB Technical Information	P. 42
Product Specifications	P. 47
Product Information	P. 50
Ethernet Technical Information	P. 63
Product Specifications	P. 71
Product Information	P. 73

Technical Data for USB Type LED Tower Light

Can be connected to the USB port of your PC without any additional power supply

- The LED tower light that is fully controllable by the PC application program of a PC via an USB port connection
- The USB communication cable is comprised of VCC, D-, D+, GND, and Shield
- Uses 2 DC 5V/500mA rated Personal Computer (PC) USB for its power
- Available on hosts that support USB 1.1 or higher
- Provides MS Runtime libraries for developers to utilize on various PC applications
- Built-in clear melody, alarm sound, the type of sound can be chosen when ordered
- Supported Program : VC++, VB, Delphi(32bit only), C#(64bit only)
- Supported Program : VC++, VB, Delphi(32bit only), C#(64bit only)
- Qlight's USB Tower Light is a LED tower lamp connected to a USB interface and controlled by a PC program. These products work on hosts that support USB 1.1 or higher and allow up to 4 USB Tower Light connections per PC
- Supports Low speed (1.5Mbps) and Full speed (12Mbps) communication
- Provides MS Runtime libraries for developers(VC++, VB, Delphi) to utilize in various PC applications. A sample program (VC++) is available for testing purposes.
- The product uses device drivers in the PC for built-in HID (Human Interface Devices). Therefore, the operating system (OS) does not need a separate driver to control and to communicate with the LED Tower Light through the PC application Native support for 32bit OS, and supports 64bit in Windows XP, Win7. For other OS, please contact us(32bit 64bit)



※ Image to the left shows the Tower Light Connections.

1. Basic USB Information

USB is an abbreviation for Universal Serial Bus, a PC peripheral bus standard developed to satisfy the industries growing need in the mid-1990s for a new interconnection between computers and electronic devices. Developed by companies such as Intel, Microsoft, Compaq, IBM, NEC, Nortel, DEC etc. the USB can connect up to 127 devices without reboot or setup for new peripherals. Data transfer speed have been improving rapidly.

Communication	DEVICE CLASS CODE	INTERFACE CLASS CODE
Audio Interface	0 x 00	0 x 01
Communication Device	0 x 02	-
HID	0 x 00	0 x 00
HUB	0 x 09	0 x 09
Storage	0 x 00	0 x 08
Monitor	Same as HID	Same as HID
Print	-	0 x 07

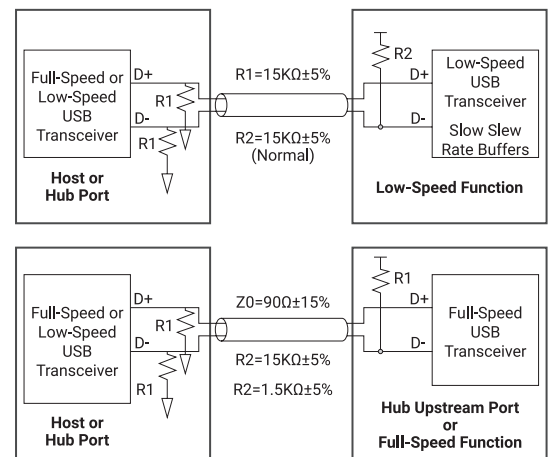
*HID(Human Interface Devices)?

Interface Device (HID). These devices can be used to control the PC. A typical HID device includes a mouse, keyboard, joystick, etc.

The data from the devices is sent to the host(PC) by a "interrupt" type IN-endpoint format.

2. CONNECTION

The process of connecting and detecting the device to the USB port is called "the initial determination". After "the initial determination" is made, the host PC requests the device's specific role and the function is then specified by the Descriptor. At that moment the device and the PC periodically exchanges requests, and the descriptor. This process is called "Enumeration". After the finishing the "enumeration" process the PC detects the device and registers it as a USB Device. When the registration is completed, the USB Device exchanges data and perform its designated function.



The process how the USB Device is connected to the PC

- ① When you connect a USB Device to the PC, Device is powered on.
- ② Normally the D+, D- of the PC is on low signal with both D+ and D- having pull down resistors of 15K Ω .
- ③ A full speed USB Device has a pull-up resistor of 1.5K Ω hung on D+, Low speed devices on the other hand have a pull-up resistor of 1.5K Ω on the D-.
- ④ Therefore, the PC usually has a low signal on the data line but when the USB device is connected the PC it detects the high signal of the data line and notifies the host of the USB device connection.

Technical Data for USB Type LED Tower Light

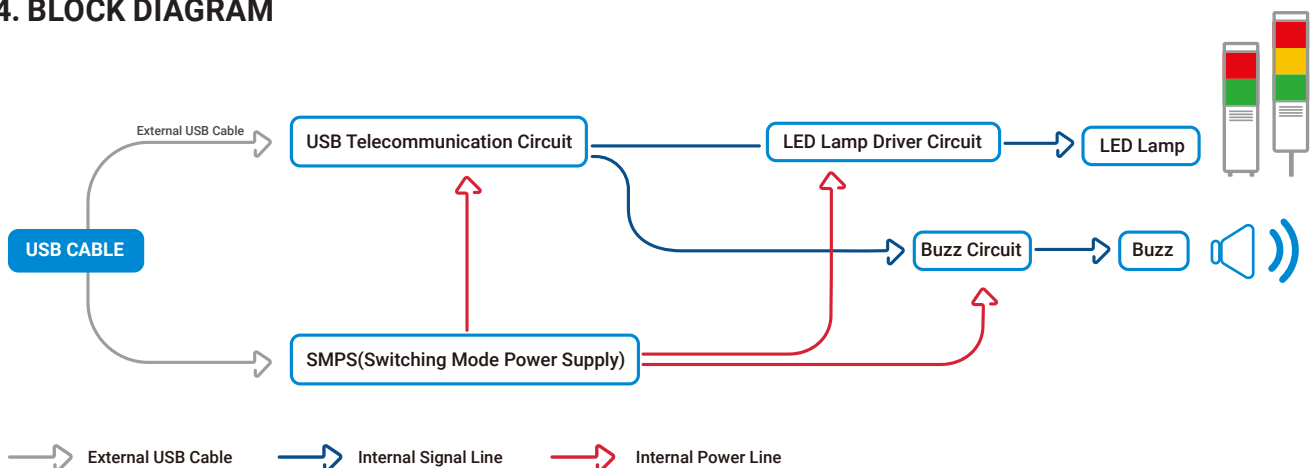
3.Communication data format of the USB product

Developers can use the programming format below to control the LED USB Tower light via PC.
For detailed programing information, please see the reference code that is provided separately.

PC to USB TOWER LAMP

No.	TYPE	ABB	DESCRIPT	Size(Byte)
1	DEVICE INFORMATION	VID	VENDOR ID : 0x04D8(Provided by IC manufacturer)	2
2		PID	PRODUCT ID: 0xE73C(QLIGHT ID)	2
3		INDEX	1. Maximum of 4 USB tower lights can be installed per PC. 2. Field value helps to distinguish each USB tower light. 3. Reference - USB0 : 0x4970/ USB1 : 0x4971/ USB2 : 0x4972/ usb3 : 0x4973 4. Assign 0-3 for convenient use in IBM PC environment.	2
1	DATA	Write	1. Send 'W=0x57' which means transferring the data from PC to USB.	1
2		Sound Group	1. Field for sound pattern designation. 0 : WS/ 1 : WP/ 2 : WM/ 3 : WA/ 4 : WB/ 5 : BZ/ 6 : WM(8)/ 7 : WA(8) 2. Total 8 groups are provided and each group has channel 1 to 5.	1
3		R LAMP	1. Field for controlling Red lamp. 2. Reference - 0 : LAMP OFF/ 1 : LAMP BLINK(ON/OFF)/ 2 : LAMP ON/ Else : Don't care	1
4		A LAMP	1. Field for controlling Amber lamp. 2. Reference - 0 : LAMP OFF/ 1 : LAMP BLINK(ON/OFF)/ 2 : LAMP ON/ Else : Don't care	1
5		G LAMP	1. Field for controlling Green lamp. 2. Reference - 0 : LAMP OFF/ 1 : LAMP BLINK(ON/OFF)/ 2 : LAMP ON/ Else : Don't care	1
6		B LAMP	1. Field for controlling Blue lamp. 2. Reference - 0 : LAMP OFF/ 1 : LAMP BLINK(ON/OFF)/ 2 : LAMP ON/ Else : Don't care	1
7		W LAMP	1. Field for controlling White lamp. 2. Reference - 0 : LAMP OFF/ 1 : LAMP BLINK(ON/OFF)/ 2 : LAMP ON/ Else : Don't care	1

4. BLOCK DIAGRAM

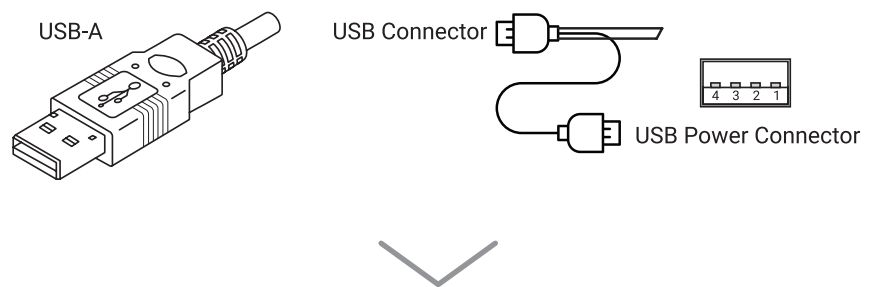


5. SPECIFICATION

Category	Specification	Category	Specification
Tower light	·Layers(Layer): 1-5 ·Voltage(Voltage): DC12V ·Current(Current): 300mA ·Color(Color): ● Red ● Amber ● Green ● Blue ○ White	Cable	1. VCC (Red) 2. D- (White) 3. D+ (Green) 4. GND (Black) 5. Shield
Speaker	·Speaker Rated(Rated): 1W ·Volume(Volume): Max. 85dB at 1m	Buzzer	·Voltage(Voltage): DC12V ·Current(Current): 20mA ·Volume(Volume): Max.90dB at 1m
USB standard	·Available on hosts that support USB 1.1 or higher ·5V/500mA rated (uses 2 USB port)	Input voltage	·USB DC5V×2PORT (Built-in 5V To 12V converter)

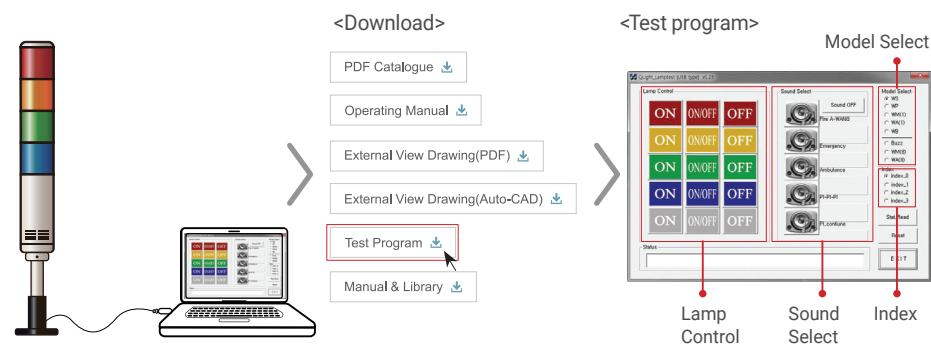
6. USB CABLE

1. The power consumption of a USB Tower light(3 layers type) is only about 2.5W.
2. The USB specification is 5VDC/(300mA/500mA) per PC port which equals approximately 1.5W.
Thus, using two ports will supply the proper power to the product.
3. It is possible to use multiple colors at the same time by using the USB power supply, but using one lamp and one alarm sound at a time is recommended.
4. There are two types of USB connections as shown in the image below; a standard USB connector and a USB power connector with a power line connected in parallel.



Pin	Name	WIRE Color	Description
1	VCC	RED	+5V
2	D-	WHITE	Data-
3	D+	GREEN	Data+
4	GND	BLACK	Ground

7. Use of the USB device



1. Connect the USB tower light to the PC as shown in the illustration above.
2. Download the test program from the provided CD or from our homepage.
3. The downloaded sample program will be saved as "USB Test Program.zip".
When you unzip the file, there will be a file with the names below.

 **QLight_Lamptest_USB.exe**
[Test program]

 **QUvc_dll.dll**
[Required library for test program]

※ When developing the program, please download and refer to the file "manual and library" (sample programs and manuals for developers).

4. When you run the "QLight lamptest_usb.exe" file, a test programs will show up as above.
Product's sound options are classified as WS/WP/WA/WM/BZ. The product will only play the sound option selected when the order was placed.

Article	Detailed specification
Lamp Control	- ON: Lamp turns on when the button is clicked - ON/OFF: Lamp flashes when the button is clicked - OFF: Lamp turns off when the button is clicked
Sound Select	- 1ch-5ch: Has 5 sounds per model, turns on the chosen sound - Click "Sound off" button to turn off the sound
Model Select	- WS : 5 warning sounds(mono) - WP : 5 special warning sounds(mono) - WM(1) : 5 Melodies(mono) - WA(1) : 5 alarms(mono) - WB : Software Buzzer 5 sounds(speaker type) - Buzzer : 5 Buzzer sounds
Index	- You can connect up to a Maximum of 4 USB Tower lights per PC - Must be controlled by selecting Index0 - Index3 for controlling the USB tower light. The default is set to Index0

Specification List for USB LED Tower Lights



Model number	ST45ML-USB	ST45L-USB	ST56MEL-USB	ST56EL-USB	ST80MEL-USB	ST80EL-USB
Voltage	USB DC5V	USB DC5V	USB DC5V	USB DC5V	USB DC5V	USB DC5V
Outdia	Ø45	Ø45	Ø56	Ø56	Ø80	Ø80
Height	198-358	412-572	192-352	406-566	230-390	367-527
Depth						
Material	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady/ Flashing	●	●	●	●	●
Buzzer sound	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m
Signal sounds	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m
Layer color change	Yes	Yes	Yes	Yes	Yes	Yes
Mount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24
Protection rating	IP23	IP23	IP23	IP23	IP23	IP23
Usage place	Indoor Use	Indoor Use	Indoor Use	Indoor Use	Indoor Use	Indoor Use
Certificates	CE	CE	CE	CE	-	-
Customization	Customized color arrangements, Wall mount bracket	Customized color arrangements, Pole length adjustment	Customized color arrangements, 70mm lens height, Wall mount bracket	Customized color arrangements, 70mm lens height, Pole length adjustment	Customized color arrangements, 70mm lens height, Wall mount bracket	Customized color arrangements, 70mm lens height, Pole length adjustment
Page	P50	P50	P51	P51	P52	P52



Model number	QTG50ML-USB	QTG50L-USB	QTG60ML-USB	QTG60L-USB	QTG70ML-USB	QTG70L-USB
Voltage	USB DC5V	USB DC5V	USB DC5V	USB DC5V	USB DC5V	USB DC5V
Outdia	Ø50	Ø50	Ø60	Ø60	Ø70	Ø70
Height	204-364	432-592	199-399	435-635	199-399	357-557
Depth						
Material	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS
Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady/ Flashing	●	●	●	●	●
Buzzer sound	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m
Layer color change	Yes	Yes	Yes	Yes	Yes	Yes
Mount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24
Protection rating	IP54	IP54	IP54	IP54	IP54	IP54
Usage place	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor
Certificates	CE	CE	CE	CE	CE	CE
Customization	Customized color arrangements, Wall mount bracket	Customized color arrangements, Pole length adjustment	Customized color arrangements, Wall mount bracket	Customized color arrangements, Pole length adjustment	Customized color arrangements, Wall mount bracket	Customized color arrangements, Pole length adjustment
Page	P54-55	P54-55	P54-55	P54-55	P56	P56

Specification List for USB LED Tower Lights



Model number	QTC50ML-USB	QTC50L-USB	QTC60ML-USB	QTC60L-USB	QTC70ML-USB	QTC70L-USB
Voltage	USB DC5V	USB DC5V	USB DC5V	USB DC5V	USB DC5V	USB DC5V
Dimension (mm)	Outdia	Ø50	Ø50	Ø60	Ø60	Ø70
	Height	204-364	432-592	199-399	435-635	199-399
	Depth					
Material	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS
Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady/Flashing	●	●	●	●	●
Sound & Volume	Buzzer sound	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m
Layer color change	Yes	Yes	Yes	Yes	Yes	Yes
Mount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24
Protection rating	IP54	IP54	IP54	IP54	IP54	IP54
Usage place	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor
Certificates	CE	CE	CE	CE	CE	CE
Customization	Customized color arrangements, Wall mount bracket	Customized color arrangements, Pole length adjustment	Customized color arrangements, Wall mount bracket	Customized color arrangements, Pole length adjustment	Customized color arrangements, Wall mount bracket	Customized color arrangements, Pole length adjustment
Page	P57	P57	P58	P58	P59	P59



Model number	QTR50ML-USB	QTR50L-USB	QTR60ML-USB	QTR60L-USB	QTR70ML-USB	QTR70L-USB
Voltage	USB DC5V	USB DC5V	USB DC5V	USB DC5V	USB DC5V	USB DC5V
Dimension (mm)	Outdia	Ø50	Ø60	Ø60	Ø70	Ø70
	Height	204-364	432-592	199-399	435-635	199-399
	Depth					
Material	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS
Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady/Flashing	●	●	●	●	●
Sound & Volume	Buzzer sound	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m
Layer color change	Yes	Yes	Yes	Yes	Yes	Yes
Mount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24
Protection rating	IP54	IP54	IP54	IP54	IP54	IP54
Usage place	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor
Certificates	-	-	-	-	-	-
Customization	Customized color arrangements, Wall mount bracket	Customized color arrangements, Pole length adjustment	Customized color arrangements, Wall mount bracket	Customized color arrangements, Pole length adjustment	Customized color arrangements, Wall mount bracket	Customized color arrangements, Pole length adjustment
Page	P60-61	P60-61	P60-61	P60-61	P62	P62

Specification List for USB LED Tower Lights

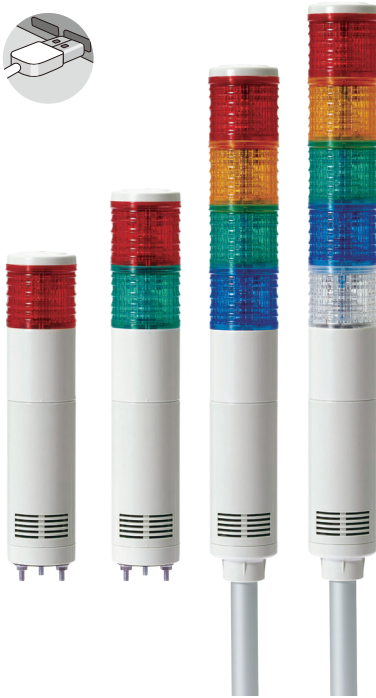
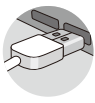


Model number		STDEL-USB
Voltage		DC12V, DC24V AC110V, AC220V
Dimension (mm)	Outdia	Ø80(Lens) Ø119(Body)
	Height	284-444
	Depth	
Material		Lens-AS Housing-ABS
Layers		1-5 Layers
Light source & Operation	LED Steady/ Flashing	•
	LED Strobe	
	LED Simulated revolving	
Sound & volume	Buzzer sound	
	Signal sounds	Max. 105dB at 1m
Layer color change		Yes
Mount bracket		Direct mount
Bracket		-
Protection rating		IP54
Usage place		Indoor/Outdoor Use
Certificates		-
Customization		Customized color arrangements, 70mm lens height
Page		P53

Ø45mm USB LED Tower Lights

ST45(M)L-USB

Connected to PC USB port without power supply unit



ST45(M)L-USB Series

PRODUCT SPECIFICATION

ST45(M)L-USB
ST56, 80(M)EL-USB

Buzzer sounds Max.90dB at 1m

Warning sounds Max.85dB at 1m(Based on WS-Ch1)

Protection rating IP23

Compliant with RoHS directive

- Software controls the steady/flashing function
 - USB control port and power supply port are provided with product
 - The number of activated LED lights are limited to the capacity of USB port current
 - Multiple connections on 1 PC is optionally available (up-to 4 units)
 - LED module Standard Operation
- 2 layers will operate at the same time : ST56EL-USB / ST56MEL-USB / ST80EL-USB / ST80MEL-USB
- 3 layers will operate at the same time : ST45L-USB / ST45ML-USB

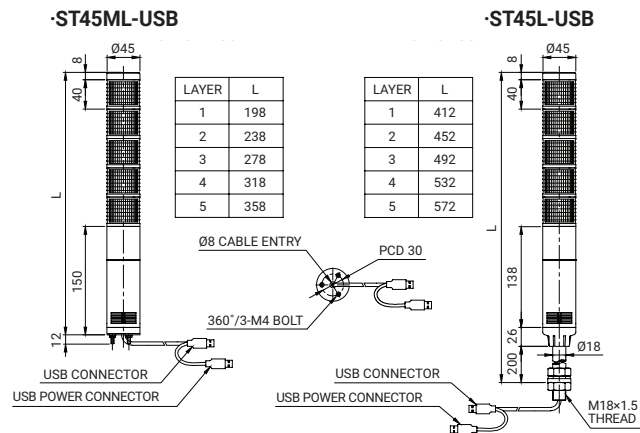


ST45L-USB Ø45mm Pole Mount USB LED Tower Light

Model number	Layers	Certificates	Color
ST45L-USB-BZ	5 Buzzer sounds	1 layer	1 layer: ● R
ST45L-USB-WS	5 Warning sounds	2 layers	2 layers: ● R ● G
ST45L-USB-WM	5 Melodies	3 layers	3 layers: ● R ● A ● G
ST45L-USB-WA	5 Alarms	4 layers	4 layers: ● R ● A ● G ● B
		5 layers	5 layers: ● R ● A ● G ● B ● W

Technical Diagram

Units : mm



ST45ML-USB Ø45mm Direct Mount USB LED Tower Light

Model number	Layers	Certificates	Color
ST45ML-USB-BZ	5 Buzzer sounds	1 layer	1 layer: ● R
ST45ML-USB-WS	5 Warning sounds	2 layers	2 layers: ● R ● G
ST45ML-USB-WM	5 Melodies	3 layers	3 layers: ● R ● A ● G
ST45ML-USB-WA	5 Alarms	4 layers	4 layers: ● R ● A ● G ● B
		5 layers	5 layers: ● R ● A ● G ● B ● W

Mounting bracket

Standard LB18 LW18 QZ18



Steel Steel ABS ABS

SZ18 QL18 SL18



AI ABS AI

※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



Wall mount bracket TWS45



Wall mount bracket TWA45

Ordering Specification

ST45L-USB-BZ	-	3	-	RAG	-	LW18
[Model number]		[Layers]		[Color]		[Bracket]
ST45L-USB-BZ		1-1 Layer		● R-Red		None-Standard
ST45L-USB-WS		2-2 Layers		● A-Amber		Bracket
ST45L-USB-WM		3-3 Layers		● G-Green		-LB18 -LW18
ST45L-USB-WA		4-4 Layers		● B-Blue		-QZ18 -SZ18
ST45ML-USB-BZ		5-5 Layers		○ W-White		-QL18 -SL18
ST45ML-USB-WS						
ST45ML-USB-WM						
ST45ML-USB-WA						

※ Mount brackets are available for the pole mount type(ST45L-USB series) only.

Ø56mm USB LED Tower Lights

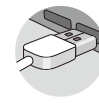
ST56(M)EL-USB



Connected to PC USB port without power supply unit

ST56EL-USB Ø56mm Pole Mount USB LED Tower Light

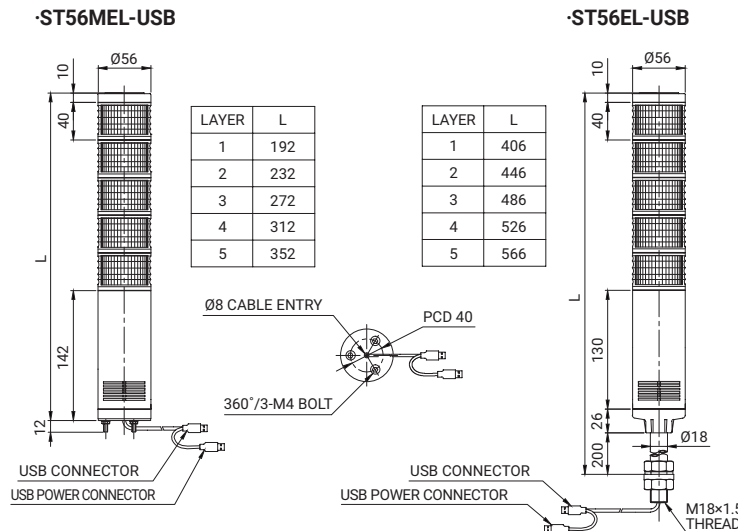
Model number		Layers	Certificates	Color
ST56EL-USB-BZ	5 Buzzer sounds	1 layer	CE	1 layer: R
ST56EL-USB-WS	5 Warning sounds	2 layers		2 layers: R G
ST56EL-USB-WM	5 Melodies	3 layers		3 layers: R A G
ST56EL-USB-WA	5 Alarms	4 layers		4 layers: R A G B
		5 layers		5 layers: R A G B W



ST56(M)EL-USB Series

Technical Diagram

Units : mm



ST56MEL-USB Ø56mm Direct Mount USB LED Tower Light

Model number		Layers	Certificates	Color
ST56MEL-USB-BZ	5 Buzzer sounds	1 layer	CE	1 layer: ● R
ST56MEL-USB-WS	5 Warning sounds	2 layers		2 layers: ● R ● G
ST56MEL-USB-WM	5 Melodies	3 layers		3 layers: ● R ● A ● G
ST56MEL-USB-WA	5 Alarms	4 layers		4 layers: ● R ● A ● G ● B
		5 layers		5 layers: ● R ● A ● G ● B ○ W

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specification

ST56EL-USB-WS	-	3	-	RAG	-	QL18
[Model number]		[Layers]		[Color]		[Bracket]
ST56EL-USB-BZ		1-1 Layer		● R-Red		None-Standard
ST56EL-USB-WS		2-2 Layers		● A-Amber		Bracket
ST56EL-USB-WM		3-3 Layers		● G-Green		-LB18 -LW18
ST56EL-USB-WA		4-4 Layers		● B-Blue		-QZ18 -SZ18
ST56MEL-USB-BZ		5-5 Layers		○ W-White		-QL18 -SL18
ST56MEL-USB-WS						
ST56MEL-USB-WM						
ST56MEL-USB-WA						

※ Mount brackets are available for the pole mount type(ST56EL-USB series) only.

Wiring Instructions

- Connect both USB connector and USB power connector to PC



Customization

- Customized color arrangement available
- Customized pole length available
- 70mm lens height(Standard: 40mm)
- Wall mount bracket



Ø80mm USB LED Tower Lights

ST80(M)EL-USB

Connected to PC USB port without power supply unit



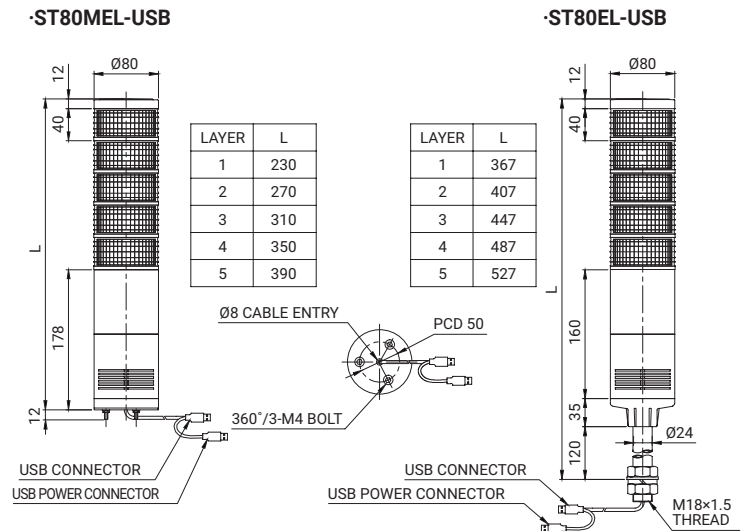
ST80(M)EL-USB Series

ST80EL-USB Ø80mm Pole Mount USB LED Tower Light

Model number	Layers	Certificates	Color
ST80EL-USB-BZ	5 Buzzer sounds	1 layer	1 layer: ● R
ST80EL-USB-WS	5 Warning sounds	2 layers	2 layers: ● R ● G
ST80EL-USB-WM	5 Melodies	3 layers	3 layers: ● R ● A ● G
ST80EL-USB-WA	5 Alarms	4 layers	4 layers: ● R ● A ● G ● B
		5 layers	5 layers: ● R ● A ● G ● B ○ W

Technical Diagram

Units : mm

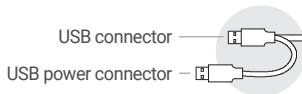


ST80MEL-USB Ø80mm Direct Mount USB LED Tower Light

Model number	Layers	Certificates	Color
ST80MEL-USB-BZ	5 Buzzer sounds	1 layer	1 layer: ● R
ST80MEL-USB-WS	5 Warning sounds	2 layers	2 layers: ● R ● G
ST80MEL-USB-WM	5 Melodies	3 layers	3 layers: ● R ● A ● G
ST80MEL-USB-WA	5 Alarms	4 layers	4 layers: ● R ● A ● G ● B
		5 layers	5 layers: ● R ● A ● G ● B ○ W

Wiring Instructions

- Connect both USB connector and USB power connector to PC



Mounting bracket

Standard	LB24	LW24	QZ24
Steel	Steel	ABS	ABS
SZ24	QL24	SL24	
AI	ABS	AI	

※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

Customization

- Customized color arrangements
- 70mm lens height(Standard 40mm)
- Customized pole length available
- Wall mount bracket



Ordering Specification

ST80EL-USB-WS	-	3	-	RAG	-	QL24
[Model number]		[Layers]		[Color]		[Bracket]
ST80EL-USB-BZ		1-1 Layer		● R-Red		None-Standard
ST80EL-USB-WS		2-2 Layers		● A-Amber		Bracket
ST80EL-USB-WM		3-3 Layers		● G-Green		-LB24 -LW24
ST80EL-USB-WA		4-4 Layers		● B-Blue		-QZ24 -SZ24
ST80MEL-USB-BZ		5-5 Layers		○ W-White		-QL24 -SL24
ST80MEL-USB-WS						
ST80MEL-USB-WM						
ST80MEL-USB-WA						

※ Mount brackets are available for the pole mount type(ST80EL-USB series) only.

USB LED Steady/ Flashing Tower Light & Electric Horn Combination

STDEL-USB



High signal volume controlled via USB

PRODUCT SPECIFICATION

STDEL-USB

Materials Lens-AS, Housing-ABS, Resonator-ABS

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

Volume Max. 105dB at 1m(Based on WS-Ch1)

Protection rating IP54

Compliant with RoHS directive

- Ideal solution for building smart factories with state-of-the-art technology
- LED tower light that is fully controlled by a PC application via USB port connection
- Possible to use USB cable connection without an additional power supply
- LED module standard operation: 2 layers will operate at the same time



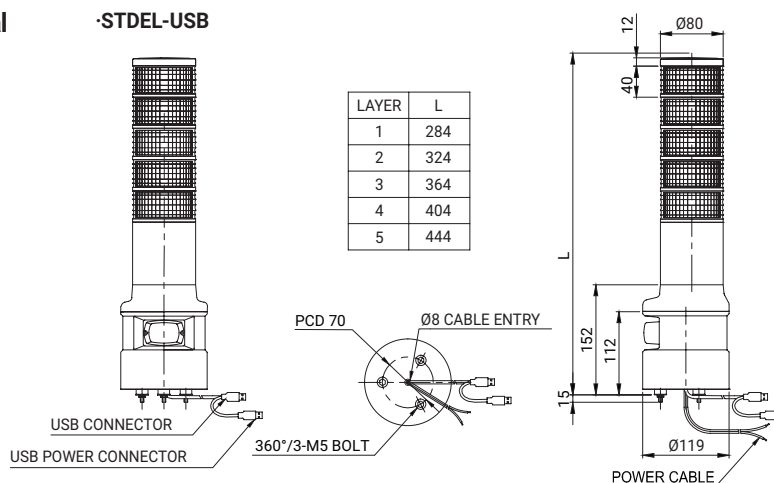
STDEL-USB

STDEL-USB Ø80mm USB Steady/ Flashing Tower Light & Electric Combination

Model number	Layers	Certificates	Color
STDEL-USB-WS	5 Warning sounds	1 layer	1 layer: R
STDEL-USB-WM	5 Melodies	2 layers	2 layers: R G
STDEL-USB-WA	5 Alarms	3 layers	3 layers: R A G
		4 layers	4 layers: R A G B
		5 layers	5 layers: R A G B W

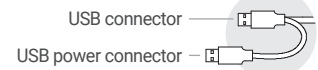
Technical Diagram

Units : mm



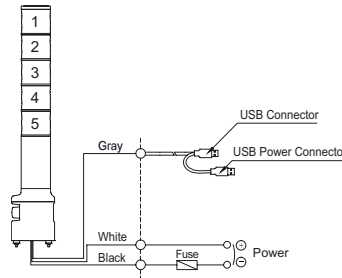
Wiring Instructions

- External power line
 - UL1015 AWG18(0.75sq) x 2C 400mm
- USB Cable : Connect both USB connector and USB power connector to PC



Wiring Instructions

STDEL-USB



Customization

- Customized color arrangements
- 70mm lens height (Standard 40mm)

Ordering Specification

STDEL-USB-WS	-	3	-	24	-	RAG
[Model number]		[Layers]		[Voltage]		[Color]
STDEL-USB-WS		1-1 Layer		12-DC12V		R-Red
STDEL-USB-WM		2-2 Layers		24-DC24V		A-Amber
STDEL-USB-WA		3-3 Layers		110-AC110V		G-Green
		4-4 Layers		220-AC220V		B-Blue
		5-5 Layers				W-White

QTG50(M)L-USB / QTG60(M)L-USB



QTG50(M)L-USB Series

PRODUCT SPECIFICATION

QTG50(M)L-USB
QTG60(M)L-USB
QTG70(M)L-USB

Materials Lens-PC, Housing-ABS

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

Volume Max. 85dB at 1m

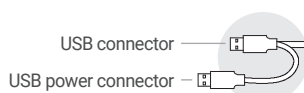
Protection rating IP54

Compliant with RoHS directive

- The LED tower light that is fully controllable by the PC application program of a PC via a USB port connection
- The USB communication cable is comprised of VCC, D-, D+, GND, and Shield
- Uses 2 DC 5V/500mA rated Personal Computer (PC) USB for its power
- Available on hosts that support USB 1.1 or higher
- Provides MS Runtime libraries for developers to utilize on various PC applications
- Built-in 5 buzzer tones
- Software controls the steady/flashing function
- USB control port and power supply port are provided with product
- The number of activated LED lights are limited to the capacity of USB port current
- Multiple connections on 1 PC is optionally available (up-to 4 units)
- LED module standard operation: 2 layers will operate at the same time
- Supported OS(32bit/64bit) : Windows XP, Win 7, Win 10
- Supported libraries : VC++, VB, Delphi(32bit only), C#(64bit only)

Wiring Instructions

- Connect both USB connector and USB power connector to PC



QTG50(M)L-USB ø50mm USB Tower Light

Model number	Layers	Certificates	Color
QTG50(M)L-USB-BZ	1 layer	CE	1 layer: ● R
QTGA50(M)L-USB-BZ	2 layers		2 layers: ● R ● G
	3 layers		3 layers: ● R ● A ● G
	4 layers		4 layers: ● R ● A ● G ● B
	5 layers		5 layers: ● R ● A ● G ● B ● W



QTG60(M)L-USB ø60mm USB Tower Light

Model number	Layers	Certificates	Color
QTG60(M)L-USB-BZ	1 layer	CE	1 layer: ● R
QTGA60(M)L-USB-BZ	2 layers		2 layers: ● R ● G
	3 layers		3 layers: ● R ● A ● G
	4 layers		4 layers: ● R ● A ● G ● B
	5 layers		5 layers: ● R ● A ● G ● B ● W

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

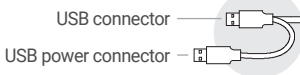
QTG70(M)L-USB



QTG70(M)L-USB Series

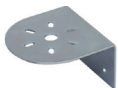
Wiring Instructions

- Connect both USB connector and USB power connector to PC



Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



Wall mount bracket TWS80



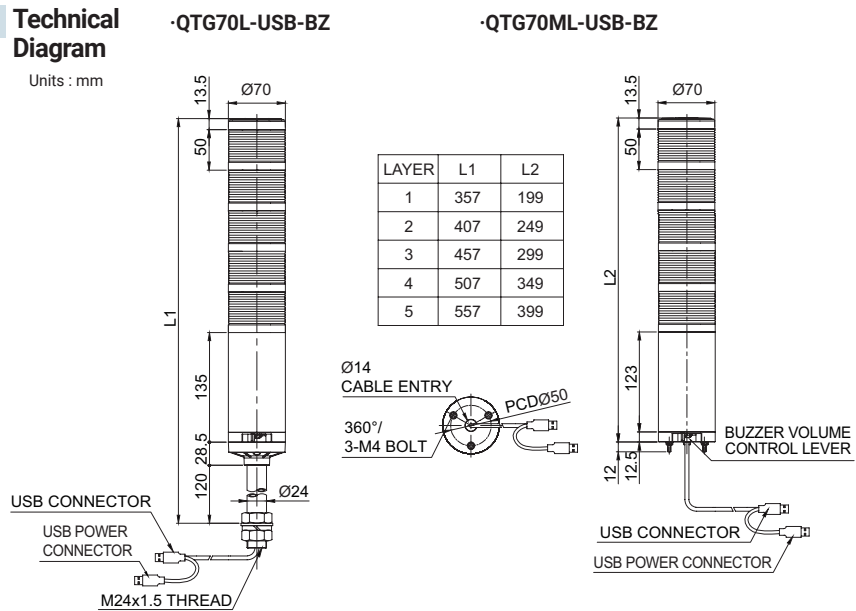
Wall mount bracket TWA80

QTG70(M)L-USB Ø70mm USB Tower Light

Model number	Layers	Certificates	Color
QTG70(M)L-USB-BZ	1 layer	CE	1 layer: ● R
QTGA70(M)L-USB-BZ	2 layers		2 layers: ● R ● G
	3 layers		3 layers: ● R ● A ● G
	4 layers		4 layers: ● R ● A ● G ● B
	5 layers		5 layers: ● R ● A ● G ● B ● W

Technical Diagram

Units : mm



Mounting bracket

Standard	LB24	LW24	QZ24	SZ24	QL24	SL24
Steel	Steel	ABS	ABS	AI	ABS	AI

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specification

QTG70L-USB-BZ	-	3	-	RAG	-	LW24
[Model number]		[Layers]		[Color]		[Bracket]
QTG70L-USB-BZ		1-1 Layer		● R-Red		None-Standard
QTG70ML-USB-BZ		2-2 Layers		● A-Amber		Bracket
QTGA70L-USB-BZ		3-3 Layers		● G-Green		-LB24 -LW24
QTGA70ML-USB-BZ		4-4 Layers		● B-Blue		-QZ24 -SZ24
		5-5 Layers		○ W-White		-QL24 -SL24

※ Mount brackets are available for the pole mount type(QTG70L-USB Series) only

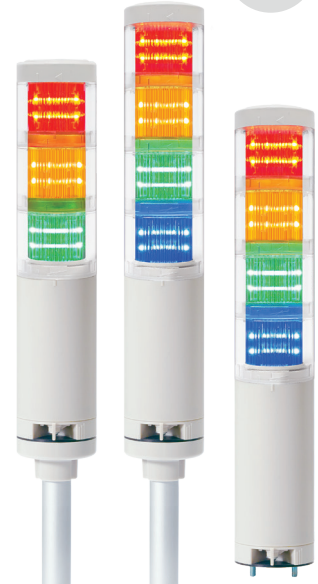
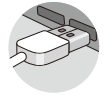


PRODUCT SPECIFICATION

QTC50(M)L-USB
QTC60(M)L-USB
QTC70(M)L-USB

Materials Lens, Inner Lens -PC, Housing-ABS
Ambient operating temperature -30°C to +50°C
Volume Max. 85dB at 1m
Protection rating IP54
Compliant with RoHS directive

- The LED tower light that is fully controllable by the PC application program of a PC via a USB port connection
- The USB communication cable is comprised of VCC, D-, D+, GND, and Shield
- Uses 2 DC 5V/500mA rated Personal Computer (PC) USB for its power
- Available on hosts that support USB 1.1 or higher
- Provides MS Runtime libraries for developers to utilize on various PC applications
- Built-in 5 buzzer tones
- Software controls the steady/flashing function
- USB control port and power supply port are provided with product
- The number of activated LED lights are limited to the capacity of USB port current
- Multiple connections on 1 PC is optionally available (up-to 4 units)
- LED module standard operation: 2 layers will operate at the same time
- Supported OS(32bit/64bit) : Windows XP, Win 7, Win 10
- Supported libraries : VC++, VB, Delphi(32bit only), C#(64bit only)



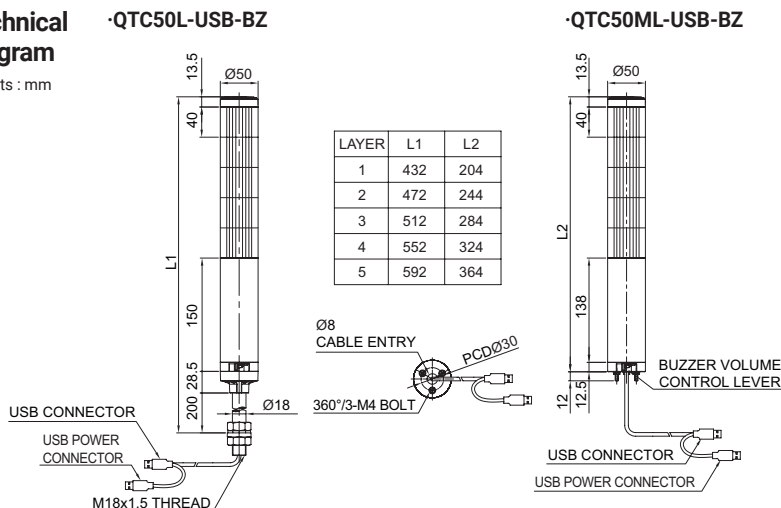
QTC50(M)L-USB Series

QTC50(M)L-USB Ø50mm USB Tower Light

Model number	Layers	Certificates	Color
QTC50(M)L-USB-BZ	5 Buzzer sounds	CE	1 layer: ● R
QTC50(M)L-USB-BZ			2 layers: ● R ● G
			3 layers: ● R ● A ● G
			4 layers: ● R ● A ● G ● B
			5 layers: ● R ● A ● G ● B ● W

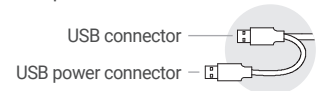
Technical Diagram

Units : mm



Wiring Instructions

- Connect both USB connector and USB power connector to PC



Mounting bracket

Standard	LB18	LW18	QZ18
Steel	Steel	ABS	ABS
SZ18	QL18	SL18	
AI	ABS	AI	

※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

Ordering Specification

QTC50L-USB-BZ	-	3	-	RAG	-	LW18
[Model number]		[Layers]		[Color]		[Bracket]
QTC50L-USB-BZ		1-1 Layer		● R-Red		None-Standard
QTC50ML-USB-BZ		2-2 Layers		● A-Amber		Bracket
QTC50L-USB-BZ		3-3 Layers		● G-Green		-LB18 -LW18
QTC50ML-USB-BZ		4-4 Layers		● B-Blue		-QZ18 -SZ18
		5-5 Layers		○ W-White		-QL18 -SL18

※ Mount brackets are available for the pole mount type(QTC50L-USB Series) only

Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



Wall mount bracket TWS45

Wall mount bracket TWA45



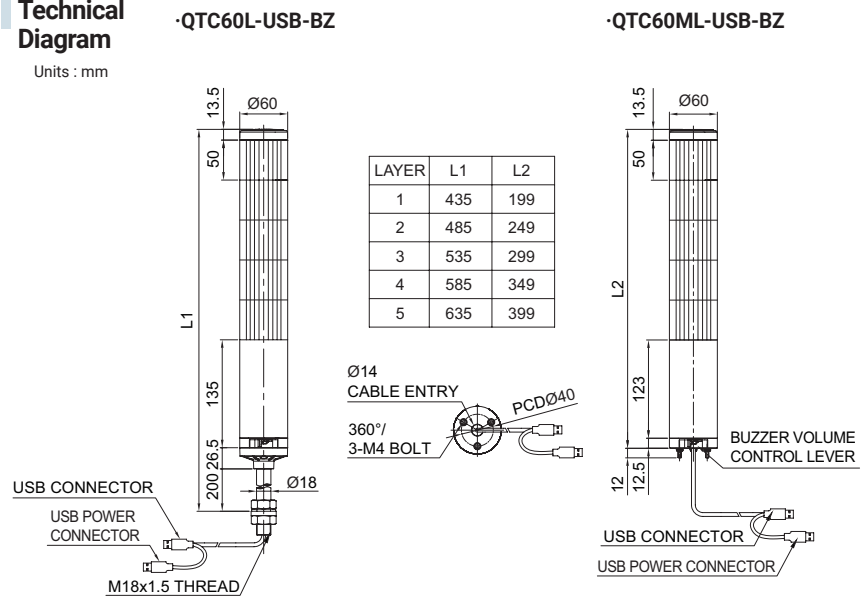
QTC60(M)L-USB Series

QTC60(M)L-USB Ø60mm USB Tower Light

Model number	Layers	Certificates	Color
QTC60(M)L-USB-BZ	1 layer	CE	1 layer: ● R
QTC60(M)L-USB-BZ	2 layers		2 layers: ● R ● G
	3 layers		3 layers: ● R ● A ● G
	4 layers		4 layers: ● R ● A ● G ● B
	5 layers		5 layers: ● R ● A ● G ● B ● W

Technical Diagram

Units : mm



Wiring Instructions

- Connect both USB connector and USB power connector to PC



Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



Wall mount bracket
TWS45



Wall mount bracket
TWA45

Ordering Specification

QTC60L-USB-BZ	-	3	-	RAG	-	LW18
[Model number]		[Layers]		[Color]		[Bracket]
QTC60L-USB-BZ		1-1 Layer		● R-Red		None-Standard
QTC60ML-USB-BZ		2-2 Layers		● A-Amber		Bracket
QTC60L-USB-BZ		3-3 Layers		● G-Green		-LB18 -LW18
QTC60ML-USB-BZ		4-4 Layers		● B-Blue		-QZ18 -SZ18
		5-5 Layers		○ W-White		-QL18 -SL18

※ Mount brackets are available for the pole mount type(QTC60L-USB Series) only

QTC70(M)L-USB



QTC70(M)L-USB Ø70mm USB Tower Light

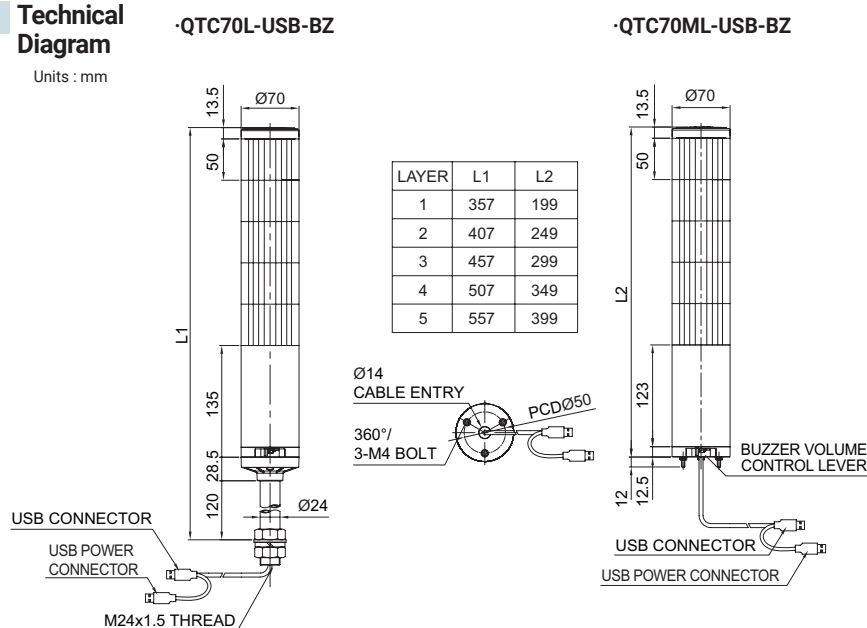
Model number	Layers	Certificates	Color
QTC70(M)L-USB-BZ	5 Buzzer sounds	CE	1 layer: R
QTC70(M)L-USB-BZ			2 layers: R G
			3 layers: R A G
			4 layers: R A G B
			5 layers: R A G B W



QTC70(M)L-USB Series

Technical Diagram

Units : mm



Mounting bracket

Standard	LB24	LW24	QZ24	SZ24	QL24	SL24
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specification

QTC70L-USB-BZ	-	3	-	RAG	-	LW24
[Model number]		[Layers]		[Color]		[Bracket]
QTC70L-USB-BZ		1-1 Layer		R-Red		None-Standard
QTC70ML-USB-BZ		2-2 Layers		A-Amber		Bracket
QTC70L-USB-BZ		3-3 Layers		G-Green		-LB24 -LW24
QTC70ML-USB-BZ		4-4 Layers		B-Blue		-QZ24 -SZ24
		5-5 Layers		W-White		-QL24 -SL24

Wiring Instructions

- Connect both USB connector and USB power connector to PC



Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



※ Mount brackets are available for the pole mount type(QTC70L-USB Series) only

QTR50(M)L-USB / QTR60(M)L-USB



QTR50(M)L-USB Series

PRODUCT SPECIFICATION

QTR50(M)L-USB
QTR60(M)L-USB
QTR70(M)L-USB

Materials Lens-PC, Housing-ABS

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

Volume Max. 85dB at 1m

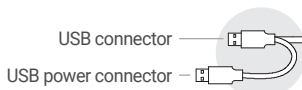
Protection rating IP54

Compliant with RoHS directive

- The LED tower light that is fully controllable by the PC application program of a PC via a USB port connection
- The USB communication cable is comprised of VCC, D-, D+, GND, and Shield
- Uses 2 DC 5V/500mA rated Personal Computer (PC) USB for its power
- Available on hosts that support USB 1.1 or higher
- Provides MS Runtime libraries for developers to utilize on various PC applications
- Built-in 5 buzzer tones
- Software controls the steady/flashing function
- USB control port and power supply port are provided with product
- The number of activated LED lights are limited to the capacity of USB port current
- When two or more USB products are used in one PC, it can be made to order specification
- Multiple connections on 1 PC is optionally available (up-to 4 units)
- LED module standard operation: 2 layers will operate at the same time
- Supported OS(32bit/64bit) : Windows XP, Win 7, Win 10
- Supported libraries : VC++, VB, Delphi(32bit only), C#(64bit only)

Wiring Instructions

- Connect both USB connector and USB power connector to PC



QTR50(M)L-USB Ø50mm USB Tower Light

Model number	Layers	Certificates	Color
QTR50(M)L-USB-BZ	1 layer	CE	1 layer: ● R
QTRA50(M)L-USB-BZ	2 layers		2 layers: ● R ● G
	3 layers		3 layers: ● R ● A ● G
	4 layers		4 layers: ● R ● A ● G ● B
	5 layers		5 layers: ● R ● A ● G ● B ● W



QTR60(M)L-USB Ø60mm USB Tower Light

Model number	Layers	Certificates	Color
QTR60(M)L-USB-BZ	1 layer	CE	1 layer: ● R
QTRA60(M)L-USB-BZ	2 layers		2 layers: ● R ● G
	3 layers		3 layers: ● R ● A ● G
	4 layers		4 layers: ● R ● A ● G ● B
	5 layers		5 layers: ● R ● A ● G ● B ● W

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

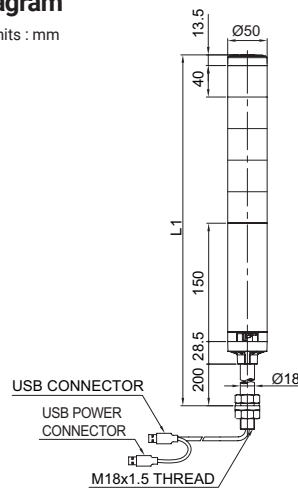
※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions



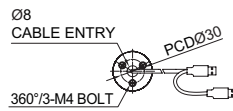
Technical Diagram

Units : mm

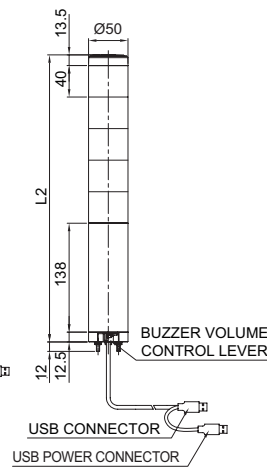
·QTR50L-USB-BZ



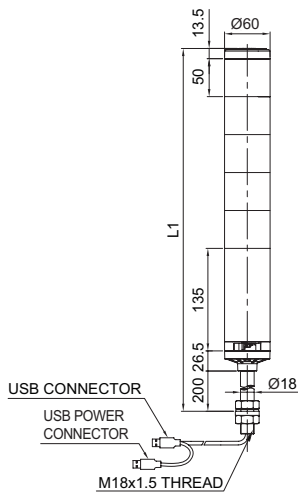
LAYER	L1	L2
1	432	204
2	472	244
3	512	284
4	552	324
5	592	364



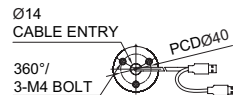
·QTR50ML-USB-BZ



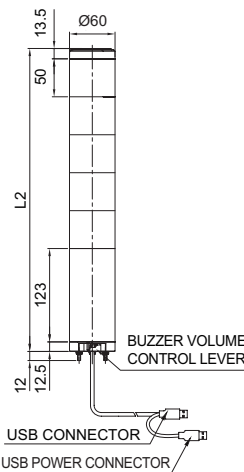
·QTR60L-USB-BZ



LAYER	L1	L2
1	435	199
2	485	249
3	535	299
4	585	349
5	635	399



·QTR60ML-USB-BZ



QTR60(M)L-USB Series

Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



Wall mount bracket
TWS45



Wall mount bracket
TWA45

Ordering Specification

QTR50L-USB-BZ	-	3	-	RAG	-	LW18
[Model number]		[Layers]		[Color]		[Bracket]
QTR50L-USB-BZ		1-1 Layer		● R-Red		None-Standard
QTR50ML-USB-BZ		2-2 Layers		● A-Amber		Bracket
QTRA50L-USB-BZ		3-3 Layers		● G-Green		-LB18 -LW18
QTRA50ML-USB-BZ		4-4 Layers		● B-Blue		-QZ18 -SZ18
		5-5 Layers		○ W-White		-QL18 -SL18

※ Mount brackets are available for the pole mount type(QTR50L-USB Series) only

QTR60L-USB-BZ	-	3	-	RAG	-	LW18
[Model number]		[Layers]		[Color]		[Bracket]
QTR60L-USB-BZ		1-1 Layer		● R-Red		None-Standard
QTR60ML-USB-BZ		2-2 Layers		● A-Amber		Bracket
QTRA60L-USB-BZ		3-3 Layers		● G-Green		-LB18 -LW18
QTRA60ML-USB-BZ		4-4 Layers		● B-Blue		-QZ18 -SZ18
		5-5 Layers		○ W-White		-QL18 -SL18

※ Mount brackets are available for the pole mount type(QTR60L-USB Series) only



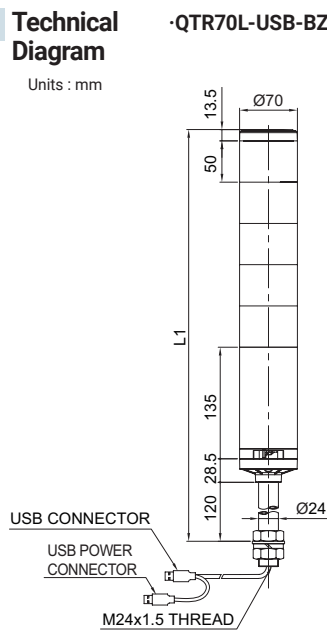
QTR70(M)L-USB Series

QTR70(M)L-USB Ø70mm USB Tower Light, Pole mount

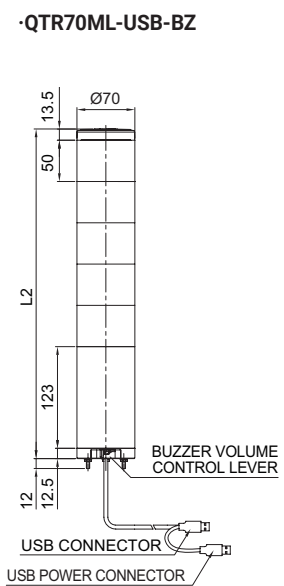
Model number	Layers	Certificates	Color
QTR70(M)L-USB-BZ	1 layer	CE	1 layer: ● R
QTRA70(M)L-USB-BZ	2 layers		2 layers: ● R ● G
	3 layers		3 layers: ● R ● A ● G
	4 layers		4 layers: ● R ● A ● G ● B
	5 layers		5 layers: ● R ● A ● G ● B ○ W

Technical Diagram

Units : mm

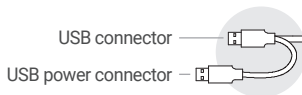


LAYER	L1	L2
1	357	199
2	407	249
3	457	299
4	507	349
5	557	399



Wiring Instructions

- Connect both USB connector and USB power connector to PC



Mounting bracket

Standard	LB24	LW24	QZ24	SZ24	QL24	SL24
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



Wall mount bracket TWS80



Wall mount bracket TWA80

Ordering Specification

QTR70L-USB-BZ	-	3	-	RAG	-	LW24
[Model number]		[Layers]		[Color]		[Bracket]
QTR70L-USB-BZ		1-1 Layer		● R-Red		None-Standard Bracket
QTR70ML-USB-BZ		2-2 Layers		● A-Amber		-LB24 -LW24
QTRA70L-USB-BZ		3-3 Layers		● G-Green		-QZ24 -SZ24
QTRA70ML-USB-BZ		4-4 Layers		● B-Blue		-QL24 -SL24
		5-5 Layers		○ W-White		

※ Mount brackets are available for the pole mount type(QTR70L-USB Series) only



Controllable LED tower light connected to the application program in the PC using a PC and ETN(Ethernet) interface

- ETN tower light is a controllable LED tower light connected to the application program in the PC using a PC and ETN(Ethernet) Interface.
- You can monitor or control the product from a remote location because it is controllable by using a web browser or application on a PC.
- Provides MS runtime libraries for developers(VC ++, VB, Delphi(32bit), c#(64bit)) to utilize on various applications of a PC, and a sample program (VC++) is available for testing purpose.
- Supported OS(32bit 64bit) : Windows XP, Windows 7, Windows 10
- Supported Program : VC++, VB, Delphi(32bit only), C#(64bit only)
- Communication speed : 10M/ half duplex method



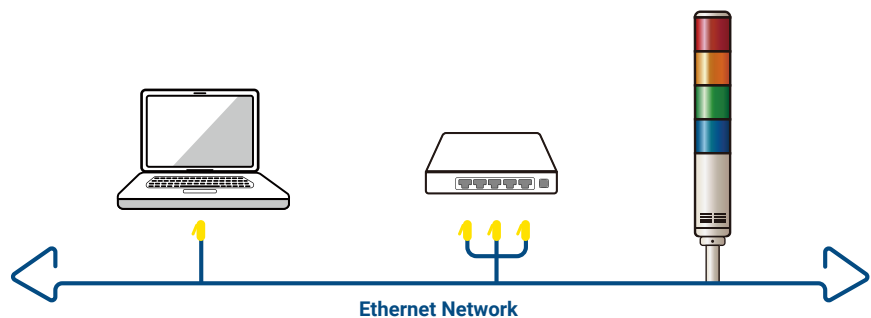
1. What is Ethernet?

Ethernet is the most popular physical layer LAN technology in use today. It defines the number of conductors that are required for a connection, the performance thresholds that can be expected, and provides the framework for data transmission. A standard Ethernet network can transmit data at a rate up to 10 Megabits per second (10 Mbps). The Institute for Electrical and Electronic Engineers developed an Ethernet standard known as IEEE Standard 802.3. This standard defines rules for configuring an Ethernet network and also specifies how the elements in an Ethernet network interact with one another. By adhering to the IEEE standard, network equipment and network protocols can communicate efficiently.

2. What is TCP/IP Protocol?

TCP/IP (Transmission Control Protocol/Internet Protocol) is the basic communication language or protocol of the Internet. It can also be used as a communications protocol in a private network (either an intranet or an extranet) TCP/IP is a two-layer program. The higher layer, Transmission Control Protocol, manages the assembling of a message or file into smaller packets that are transmitted over the Internet and received by a TCP layer that reassembles the packets into the original message. The lower layer, Internet Protocol, handles the address part of each packet so that it gets to the right destination.

Each gateway computer on the network checks this address to see where to forward the message. TCP/IP communication is primarily point-to-point, meaning each communication is from one point (or host computer) in the network to another point or host computer.



※ The figure below shows the connection of the ETN tower light.

3. IP Address format

The format of an IP address is a 32-bit numeric address written as four numbers separated by periods. Each number can be zero to 255. For example, 203.172.12.7 could be an IP address.

An IP address is divided into network address and computer address, and classified as Class A, B, C, D, and E depending on the size of the network or the number of hosts. Of these, only Class A, B, C are given to a general user. The IP address what we are about to test is classified as C Class.

192	.	168	.	0	.	128
1 st		2 nd		3 rd		4 th

No	Description	Command
1 st	1 st address, Classes are A,B,C,D,E. A CLASS : Large network B CLASS : Large network C CLASS : Small network(private IP) D CLASS : Multi cast(use in designated group) E CLASS : Stand by	A CLASS address : 1-127 B CLASS address : 128-191 C CLASS address : 192-223 D CLASS address : 224-239 E CLASS address : 240-255
2 nd	2 nd address, Being Network ID or Host ID depending on 1 st Address	
3 rd	3 rd address, Being Network ID or Host ID depending on 1 st Address	
4 th	4 th address, Being Network ID or Host ID depending on 1 st 1 st Address	

IP ADDRESS ASSIGNMENT BY CLASS

GROUP	1 st address	2 nd address	3 rd address	4 th address
A CLASS	1-127	0.0.0-255.255.255		
B CLASS	128.0-191.255		0.0-255.255	
C CLASS	192.0.0-223.255.255			0-255



4. What is MAC Address?

MAC address (Media Access Control) is a global unique identifier assigned to network devices. In other words, you can use the Mac Address IP address to find a separate device. It delivers Data Packet just like a postman delivers a letter.

So, what would be the difference between IP address and Mac address? Both IP address and MAC address are the address of its destination. IP address is simply the address while Mac address is a social security number of people living in the house IP address can be changed dynamically, but Mac address only has one unique address per device.

Mac Address

an address for computers to communicate with each other, and there is no other PC that has a same Mac Addr as yours.

IP Address

needed routing when other computers are searching for your computer address, that is an address of your computer for others to search.

An IP address is assigned to every device on a network so that device can be located on the network. The internet is a network, and every device on a TCP/IP network must have a unique IP address. IP addresses are assigned, either automatically by DHCP, or by manual configuration. That number is used by the network routing equipment so that when you ask for a page from the site, that request is routed to the right server. MAC addresses are typically used only to direct packets in the device-to-device portion of a network transaction. That means that your computer's MAC address will be in network packets only until the next device in the chain. If you have a router, then your machine's MAC address will go no further than that. Your router's MAC address will show up in packets sent further upstream, until that too is replaced by the MAC address of the next device.

5. What is PORT?

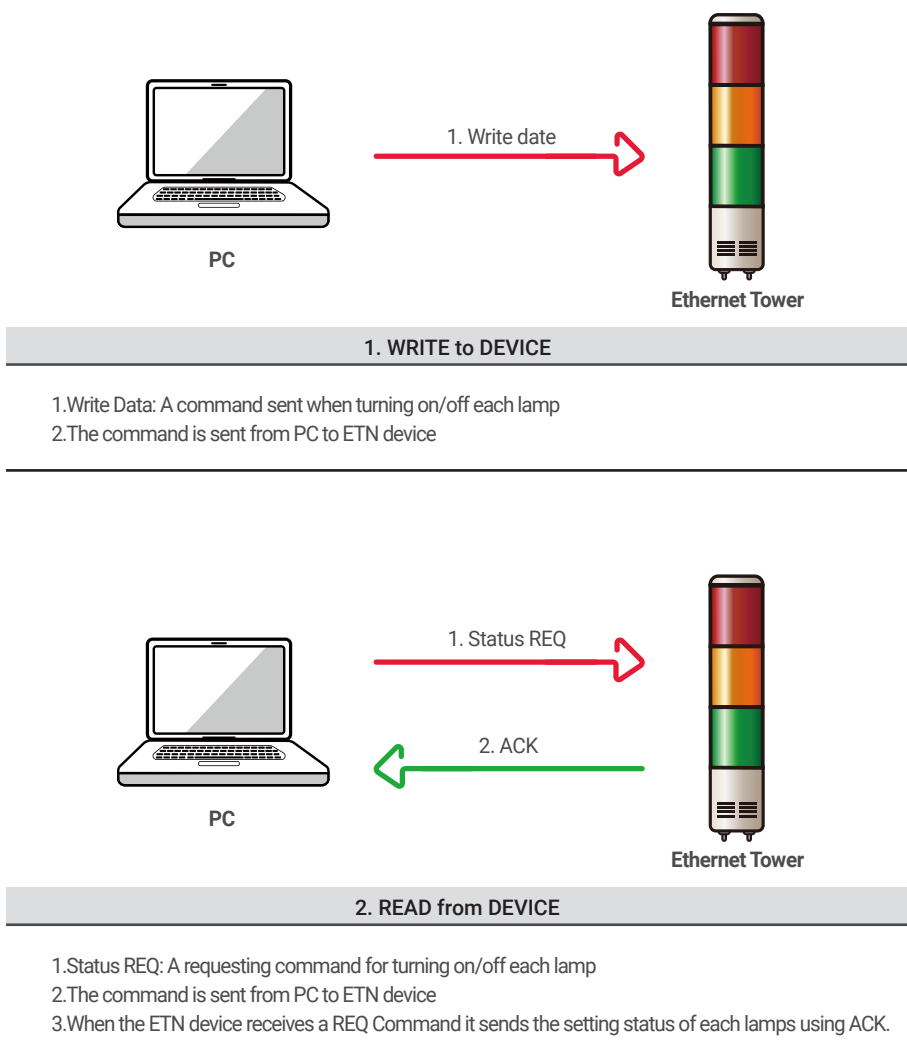
A port (noun) is a "logical connection place" and specifically, using the Internet's protocol and TCP/IP, the way a client's program specifies a particular server program on a computer in a network. Higher-level applications that use TCP/IP such as the Web protocol, Hypertext Transfer Protocol, have ports with preassigned numbers. These are known as "well-known ports" that have been assigned by the Internet Assigned Numbers Authority (IANA). Other application processes are given port numbers dynamically for each connection. When a service (server program) initially starts, it is said to be bound to its designated port number. As any client's program wants to use that server, it also must request to bind to the designated port number.

Port numbers are from 0 to 65535. Ports 0 to 1024 are reserved for use by certain privileged services. For the HTTP service, port 80 is defined as a default and it does not have to be specified in the Uniform Resource Locator.

6. What is Socket Program?

It is to implement a program to send and receive data between host PCs that are apart from each other in network programming. However, the connection between host PCs is far away so a device is that has a feature of connecting the two at a software level is required, and that device is the socket. Generally, the terms “socket programming” and “network programming” have the same meaning. We have provided a library file for users so that they can easily use the socket program.

※ The figure below show the sequence of our ETN Tower Lamp.





7. Applying the Ethernet Device

1. Proceed to check the current network and the assigned IP address of your PC.
Start(run) -> CMD – ipconfig/all

Ethernet adapter Local Area Connection:

```
Connection-specific DNS Suffix . :  
IP Address. . . . . : 192.168.10.101  
Subnet Mask . . . . . : 255.255.255.0  
Default Gateway . . . . . : 192.168.10.1
```

2. Because the ETN tower light is connected to a hub with the PC that is same as the picture on the front page, ETN tower light and the PC are now connected with the same network.
3. Download the library file, test programs and manuals from the CD provided or from our website.
4. When you unzip the file, there will be a file with the same name below. The instructions are listed inside the file.

[Download]

PDF Catalogue [↓](#)

Operating Manual [↓](#)

Test Program [↓](#)

Manual & Library [↓](#)



1.Dev. ETN Program Sample

Program Sample needed when developing (x32bit/x64bit compatibility)



2.How to use

Instructions of how to use the product and library file

5. When you unzip "ETN TEST PROGRAM.zip" file, following folders are created.



1.ETN Test Program

A program for setting IP before testing the ETN device

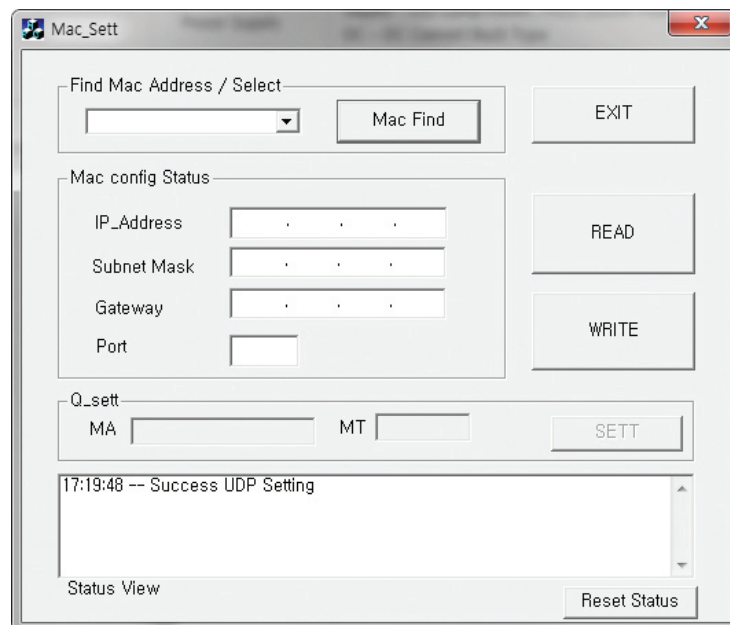


2.IP Set Program

A program for setting testing the ETN device

6. Run the "Mac_Setting.exe" program that is inside the IP Set Program Folder

- When the program is running such as the right figure, click the "Mac Find" button in the "Find Mac Address/Select" section
- MAC Address of the connected device appears when you click the device List combo box.
(If the Mac Addr does not appear, make sure that the connection status or the power supply is functional and then retry.)
- Select the Mac Addr of the device you want to change, and then click on the "eRad" button.
- Check the information and settings from the "Mac config status"
- Set the value of users network information identified in the previous chapter (subnet mask, gateway) in each text box, and set a different IP_Addr than your PC apply the settings by pressing the write buttons
- The port is set to "20,000"by default and the port number can be changed if necessary
- Reconnect after disconnecting the power from the tower light.



7. ETN Test Program Files folder includes the followings

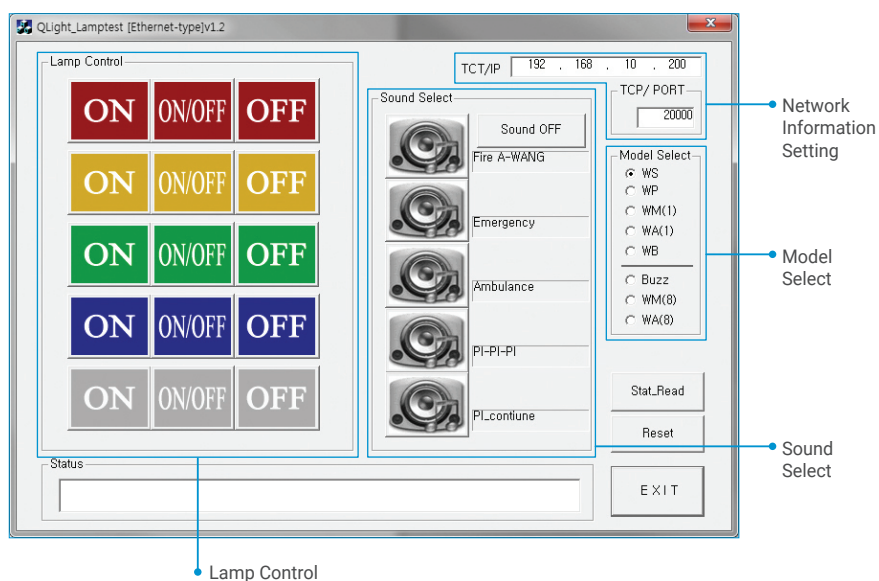
 QLight_Lamptest_TCP.exe

 QTvc_dll.dll

8. Run the "QLight_Lamptest_TCP" program

Article	Detailed specification
Network Information Setting	- Input port on TCP/PORT and IP address on TCP/IP that set on Ethernet tower lights
Lamp Control	- ON : Click the button Lamp ON - ON/OFF : Click the button Lamp Flash - OFF : Click the button Lamp OFF
Model Select	- WS : 5 warning sounds(mono) - WP : 5 special warning sounds(mono) - WM(1) : 5 Melodies(mono) - WA(1) : 5 alarms(mono) - WB : Software Buzzer 5 sounds(speaker type) - Buzzer : 5 Buzzer sounds
Sound Select	- Select 5 sounds based on model which is fixed on "Model select"

User can select appropriate sound pattern by using 'Model select' menu. There're WS, WP, WM, WA and WB sound patterns and user can choose the option when placing order.



Specification List for Ethernet LED Tower Lights



Model number	ST45ML-ETN	ST45L-ETN	ST56MEL-ETN	ST56EL-ETN	ST80MEL-ETN	ST80EL-ETN
Voltage	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V
Dimension (mm)	Outdia	Ø45	Ø45	Ø56	Ø56	Ø80
	Height	244-404	458-618	257-517	471-631	230-390
	Depth					
Material	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS	Lens-AS Housing-ABS
Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady/ Flashing	●	●	●	●	●
Sound & Volume	Buzzer sound	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m	Max.90dB at 1m
	Signal sounds	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m
Layer color change	Yes	Yes	Yes	Yes	Yes	Yes
Mount bracket	Direct mount	Pole mount	Direct mount	Pole mount	Direct mount	Pole mount
Bracket	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45	LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24
Protection rating	IP23	IP23	IP23	IP23	IP23	IP23
Usage place	Indoor Use	Indoor Use	Indoor Use	Indoor Use	Indoor Use	Indoor Use
Certificates	CE	CE	CE, KC	CE, KC	-	-
Customization	Customized color arrange- ments, Wall mount bracket	Customized color arrangements, Pole length adjustment	Customized color arrangements, 70mm lens height, Wall mount bracket	Customized color arrangements, 70mm lens height, Pole length adjustment	Customized color arrangements, 70mm lens height, Wall mount bracket	Customized color arrangements, 70mm lens height, Pole length adjustment
Page	P73	P73	P74	P74	P75	P75



Model number	QTG50(M)L-ETN	QTG60(M)L-ETN	QTG70(M)L-ETN	QTC50(M)L-ETN	QTC60(M)L-ETN	QTC70(M)L-ETN
Voltage	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V
Dimension (mm)	Outdia	Ø50	Ø60	Ø70	Ø50	Ø60
	Height	204-364(ML) 432-592(L)	199-399(ML) 435-635(L)	199-399(ML) 357-557(L)	204-364(ML) 432-592(L)	199-399(ML) 435-635(L)
	Depth					
Material	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS	Lens, Inner Lens -PC Housing-ABS
Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady/ Flashing	●	●	●	●	●
Sound & Volume	Buzzer sound	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m
Layer color change	Yes	Yes	Yes	Yes	Yes	Yes
Mount bracket	Direct mount/Pole mount	Direct mount/Pole mount	Direct mount/Pole mount	Direct mount/Pole mount	Direct mount/Pole mount	Direct mount/Pole mount
Bracket	TWS45, TWA45, LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45, LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80, LB24, LW24, QZ24, SZ24, QL24, SL24	TWS45, TWA45, LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45, LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80, LB24, LW24, QZ24, SZ24, QL24, SL24
Protection rating	IP54	IP54	IP54	IP54	IP54	IP54
Usage place	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor
Certificates	CE	CE	CE	CE	CE	CE
Customization	Customized color arrangements, Pole length adjustment, Wall mount bracket	Customized color arrangements, Pole length adjustment, Wall mount bracket	Customized color arrangements, Pole length adjustment, Wall mount bracket	Customized color arrangements, Pole length adjustment, Wall mount bracket	Customized color arrangements, Pole length adjustment, Wall mount bracket	Customized color arrangements, Pole length adjustment, Wall mount bracket
Page	P77-78	P79	P80	P81-82	P83	P84

Specification List for Ethernet LED Tower Lights



Model number		QTR50(M)L-ETN	QTR60(M)L-ETN	QTR70(M)L-ETN
Dimension (mm)	Voltage	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V
	Outdia	Ø50	Ø60	Ø70
	Height	204-364(ML) 432-592(L)	199-399(ML) 435-635(L)	199-399(ML) 357-557(L)
	Depth			
Material		Lens-PC Housing-ABS	Lens-PC Housing-ABS	Lens-PC Housing-ABS
Layers		1-5 Layers	1-5 Layers	1-5 Layers
Light source & Operation	LED Steady/ Flashing	●	●	●
Sound & Volume	Buzzer sound	Max.85dB at 1m	Max.85dB at 1m	Max.85dB at 1m
Layer color change		Yes	Yes	Yes
Mount bracket		Direct mount/Pole mount	Direct mount/Pole mount	Direct mount/Pole mount
Bracket		TWS45, TWA45, LB18, LW18, QZ18, SZ18, QL18, SL18	TWS45, TWA45, LB18, LW18, QZ18, SZ18, QL18, SL18	TWS80, TWA80, LB24, LW24, QZ24, SZ24, QL24, SL24
Protection rating		IP54	IP54	IP54
Usage place		Indoor	Indoor	Indoor
Certificates				
Customization		Customized color arrangements, Beige color, Pole length adjustment, Wall mount bracket	Customized color arrangements, Beige color, Pole length adjustment, Wall mount bracket	Customized color arrangements, Beige color, Pole length adjustment, Wall mount bracket
Page		P85-86	P87	P88-89

Ø45mm Ethernet LED Tower Lights

ST45(M)L-ETN



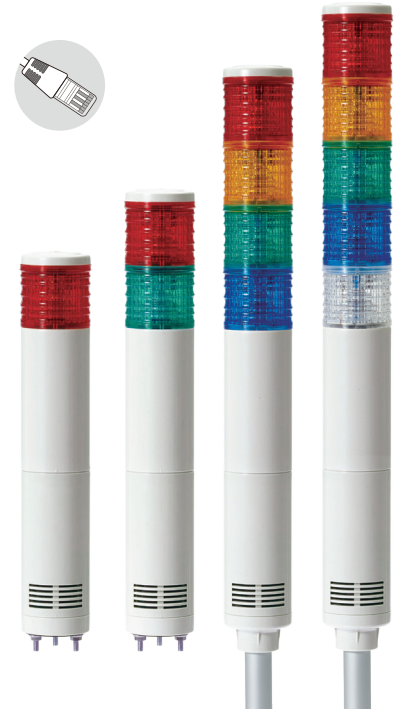
Remote control through internet or local area network

PRODUCT SPECIFICATION

ST45(M)L-ETN | ST56(M)EL-ETN
ST80(M)EL-ETN

Buzzer sounds Max.90dB at 1m
Warning sounds Max.85dB at 1m(Based on WS-Ch1)
Protection rating IP23

- Software controls the steady/flashing function
- Please refer to [Pre-recorded Sound Tone and Sound Combination Chart] for detailed information about selectable sound patterns.
- Ethernet port and power cable are provided with product
- LED module standard operation: 2 layers will operate at the same time



ST45(M)L-ETN Series

ST45(M)L-ETN Ø45mm Ethernet LED Tower Lights

Model number	Layers	Voltage	Certificates	Color
ST45L-ETN ST45ML-ETN	1	DC12V DC24V AC110V-220V	CE	R-Red
	2	DC12V DC24V AC110V-220V		R-Red G-Green
	3	DC12V DC24V AC110V-220V		R-Red A-Amber G-Green
	4	DC12V DC24V AC110V-220V		R-Red A-Amber G-Green B-Blue
	5	DC12V DC24V AC110V-220V		R-Red A-Amber G-Green B-Blue W-White

Light source/signal sound current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	230mA	160mA	Max.60mA
Signal sound current	350mA	230mA	Max.85mA

Customization

- Customized color arrangements
- Customized pole length available
- Wall mount bracket



Wall mount bracket TWS45



Wall mount bracket TWA45

Ordering Specification

ST45L-ETN-WS	3	24	RAG	LW18
[Model number]	[Layers]	[Voltage]	[Color]	[Bracket]
ST45L-ETN-BZ	1-1 Layer	12-DC12V	R-Red	None-Standard Bracket -LB18 -LW18 -QZ18 -SZ18
ST45L-ETN-WS	2-2 Layers	24-DC24V	A-Amber	
ST45L-ETN-WM	3-3 Layers	110/220-AC110V-220V	G-Green	
ST45L-ETN-WA	4-4 Layers		B-Blue	
ST45ML-ETN-BZ	5-5 Layers		W-White	
ST45ML-ETN-WS				
ST45ML-ETN-WM				
ST45ML-ETN-WA				

Mounting bracket

Standard	LB18	LW18	QZ18
Steel	Steel	ABS	ABS
SZ18	QL18	SL18	
Al	ABS	Al	

※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

Wiring Instructions

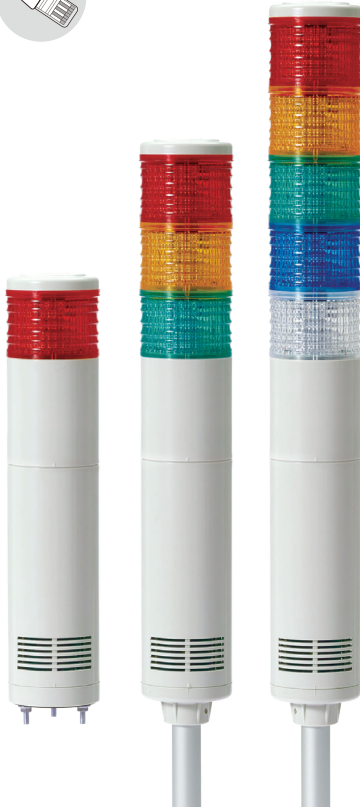
- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line :
UL1015 AWG18(0.75sq)×2C 400mm
- Power plug will be provided in case of AC type
- UTP cable : Category 5 cable
- DC type : Black output line is negative(-).

Mount brackets are available for the pole mount type(ST45L-ETN series) only.

Ø56mm Ethernet LED Tower Lights

ST56(M)EL-ETN

Remote control through internet or local area network



ST56(M)EL-ETN Series

ST56(M)EL-ETN Ø56mm Ethernet LED Tower Lights

Model number	Layers	Voltage	Certificates	Color
ST56EL-ETN ST56MEL-ETN	1	DC12V DC24V AC110V-220V	CE KC	● R-Red
	2	DC12V DC24V AC110V-220V		● R-Red ● G-Green
	3	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

※ KC Certification: AC220V(ST56EL-ETNS)

Light source/signal sound current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	240mA	165mA	Max.65mA
Signal sound current	350mA	230mA	Max.85mA

Wiring Instructions

- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- Power plug will be provided in case of AC type
- UTP cable: Category 5 cable
- DC type : Black output line is negative(-).

Customization

- Customized color arrangement available
- 70mm lens height(Standard 40mm)
- Customized pole length available
- Wall mount bracket
- KC Certification is available (Model number: ST56EL-ETNS, AC220V)



Mounting bracket

Standard	LB18	LW18	QZ18
Steel	Steel	ABS	ABS
SZ18	QL18	SL18	
AI	ABS	AI	

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Ordering Specification

ST56EL-ETN-WS	-	3	-	220	-	RAG	-	QZ18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
ST56EL-ETN-BZ		1-1 Layer		12-DC12V		● R-Red		None-Standard
ST56EL-ETN-WS		2-2 Layers		24-DC24V		● A-Amber		Bracket
ST56EL-ETN-WM		3-3 Layers		110/220-AC110V-220V		● G-Green		-LB18 -LW18
ST56EL-ETN-WA		4-4 Layers				● B-Blue		-QZ18 -SZ18
ST56MEL-ETN-BZ		5-5 Layers				○ W-White		-QL18 -SL18
ST56MEL-ETN-WS								
ST56MEL-ETN-WM								
ST56MEL-ETN-WA								

Mount brackets are available for the pole mount type(ST56EL-ETN series) only.

Ø80mm Ethernet LED Tower Lights

ST80(M)EL-ETN



Remote control through internet or local area network

ST80(M)EL-ETN Ø80mm Ethernet LED Tower Lights

Model number	Layers	Voltage	Certificates	Color
ST80EL-ETN ST80MEL-ETN	1	DC12V DC24V AC110V-220V	-	● R-Red
	2	DC12V DC24V AC110V-220V		● R-Red ● G-Green
	3	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White



ST80(M)EL-ETN Series

Light source/signal sound current(based on 1 layer)

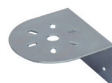
Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	260mA	180mA	Max.70mA
Signal sound current	350mA	230mA	Max.85mA

Wiring Instructions

- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- Power plug will be provided in case of AC type
- UTP cable: Category 5 cable
- DC type : Black output line is negative(-).

Customization

- Customized color arrangements available
- 70mm lens height(Standard 40mm)
(Model number: ST80(M)L-ETN)
- Customized pole length available
- Wall mount bracket



Wall mount bracket
TWS80



Wall mount bracket
TWA80

Ordering Specification

ST80EL-ETN-WS	3	24	RAG	QZ24
[Model number]	[Layers]	[Voltage]	[Color]	[Bracket]
ST80EL-ETN-BZ	1-1 Layer	12-DC12V	● R-Red	None-Standard Bracket -LB24 -LW24 -QZ24 -SZ24 -QL24 -SL24
ST80EL-ETN-WS	2-2 Layers	24-DC24V	● A-Amber	
ST80EL-ETN-WM	3-3 Layers	110/220-AC110V-220V	● G-Green	
ST80EL-ETN-WA	4-4 Layers		● B-Blue	
ST80MEL-ETN-BZ	5-5 Layers		○ W-White	
ST80MEL-ETN-WS				
ST80MEL-ETN-WM				
ST80MEL-ETN-WA				

Mounting bracket

Standard	LB24	LW24	QZ24
Steel	Steel	ABS	ABS
SZ24	QL24	SL24	
AI	ABS	AI	

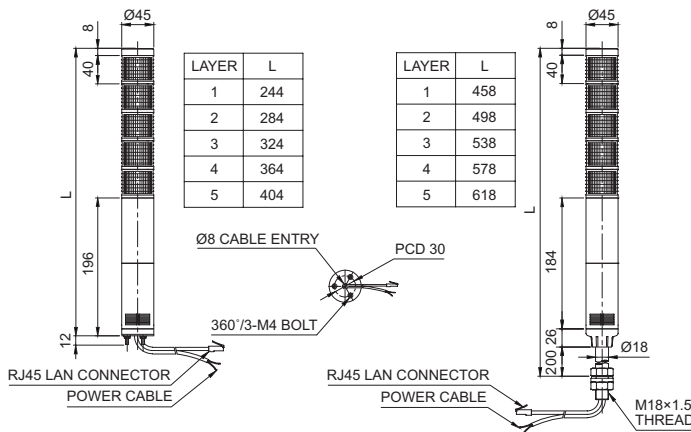
※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

Mount brackets are available for the pole mount type(ST80EL-ETN series) only.

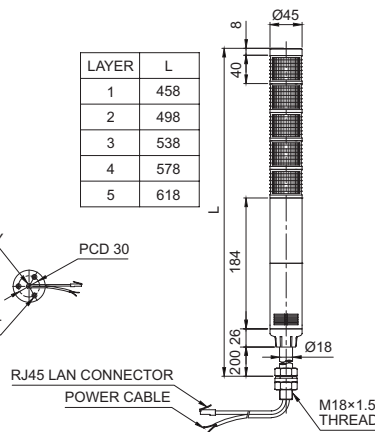
Technical Diagram

Units : mm

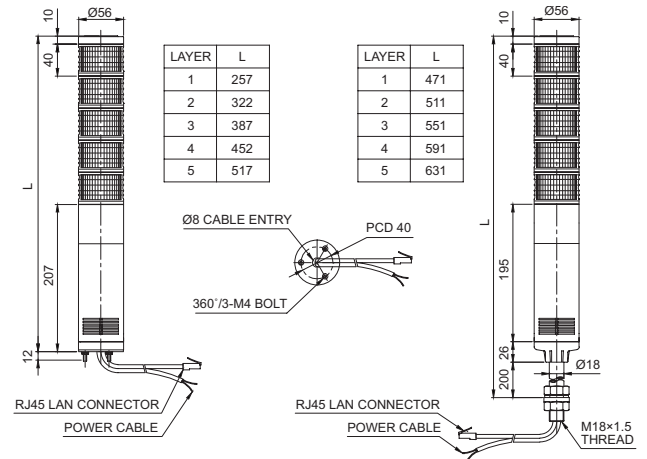
·ST45ML-ETN



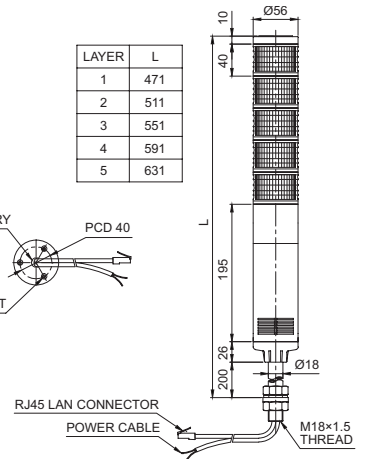
·ST45L-ETN



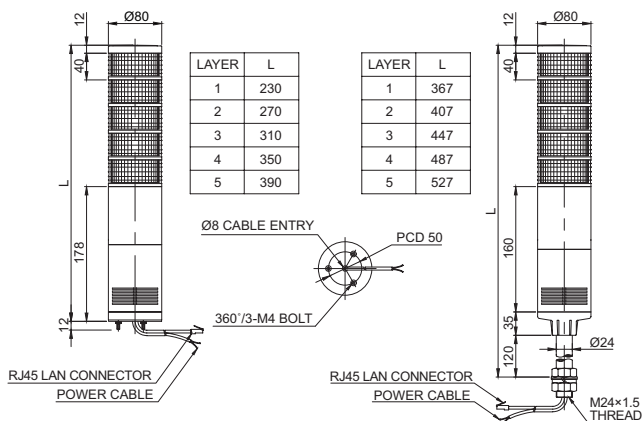
·ST56MEL-ETN



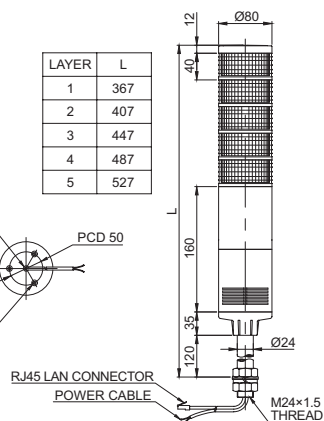
·ST56EL-ETN



·ST80MEL-ETN



·ST80EL-ETN



QTG50(M)L-ETN



Remote control through internet or local area network

PRODUCT SPECIFICATION

QTG50(M)L-ETN | QTG60(M)L-ETN
QTG70(M)L-ETN

Volume Max. 85dB at 1m
Communication speed 10M/Half Duplex method
Protection rating IP54
Compliant with RoHS directive

- LED tower light capable of remote-control using LAN communication
- ETN tower light is a controllable LED tower light connected to the application program in the PC supported with HTTP(Web Brower) and TCP/IP protocol
- You can monitor or control the product from a remote location because it is controllable by using a web browser or application on a PC
- Provides MS runtime libraries for developers(VC++, VB, Delphi) to utilize on various applications of a PC, and a sample program (VC++) is available for testing purpose
- LED signal tower light controlled by PC application program though the network
- Ethernet cable and power cable are provided with the product
- LED module standard operation: 2 layers will operate at the same time
- Supported OS(32bit/64bit) : Windows XP, Win 7, Win 10
- Supported Program : VC++, VB, Delphi(32bit only), C#(64bit only)

QTG50(M)L-ETN Ø50mm Ethernet LED Tower Lights

Model number	Layers	Voltage	Certificates	Color
QTG50(M)L-ETN-BZ QTGA50(M)L-ETN-BZ (BZ: 5 buzzer sounds)	1	DC12V DC24V AC110V-220V	CE	● R-Red
	2	DC12V DC24V AC110V-220V		● R-Red ● G-Green
	3	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	265mA	285mA	Max.70mA
Buzzer current	215mA	245mA	Max.55mA

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions



QTG50(M)L-ETN Series

Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



Wall mount bracket
TWS45



Wall mount bracket
TWA45

QTG50(M)L-ETN

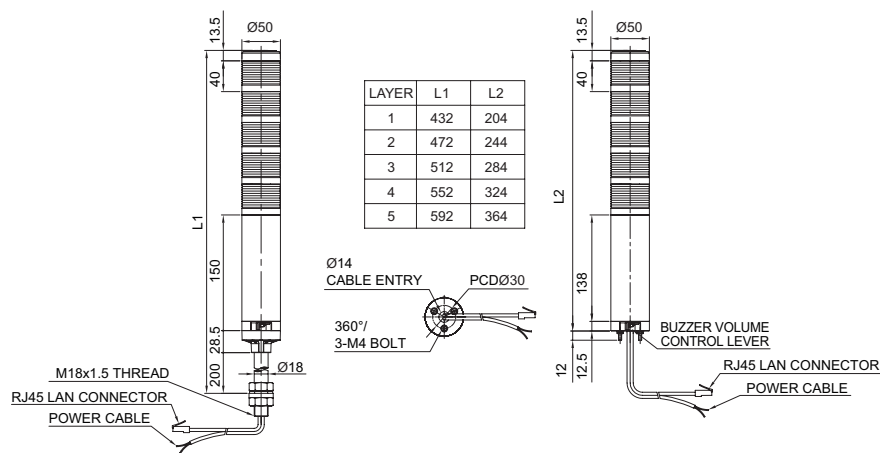


Technical Diagram

Units : mm

·QTG50L-ETN-BZ

·QTG50ML-ETN-BZ



Wiring Instructions

- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- Power plug will be provided in case of AC type
- UTP cable: Category 5 cable

Ordering Specification

QTG50L-ETN-BZ	-	3	-	24	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTG50L-ETN-BZ		1-1 Layer		12-DC12V		● R-Red		None-Standard Bracket
QTG50ML-ETN-BZ		2-2 Layers		24-DC24V		● A-Amber		-LB18 -LW18
QTGA50L-ETN-BZ		3-3 Layers		110/220-AC110V-220V		● G-Green		-QZ18 -SZ18
QTGA50ML-ETN-BZ		4-4 Layers				● B-Blue		-QL18 -SL18
		5-5 Layers				○ W-White		

Ø60mm Ethernet LED Tower Lights

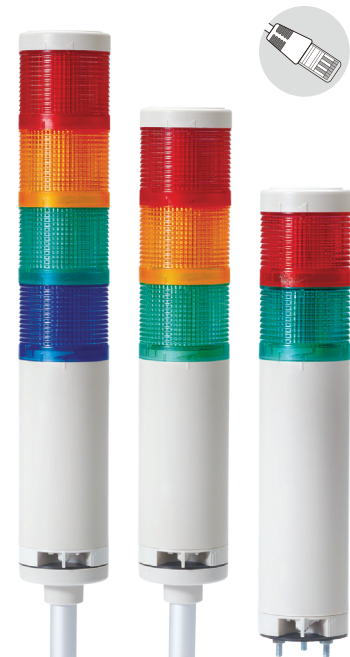
QTG60(M)L-ETN



Remote control through internet or local area network

QTG60(M)L-ETN Ø60mm Ethernet LED Tower Lights

Model number	Layers	Voltage	Certificates	Color
QTG60(M)L-ETN-BZ QTGA60(M)L-ETN-BZ (BZ: 5 buzzer sounds)	1	DC12V DC24V AC110V-220V	CE	● R-Red
	2	DC12V DC24V AC110V-220V		● R-Red ● G-Green
	3	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White



QTG60(M)L-ETN Series

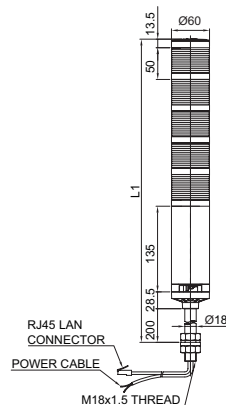
Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	285mA	300mA	Max.75mA
Buzzer current	215mA	245mA	Max.55mA

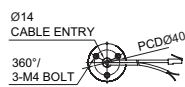
Technical Diagram

Units : mm

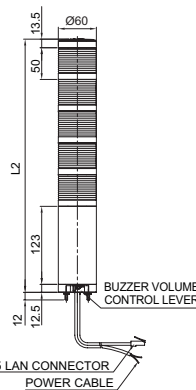
·QTG60L-ETN-BZ



LAYER	L1	L2
1	435	199
2	485	249
3	535	299
4	585	349
5	635	399



·QTG60ML-ETN-BZ



Wiring Instructions

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



Wall mount bracket TWS45



Wall mount bracket TWA45

Ordering Specification

QTG60L-ETN-BZ	3	24	RAG	LW18
[Model number]	[Layers]	[Voltage]	[Color]	[Bracket]
QTG60L-ETN-BZ	1-1 Layer	12-DC12V	● R-Red	None-Standard
QTG60ML-ETN-BZ	2-2 Layers	24-DC24V	● A-Amber	Bracket
QTGA60L-ETN-BZ	3-3 Layers	110/220-AC110V-220V	● G-Green	-LB18 -LW18
QTGA60ML-ETN-BZ	4-4 Layers		● B-Blue	-QZ18 -SZ18
	5-5 Layers		○ W-White	-QL18 -SL18

Wiring Instructions

- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line
 - UL1015 AWG18(0.75sq) x 2C 400mm
- Power plug will be provided in case of AC type
- UTP cable: Category 5 cable

Mounting bracket

Standard	LB18	LW18	QZ18
Steel	Steel	ABS	ABS
SZ18	QL18	SL18	
AI	ABS	AI	

※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

Ø70mm Ethernet LED Tower Lights

QTG70(M)L-ETN

Remote control through internet or local area network



QTG70(M)L-ETN Series

Customization

- Customized color arrangements
- Customized pole length available
- Wall mount bracket



Wall mount bracket
TWS80



Wall mount bracket
TWA80

Mounting bracket

Standard	LB24	LW24	QZ24
Steel	Steel	ABS	ABS
SZ24	QL24	SL24	



※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

QTG70(M)L-ETN Ø70mm Ethernet LED Tower Lights

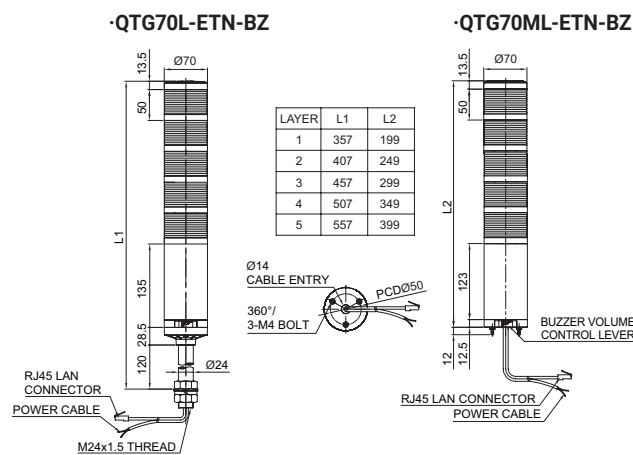
Model number	Layers	Voltage	Certificates	Color
QTG70(M)L-ETN-BZ QTGA70(M)L-ETN-BZ (BZ: 5 buzzer sounds)	1	DC12V DC24V AC110V-220V	CE	● R-Red
	2	DC12V DC24V AC110V-220V		● R-Red ● G-Green
	3	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	285mA	300mA	Max.75mA
Buzzer current	215mA	245mA	Max.55mA

Technical Diagram

Units : mm



Wiring Instructions

- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- Power plug will be provided in case of AC type
- UTP cable: Category 5 cable

Ordering Specification

QTG70L-ETN-BZ	-	3	-	24	-	RAG	-	LW24
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTG70L-ETN-BZ		1-1 Layer		12-DC12V		● R-Red		None-Standard Bracket
QTG70ML-ETN-BZ		2-2 Layers		24-DC24V		● A-Amber		-LB24 -LW24
QTGA70L-ETN-BZ		3-3 Layers		110/220-AC110V-220V		● G-Green		-QZ24 -SZ24
QTGA70ML-ETN-BZ		4-4 Layers				● B-Blue		-QL24 -SL24
		5-5 Layers				○ W-White		

QTC50(M)L-ETN



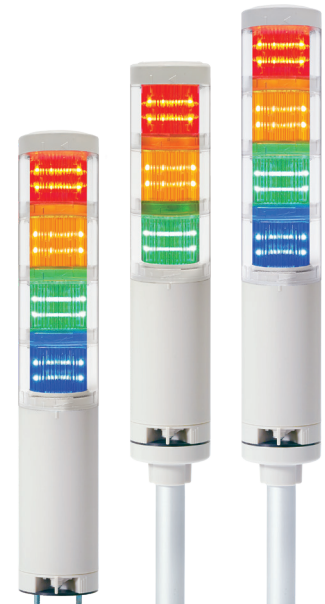
Remote control through internet or local area network

PRODUCT SPECIFICATION

QTC50(M)L-ETN | QTC60(M)L-ETN
QTC70(M)L-ETN

Volume Max. 85dB at 1m
Communication speed 10M/Half Duplex method
Protection rating IP54
Compliant with RoHS directive

- LED tower light capable of remote-control using LAN communication
- ETN tower light is a controllable LED tower light connected to the application program in the PC supported with HTTP(Web Browser) and TCP/IP protocol
- You can monitor or control the product from a remote location because it is controllable by using a web browser or application on a PC
- Provides MS runtime libraries for developers(VC ++, VB, Delphi) to utilize on various applications of a PC, and a sample program (VC++) is available for testing purpose
- LED signal tower light controlled by PC application program though the network
- Ethernet cable and power cable are provided with the product
- LED module standard operation: 2 layers will operate at the same time
- Supported OS(32bit/64bit) : Windows XP, Win 7, Win 10
- Supported Program : VC++, VB, Delphi(32bit only), C#(64bit only)



QTC50(M)L-ETN Series

QTC50(M)L-ETN Ø50mm Ethernet LED Tower Lights

Model number	Layers	Voltage	Certificates	Color
	1	DC12V DC24V AC110V-220V		● R-Red
	2	DC12V DC24V AC110V-220V		● R-Red ● G-Green
QTC50(M)L-ETN-BZ QTC60(M)L-ETN-BZ (BZ: 5 buzzer sounds)	3	DC12V DC24V AC110V-220V	CE	● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	265mA	285mA	Max.70mA
Buzzer current	215mA	245mA	Max.55mA

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18
Steel	Steel	ABS	ABS	Al	ABS

※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



Wall mount bracket
TWS45



Wall mount bracket
TWA45

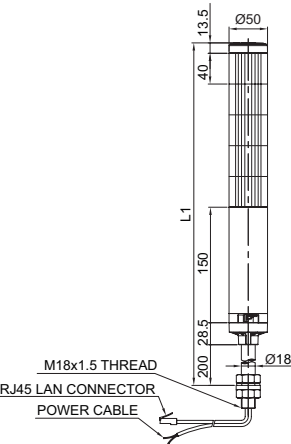
QTC50(M)L-ETN



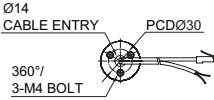
Technical Diagram

Units : mm

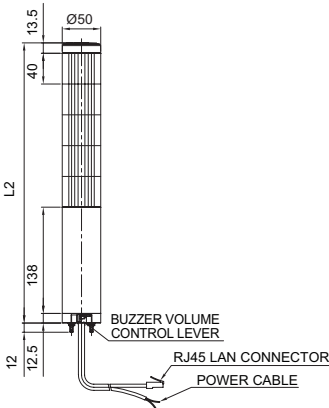
·QTC50L-ETN-BZ



LAYER	L1	L2
1	432	204
2	472	244
3	512	284
4	552	324
5	592	364



·QTC50ML-ETN-BZ



Wiring Instructions

- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- Power plug will be provided in case of AC type
- UTP cable: Category 5 cable

Ordering Specification

QTC50L-ETN-BZ	-	3	-	24	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTC50L-ETN-BZ		1-1 Layer		12-DC12V		● R-Red		None-Standard
QTC50ML-ETN-BZ		2-2 Layers		24-DC24V		● A-Amber		Bracket
QTC50L-ETN-BZ		3-3 Layers		110/220-AC110V-220V		● G-Green		-LB18 -LW18
QTC50ML-ETN-BZ		4-4 Layers				● B-Blue		-QZ18 -SZ18
		5-5 Layers				○ W-White		-QL18 -SL18

Ø60mm Ethernet LED Tower Lights

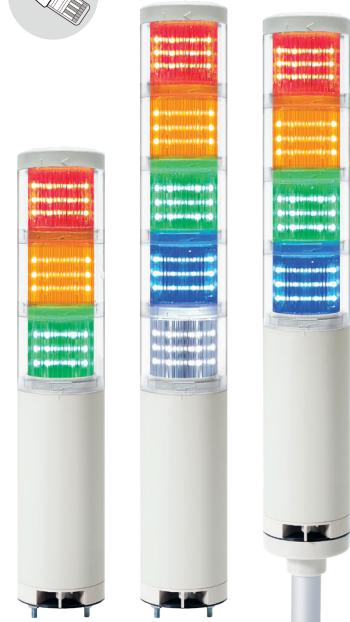
QTC60(M)L-ETN



Remote control through internet or local area network

QTC60(M)L-ETN Ø60mm Ethernet LED Tower Lights

Model number	Layers	Voltage	Certificates	Color
QTC60(M)L-ETN-BZ QTC60(M)L-ETN-BZ (BZ: 5 buzzer sounds)	1	DC12V DC24V AC110V-220V	CE	● R-Red
	2	DC12V DC24V AC110V-220V		● R-Red ● G-Green
	3	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White



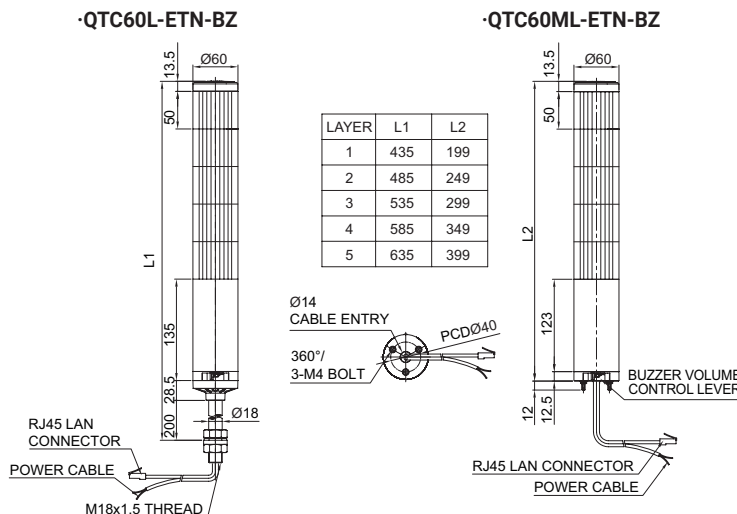
QTC60(M)L-ETN Series

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	285mA	300mA	Max.75mA
Buzzer current	215mA	245mA	Max.55mA

Technical Diagram

Units : mm



Wiring Instructions

- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- Power plug will be provided in case of AC type
- UTP cable: Category 5 cable

Ordering Specification

QTC60L-ETN-BZ	-	3	-	24	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTC60L-ETN-BZ		1-1 Layer		12-DC12V		● R-Red		None-Standard
QTC60ML-ETN-BZ		2-2 Layers		24-DC24V		● A-Amber		Bracket
QTC60L-ETN-BZ		3-3 Layers		110/220-AC110V-220V		● G-Green		-LB18 -LW18
QTC60ML-ETN-BZ		4-4 Layers				● B-Blue		-QZ18 -SZ18
		5-5 Layers				○ W-White		-QL18 -SL18

Mounting bracket

Standard	LB18	LW18	QZ18
Steel	Steel	ABS	ABS
SZ18	QL18	SL18	
AI	ABS	AI	

※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



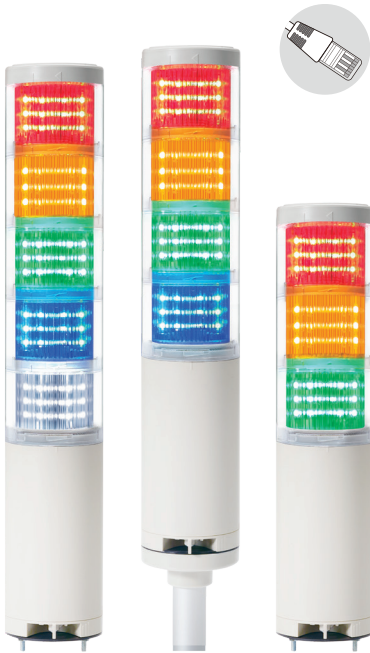
Wall mount bracket TWS45

Wall mount bracket TWA45

Ø70mm Ethernet LED Tower Lights

QTC70(M)L-ETN

Remote control through internet or local area network



QTC70(M)L-ETN Series

Mounting bracket

Standard LB24 LW24 QZ24



Steel Steel ABS ABS

SZ24 QL24 SL24

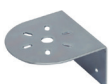


AI ABS AI

※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

Customization

- Customized color arrangements
- Customized pole length available
- Wall mount bracket



Wall mount bracket
TWS80



Wall mount bracket
TWA80

QTC70(M)L-ETN Ø70mm Ethernet LED Tower Lights

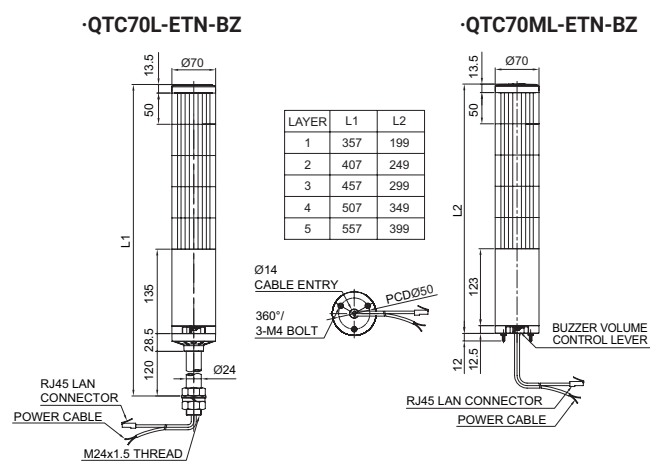
Model number	Layers	Voltage	Certificates	Color
QTC70(M)L-ETN-BZ QTC70(M)L-ETN-BZ (BZ: 5 buzzer sounds)	1	DC12V DC24V AC110V-220V	CE	● R-Red
	2	DC12V DC24V AC110V-220V		● R-Red ● G-Green
	3	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	285mA	300mA	Max.75mA
Buzzer current	215mA	245mA	Max.55mA

Technical Diagram

Units : mm



Wiring Instructions

- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- Power plug will be provided in case of AC type
- UTP cable: Category 5 cable

Ordering Specification

QTC70L-ETN-BZ	-	3	-	24	-	RAG	-	LW24
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTC70L-ETN-BZ		1-1 Layer		12-DC12V		● R-Red		None-Standard
QTC70ML-ETN-BZ		2-2 Layers		24-DC24V		● A-Amber		Bracket
QTC70L-ETN-BZ		3-3 Layers		110/220-AC110V-220V		● G-Green		-LB24 -LW24
QTC70ML-ETN-BZ		4-4 Layers				● B-Blue		-QZ24 -SZ24
		5-5 Layers				○ W-White		-QL24 -SL24

Ø50mm Ethernet LED Tower Lights

QTR50(M)L-ETN



Remote control through internet or local area network

PRODUCT SPECIFICATION

QTR50(M)L-ETN | QTR60(M)L-ETN
QTR70(M)L-ETN

Volume Max. 85dB at 1m
Communication speed 10M/Half Duplex method
Protection rating IP54
Compliant with RoHS directive

- LED tower light capable of remote-control using LAN communication
- ETN tower light is a controllable LED tower light connected to the application program in the PC supported with HTTP(Web Brower) and TCP/IP protocol
- You can monitor or control the product from a remote location because it is controllable by using a web browser or application on a PC
- Provides MS runtime libraries for developers(VC ++, VB, Delphi) to utilize on various applications of a PC, and a sample program (VC++) is available for testing purpose
- LED signal tower light controlled by PC application program though the network
- Ethernet cable and power cable are provided with the product
- LED module standard operation: 2 layers will operate at the same time
- Supported OS(32bit/64bit) : Windows XP, Win 7, Win 10
- Supported Program : VC++, VB, Delphi(32bit only), C#(64bit only)



QTR50(M)L-ETN Series

QTR50(M)L-ETN Ø50mm Ethernet LED Tower Lights

Model number	Layers	Voltage	Certificates	Color
QTR50(M)L-ETN-BZ QTRA50(M)L-ETN-BZ (BZ: 5 buzzer sounds)	1	DC12V DC24V AC110V-220V	-	● R-Red
	2	DC12V DC24V AC110V-220V		● R-Red ● G-Green
	3	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	265mA	285mA	Max.70mA
Buzzer current	215mA	245mA	Max.55mA

Mounting bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18
Steel	Steel	ABS	ABS	Al	ABS	Al

Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

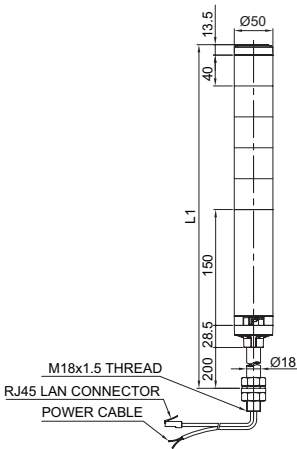
QTR50(M)L-ETN



Technical Diagram

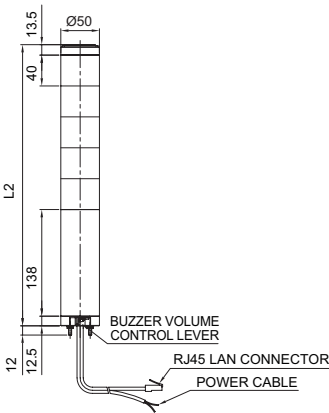
Units : mm

·QTR50L-ETN-BZ



LAYER	L1	L2
1	432	204
2	472	244
3	512	284
4	552	324
5	592	364

·QTR50ML-ETN-BZ



Wiring Instructions

- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- Power plug will be provided in case of AC type
- UTP cable: Category 5 cable

Ordering Specification

QTR50L-ETN-BZ	-	3	-	24	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTR50L-ETN-BZ		1-1 Layer		12-DC12V		● R-Red		None-Standard
QTR50ML-ETN-BZ		2-2 Layers		24-DC24V		● A-Amber		Bracket
QTRA50L-ETN-BZ		3-3 Layers		110/220-AC110V-220V		● G-Green		-LB18 -LW18
QTRA50ML-ETN-BZ		4-4 Layers				● B-Blue		-QZ18 -SZ18
		5-5 Layers				○ W-White		-QL18 -SL18

Ø60mm Ethernet LED Tower Lights

QTR60(M)L-ETN



Remote control through internet or local area network

QTR60(M)L-ETN Ø60mm Ethernet LED Tower Lights

Model number	Layers	Voltage	Certificates	Color
QTR60(M)L-ETN-BZ QTRA60(M)L-ETN-BZ (BZ: 5 buzzer sounds)	1	DC12V DC24V AC110V-220V	-	● R-Red
	2	DC12V DC24V AC110V-220V		● R-Red ● G-Green
	3	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White



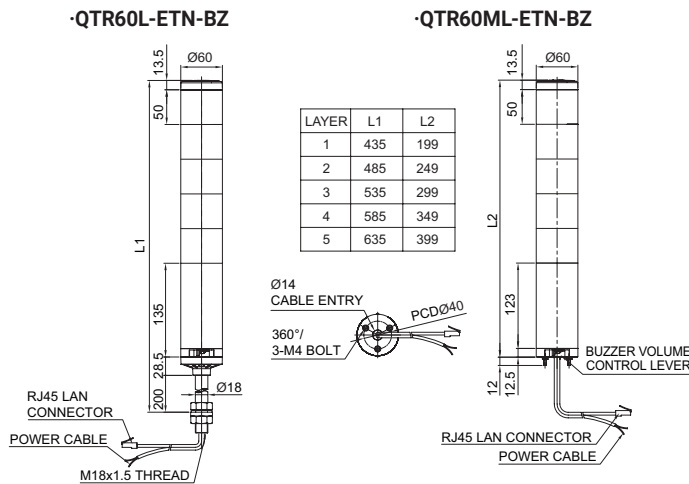
QTR60(M)L-ETN Series

Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	285mA	300mA	Max.75mA
Buzzer current	215mA	245mA	Max.55mA

Technical Diagram

Units : mm



Wiring Instructions

- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line - UL1015 AWG18(0.75sq) x 2C 400mm
- Power plug will be provided in case of AC type
- UTP cable: Category 5 cable

Ordering Specification

QTR60L-ETN-BZ	-	3	-	24	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTR60L-ETN-BZ		1-1 Layer		12-DC12V		● R-Red		None-Standard Bracket
QTR60ML-ETN-BZ		2-2 Layers		24-DC24V		● A-Amber		-LB18 -LW18
QTRA60L-ETN-BZ		3-3 Layers		110/220-AC110V-220V		● G-Green		-QZ18 -SZ18
QTRA60ML-ETN-BZ		4-4 Layers				● B-Blue		-QL18 -SL18
		5-5 Layers				○ W-White		

Mounting bracket

Standard	LB18	LW18	QZ18
Steel	Steel	ABS	ABS
SZ18	QL18	SL18	
AI	ABS	AI	

※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

Customization

- Customized color arrangement available
- Customized pole length available
- Wall mount bracket



Wall mount bracket TWS45



Wall mount bracket TWA45

QTR70(M)L-ETN

Remote control through internet or local area network



QTR70(M)L-ETN Series

QTR70(M)L-ETN Ø70mm Ethernet LED Tower Lights

Model number	Layers	Voltage	Certificates	Color
QTR70(M)L-ETN-BZ QTRA70(M)L-ETN-BZ (BZ: 5 buzzer sounds)	1	DC12V DC24V AC110V-220V	-	● R-Red
	2	DC12V DC24V AC110V-220V		● R-Red ● G-Green
	3	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green
	4	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue
	5	DC12V DC24V AC110V-220V		● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

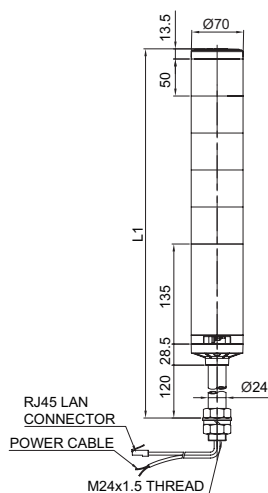
Light source/buzzer current(based on 1 layer)

Voltage	DC12V	DC24V	AC110V-220V
Light source current(1 layer)	285mA	300mA	Max.75mA
Buzzer current	215mA	245mA	Max.55mA

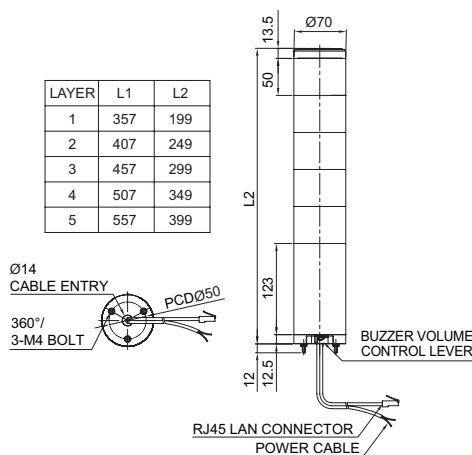
Technical Diagram

Units : mm

·QTR70L-ETN-BZ

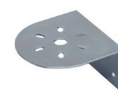


·QTR70ML-ETN-BZ



Customization

- Customized color arrangements
- Customized pole length available
- Wall mount bracket



Wall mount bracket
TWS80



Wall mount bracket
TWA80



Mounting bracket

Standard	LB24	LW24	QZ24	SZ24	QL24	SL24
						
Steel	Steel	ABS	ABS	Al	ABS	Al

※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

Wiring Instructions

- Apply properly rated voltage through the POWER CABLE
- Connect the RJ45 connector of the UTP cable into the PC's Ethernet port or router
- External power line UL1015 AWG18(0.75sq) x 2C 400mm
- Power plug will be provided in case of AC type
- UTP cable: Category 5 cable

Ordering Specifications

QTR70L-ETN-BZ	-	3	-	24	-	RAG	-	LW24
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTR70L-ETN-BZ		1-1 Layer		12-DC12V		● R-Red		None-Standard
QTR70ML-ETN-BZ		2-2 Layers		24-DC24V		● A-Amber		Bracket
QTRA70L-ETN-BZ		3-3 Layers		110/220-AC110V-220V		● G-Green		-LB24 -LW24
QTRA70ML-ETN-BZ		4-4 Layers				● B-Blue		-QZ24 -SZ24
		5-5 Layers				○ W-White		-QL24 -SL24

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Sales Corporation (Shanghai)
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Manufacturing Corporation (Qidong)
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Qidong, Jiangsu Province, China

Qlight Clients

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

SAMSUNG

HYUNDAI

KIA

POSCO

COUPANG

SK hynix

LG Chem

SK innovation

HYUNDAI STEEL

KSOE KOREA STEEL OIL & ENERGY EXCHANGE

SAMSUNG HEAVY INDUSTRIES

HYUNDAI CONSTRUCTION EQUIPMENT

DOOSAN

ExxonMobil

gm

Q.M.B.K.

FOXCONN

HUAWEI

Honeywell

L'ORÉAL PARIS

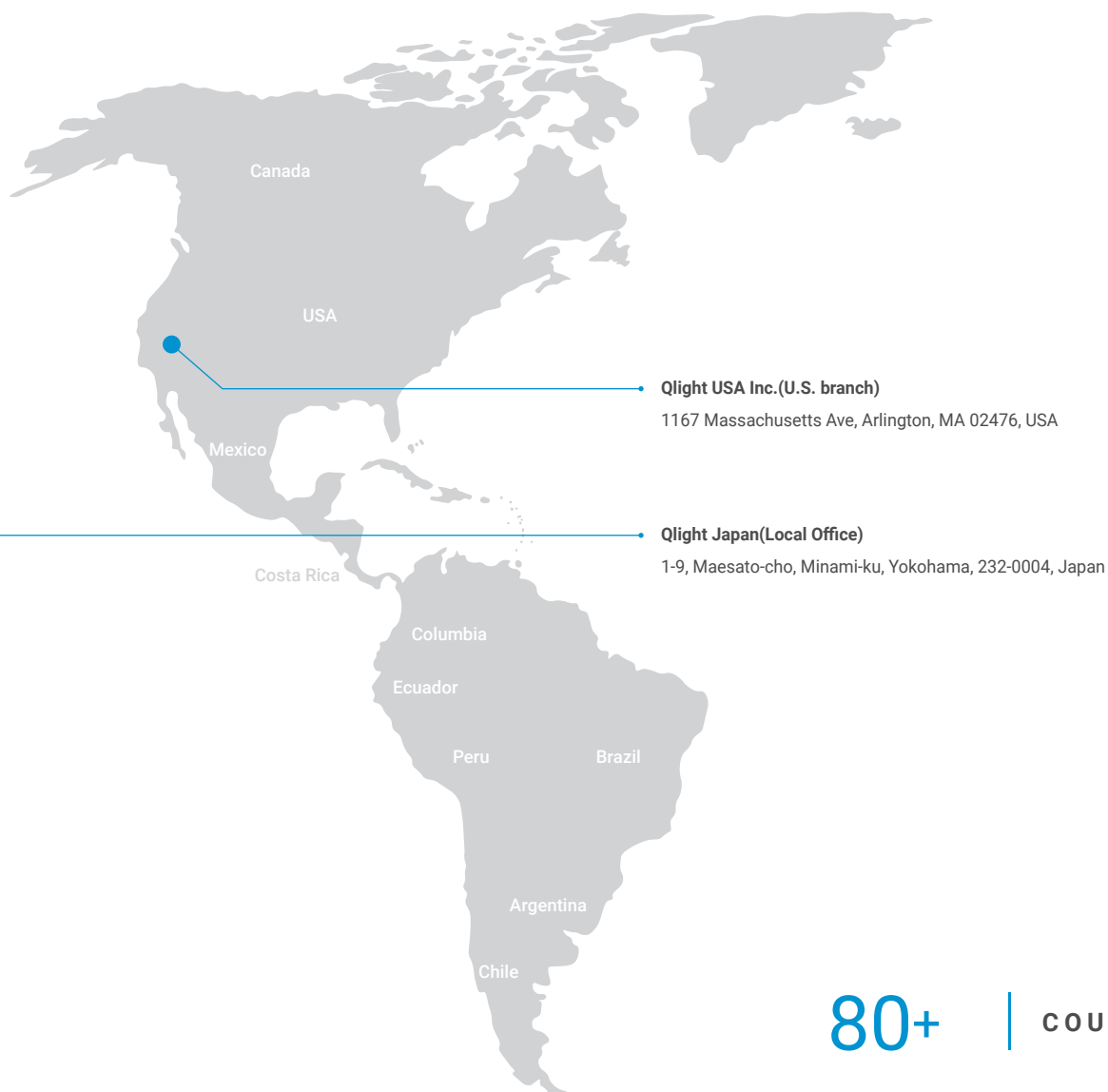
ISUZU

ADNOC

KONECRANES

Kulicke & Soffa

Qlight products have been exported all over the world in recognition of excellent technical capabilities and exceptional quality.
Qlight products are going to be distributed a lot more countries in the future.



80+ | COUNTRIES
250+ | DISTRIBUTORS



Gimhae Production Headquarters



Seoul Headquarters



Busan Business Center



Qlight China Factory

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



IECEx
International Explosion Proof
Certification(IECEx)



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



NEPSI
National Center for Explosion Protection
and Safety of Instrumentation



NRTL
Certified by designated U.S. laboratory



KCs
Korea safety Certification



TIIS
Technology Institution of
Industrial Safety



CCS
China Classification Society



TS
Industrial Safety Technology Institute
of Taiwan



FCC
Federal Communications Commission



S-mark
Safety Certification



KC
Korea Certification Mark



CCC
China Compulsory Certificate



CCCF
China Certification Center for
Security & Protection



UL
Underwriters Laboratories



CE
European Commission



ICAO
International Civil Aviation Organization



RoHS2
Restriction of Hazardous Substances
Directive

Qlight Catalog Introduction

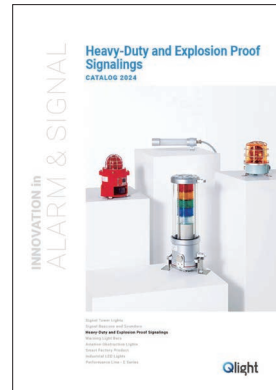
Qlight produces a wide variety of product categories which offers the customer the ability to select the suitable device for their application needs and environments. There are signal tower lights, Signal Beacons and Sounders, Heavy-Duty and Explosion Proof Signalings, Warning light bars, Aviation Obstruction Lights, Smart Factory Products, Industrial LED lights, and Performance Line - E Series



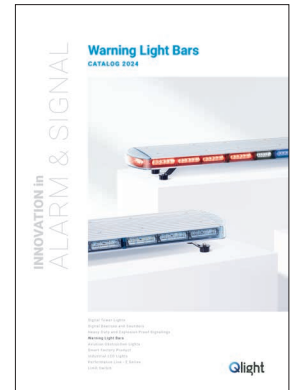
Signal Tower Lights



Signal Beacons and Sounders



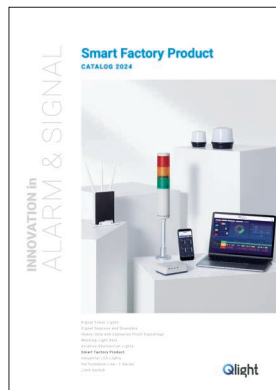
Heavy-Duty and Explosion Proof Signalings



Warning Light Bars



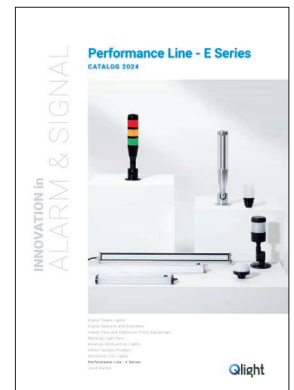
Aviation Obstruction Lights



Smart Factory Products



Industrial LED Lights



Performance Line - E Series

You could download and find the latest Catalog on the Qlight website.

* The latest product information could be accurately checked on the Qlight website (www.qlight.com). Please refer to the user manual attached with the product before installation and use.



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