INNOVATION in ALARM & SIGNAL

Smart Factory Product

CATALOG 2025

Qlight

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 signal transmission device specialist

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

2004 ISO 9001:2000 certificates acquired

2006 - 2017

Mission device specialist 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 headquarter factory built

History of Change & Innovation

2018 to Present

The 2nd growth and globalization

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

Qlight, the best professional company

Leading the **improvement of industrial efficiency**

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

Continuous growth for about 35 years

Based on a partnership-oriented corporate culture and sharing management, we have grown continuously for 35 years since our founding and are recognized for our quality and technology.

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

Multi-variety production

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

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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 overall 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

Waterproof and Dustproof Protection Structure

Comparing waterproof & dustproof protection structure

IP rating _ Known as "Ingress Protection rating" indicated in two-digit code showing the amount of protection against solid and the liquid(IEC60529)

IP 6 7

	First Number **Protection against solid**	Second Number **Protection against liquid**
0	No protection	No protection
1	Protected against solid objects over 50mm, eg accidental touch by persons hands	Protection against vertically falling drops of water eg condensation
2	Protected against solid objects over 125mm, eg persons fingers	Protection against direct sprays of water up to 15° from the vertical
3	Protected against solid objects over 25mm (tools and wires)	Protected against direct sprays of water up to 60° from the vertical
4	Protected against solid objects over 1mm (tools, wires, and small wires)	Protection against water sprayed from all directions - limited ingress permitted
5	Protected against dust limited ingress (no harmful deposit)	Protected against low pressure jets of water from all directions - limited ingress
6	Totally protected against dust	Protected against temporary flooding of water, eg for use on ship decks - limited ingress permitted
7		Protected against the effect of immersion between 15 cm and 1 m
8		Protects against long periods of immersion under pressure

NEMA SIZE

National Electrical Manufacturers Associations standard for enclosure protection rating, NEMA1-6 and 11-13 type is applicable in Non-Hazardous Locations, NEMA 7-10 is applicable in Hazardous Locations

Type	Usage place	Environment	Protection rating
1	Indoor Use	Non-explosion proof	Intended for indoor use primarily to provide a degree of protection against limited amounts of falling dirt
2	Indoor Use	Non-explosion proof	Intended for indoor use primarily to provide a degree of protection against limited amounts of falling water and dirt
3	Outdoor Use	Non-explosion proof	Intended for outdoor use primarily to provide a degree of protection against rain, sleet, windblown dust; and damage from external ice formation
3R	Outdoor Use	Non-explosion proof	Intended for outdoor use primarily to provide a degree of protection against rain, sleet; and damage from external ice formation, and must have a drain hole
3S	Outdoor Use	Non-explosion proof	Intended for outdoor use primarily to provide a degree of protection against rain, sleet, windblown dust; and to provide for operation of external mechanisms when ice laden
4	Indoor/Outdoor Use	Non-explosion proof	Intended for indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, hose directed water; and damage from external ice formation
4X		Non-explosion proof	Intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, hose directed water; and damage from external ice formation
5	Indoor Use	Non-explosion proof	Intended for indoor use primary to provide
6	Indoor/Outdoor Use	Non-explosion proof	Intended for indoor or outdoor use primarily to provide a degree of protection against hose directed water, the entry of water during occasional temporary submersion at a limited depth; and damage from external ice formation
6P		Non-explosion proof	Intended for indoor or outdoor use primarily to provide a degree of protection against hose-directed water, the entry of water during prolonged submersion at a limited depth; and damage from external ice formation
7	Outdoor Use	Explosion proof	Intended for indoor use in locations classified as Class I, Groups A, B, C, or D, as defined in the NEC
8	Indoor/Outdoor Use	Explosion proof	Intended indoor or outdoor use in locations classified as Class I, Groups A, B, C, or D, as defined in the NEC
9	Indoor Use	Explosion proof	Intended for indoor use in locations classified as Class II, Groups E, F, and G, as defined in the NEC
10	Indoor/Outdoor Use	Explosion proof	Are constructed to meet the applicable requirements of the Mine Safety and Health Administration (MSHA)
11	Indoor Use	Non-explosion proof	Protection from the corrosive effects of liquids and gases by oil immersion
12	Indoor Use	Non-explosion proof	Intended for indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping non-corrosive liquids
12K	Indoor Use	Non-explosion proof	Intended knockouts are intended for indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping non corrosive liquids
13	Indoor Use	Non-explosion proof	Intended for indoor use primarily to provide a degree of protection against dust, spraying of water, oil, and non-corrosive coolant

NEMA Ratings and IP Ratings Equivalency Chart

The chart below is for comparison between two enclosure ratings It is only for reference and these two rating standards are not exactly converted

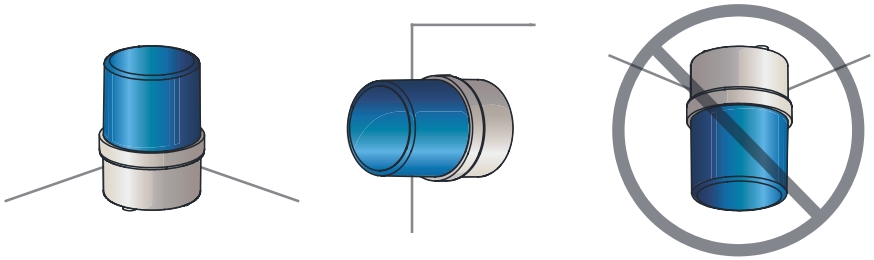
NEMA ENCLOSURE TYPE	IP ENCLOSURE TYPE
1	IP20
2	IP22
3	IP55
4	IP66
4X	IP66
6	IP67
12	IP54
13	IP54

PRODUCT INSTALLATION DIRECTION

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

· BEACON/SIGNALING LIGHT

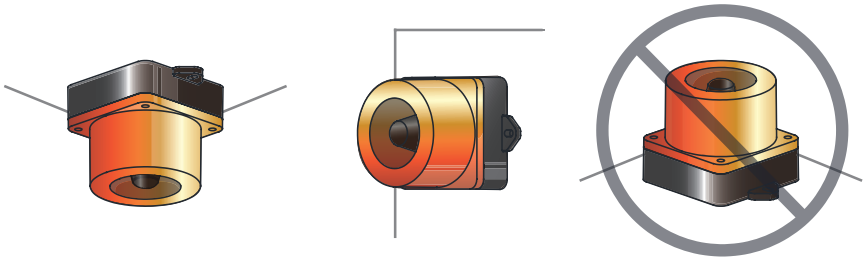
Power cord inlet part shall not be facing the sky.

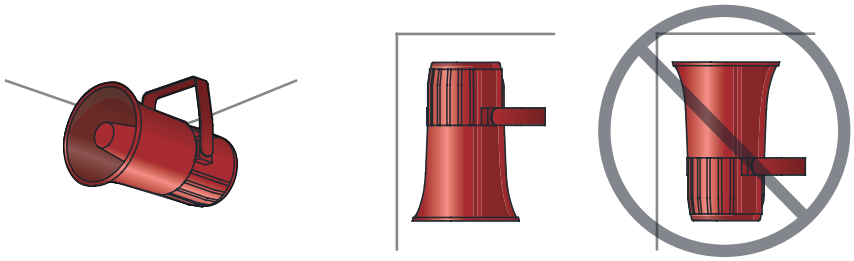


※ For products with a protection rating of less than IPX4, please install it vertically.

· ELECTRONIC SOUNDER /SIGNAL HORN

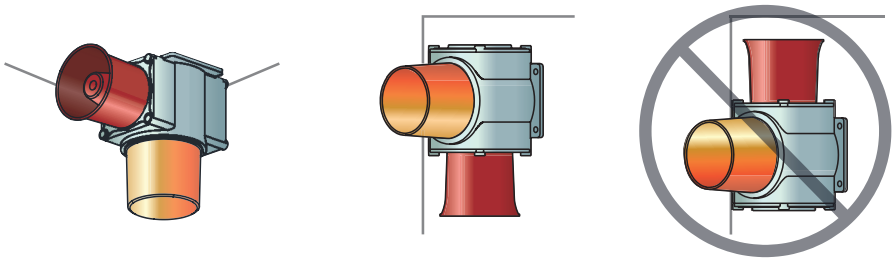
Sounder part shall not be facing the sky.





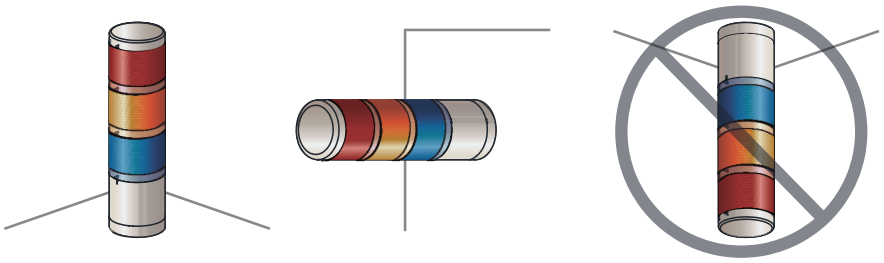
· HEAVY-DUTY & EXPLOSION PROOF SIGNALINGS

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

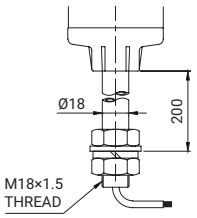
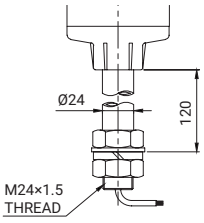
User can select from a variety of Mounting brackets options depending on their application conditions.

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.

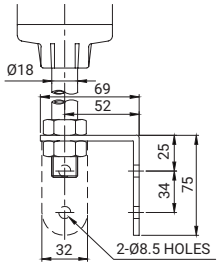
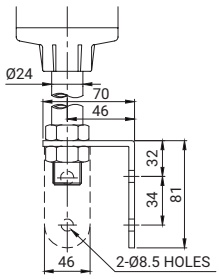
Material: Steel

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

· 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

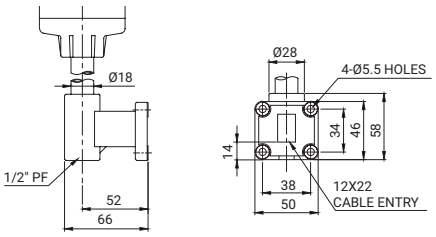
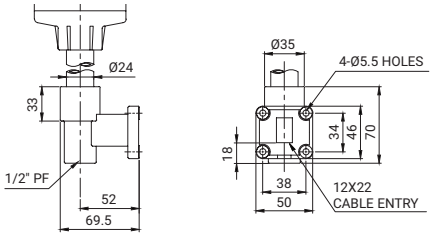
Tower Light Mounting brackets

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.

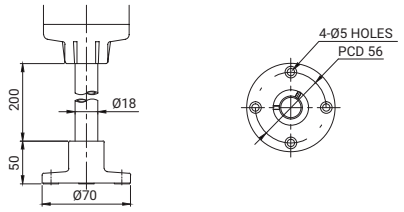
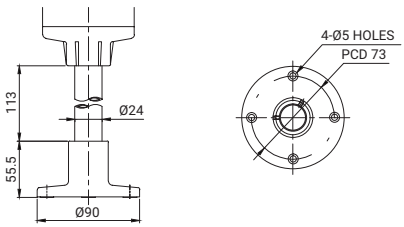
Material: ABS
Color: Ivory

Product Image	Technical Diagram for Applicable Models
 LW18	 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
 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	Technical Diagram for Applicable Models
 SZ18	 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
 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

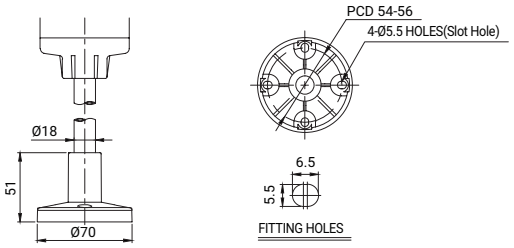
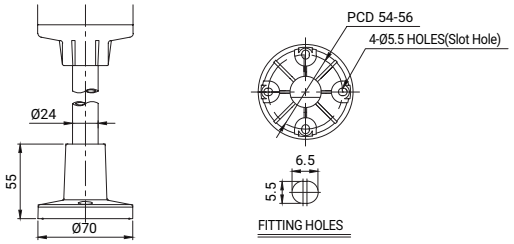
Tower Light Mounting brackets

Units: mm

· QZ18 | QZ24

Round-shaped bracket for horizontal surface installation.

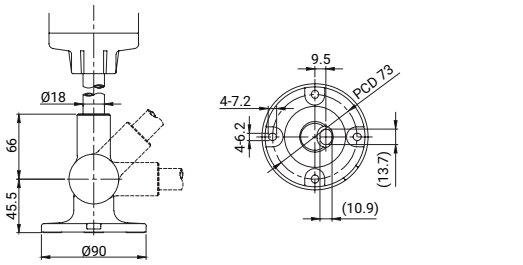
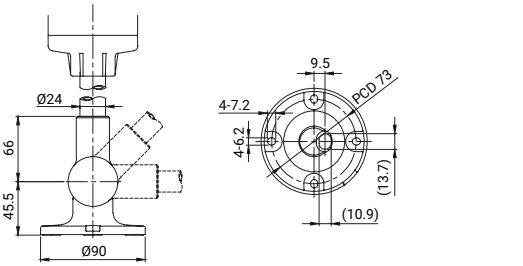
Material: ABS
Color: Black

Product Image	Technical Diagram for Applicable Models
 QZ18	 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	Technical Diagram for Applicable Models
 SL18	 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

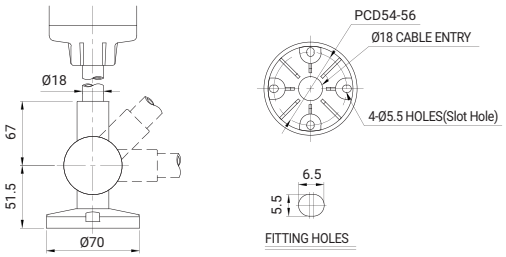
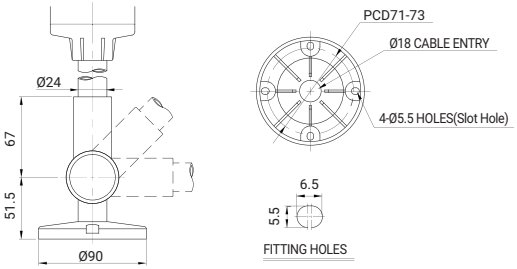
Tower Light Mounting brackets

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.

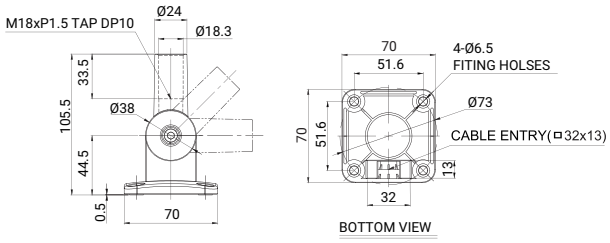
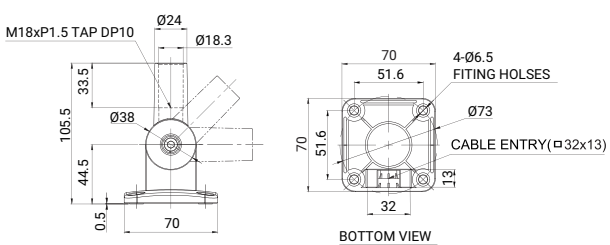
Material: ABS
Color: Black

Product Image	Technical Diagram for Applicable Models
 QL18	 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

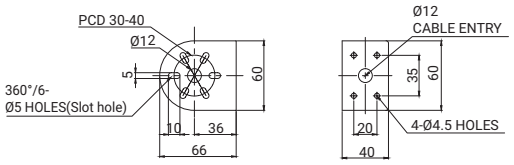
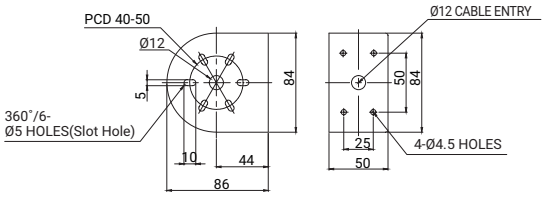
Product Image	Technical Diagram for Applicable Models
 FB18 (Black)	 EST56L
 FB18 (Ivory)	 EST56L

Tower Light Mounting brackets

Units: mm

· TWS45 | TWS80

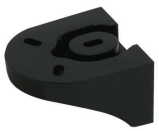
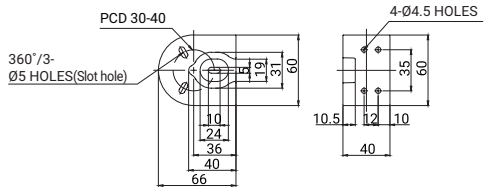
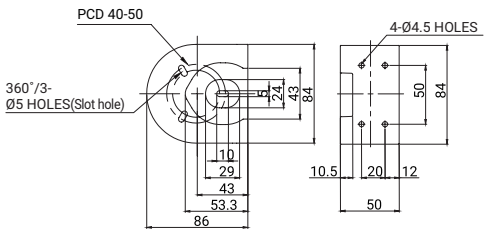
Bracket options for direct mount warning/signal light installation.
Material: Steel
Color: Silver, Ivory

Product Image	Technical Diagram for Applicable Models
 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 warning/signal light installation.
Bracket structure allows for contained and tidy wiring with no exposed wires.

Material: PC
Color: Black, Ivory

Product Image	Technical Diagram for Applicable Models
 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

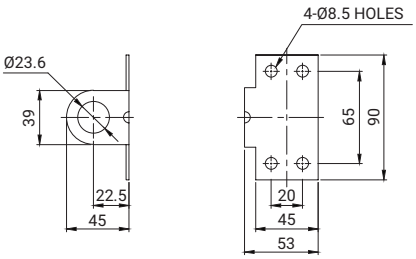
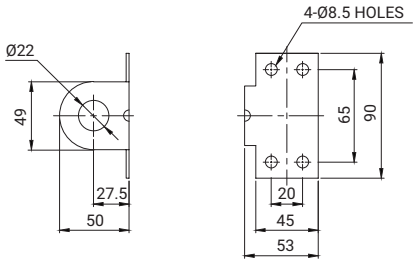
Tower Light Mounting brackets

Units: mm

· STAWB25 | STAWB45

Bracket options for direct mount warning/signal light installation.

Material: Steel
Color: Silver, Ivory

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)		

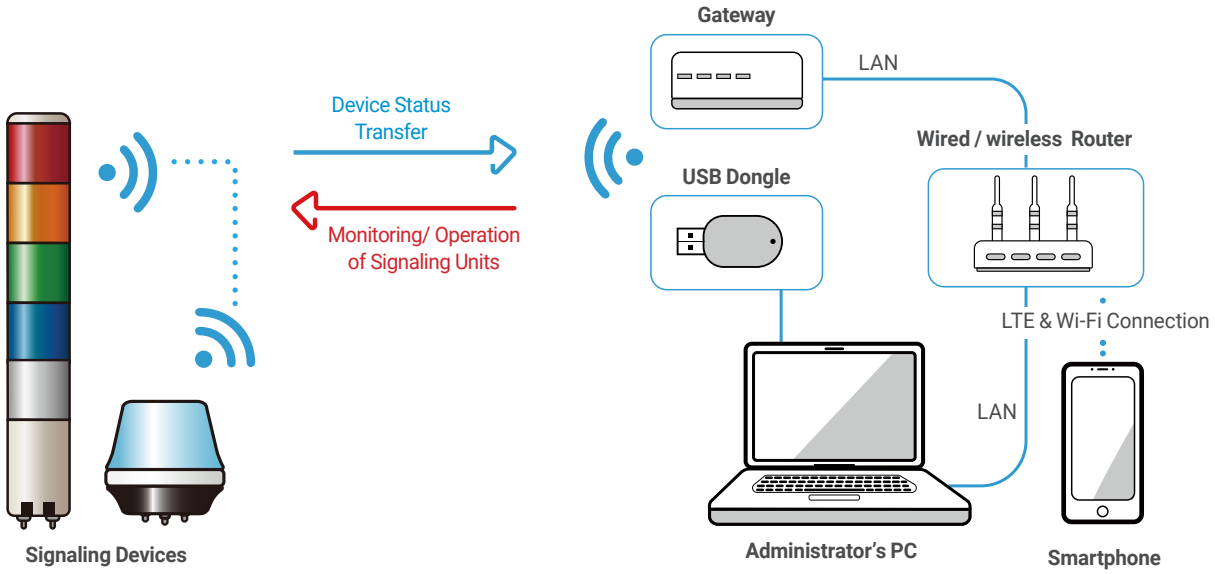
Specifications Icons

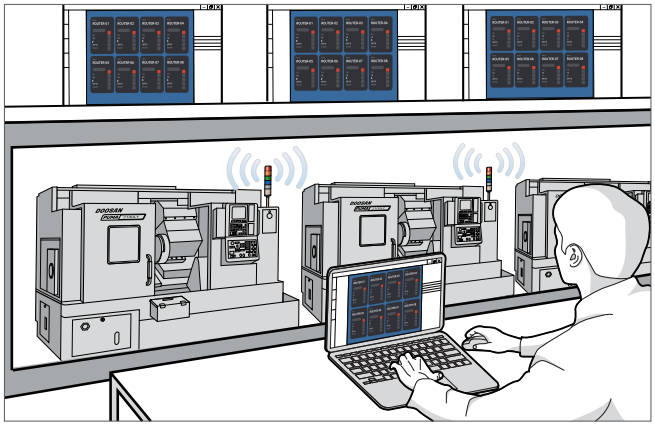
Icon	Specification	Icon	Specification
	Magnet type		Ambient operating temperature
	NPN type transistor		PNP type transistor
	IP rating		Wireless Network
	RoHS		

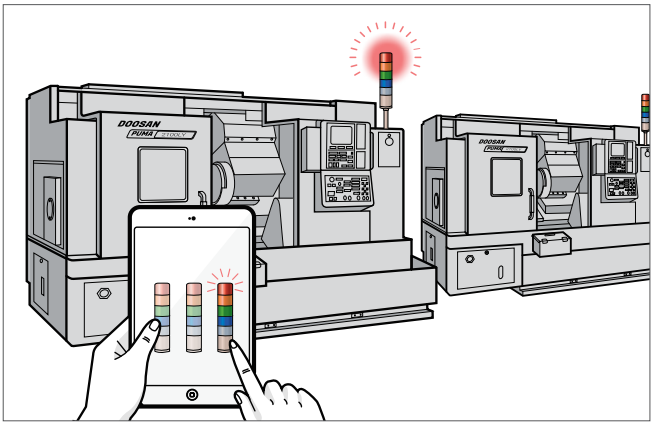
Wireless Network System | CAN, RS485 Protocol Controlled Product

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.



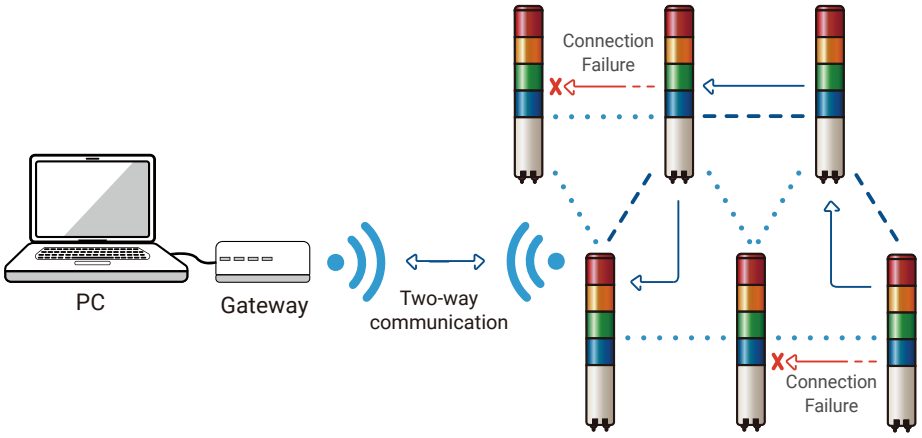




- Uses a Mesh Topology that operates in 2.4 GHz short-range wireless technology which ensures the communication reliability in harsh environments
- Multi-hop function of the signaling device enables stable long-distance communication (with up to 100M between devices)

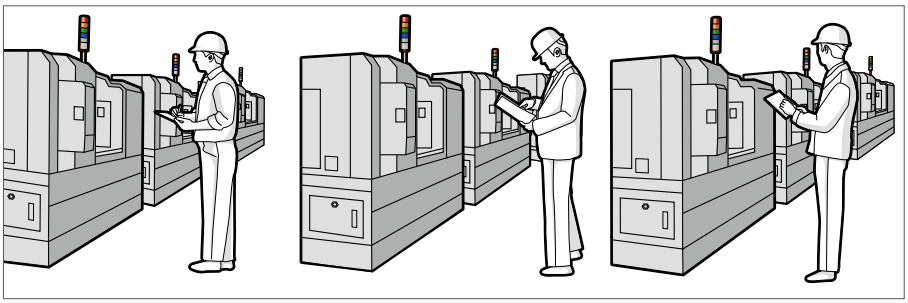
Routing function that automatically navigates the optimum communication path

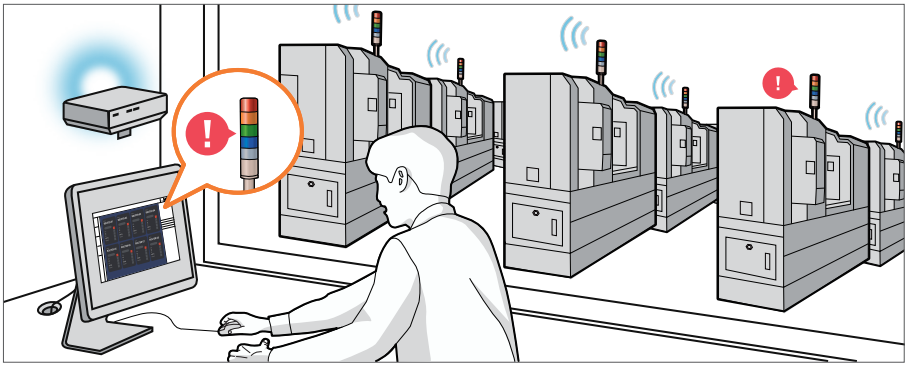
- Mesh network selects the strongest signal path for traffic and automatically steers signals around interference to ensure high availability of mesh links.
- Once there's a problem with wireless communication, the signaling device will find a new communication route in order to maintain smooth communication.



Building an advanced production network system with a low cost

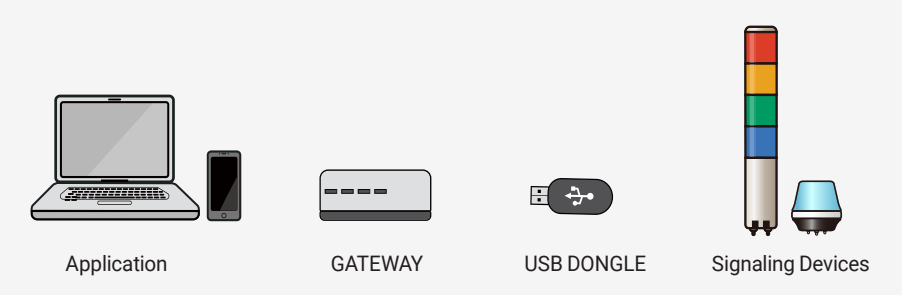
- Combining a new network system to existing production lines can be easily done by connecting wireless signal devices.
- Cost-effectiveness by requiring no additional cable when change the layout of production lines.





Wireless Network System Application

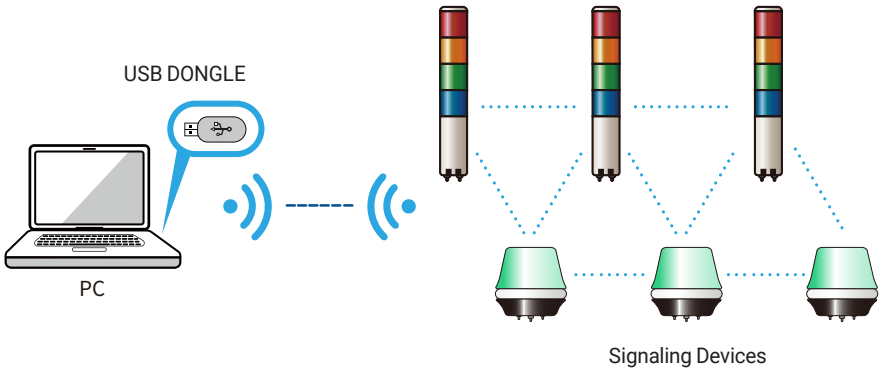
Components



1. Connection Types

1) Connection via USB Dongle

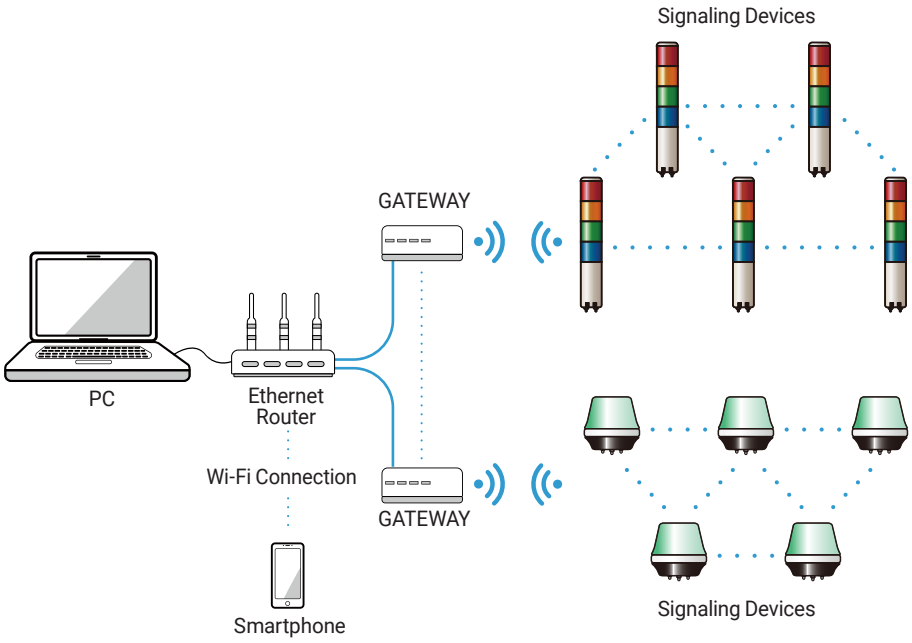
· Easy installation and operation by plugging it to a PC, suitable for a single or small-scaled wireless network connection needs.(controls and monitors up to 32 wireless devices)



2) Connection via GATEWAY

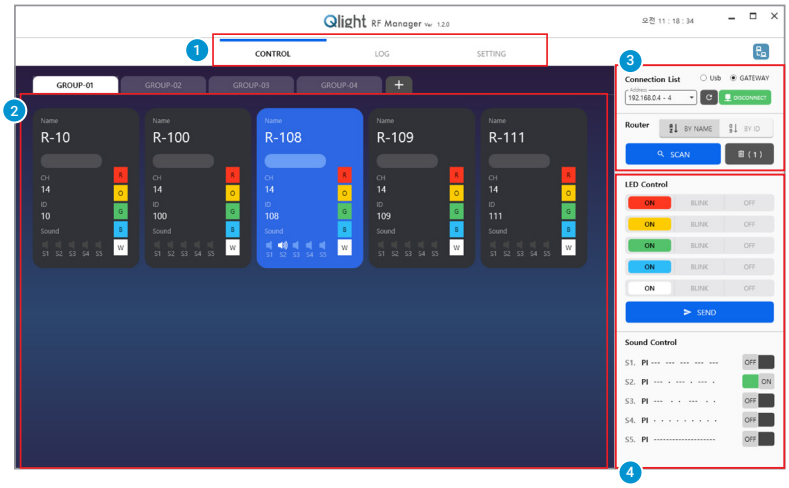
· Connecting multiple gateways allow 768 wireless signaling devices to be connected to the network, suitable for large-scaled production facilities.

· 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

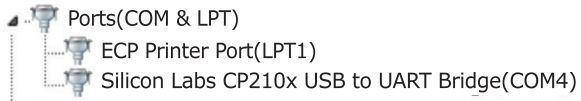
3 Function to connect USB DONGLE and Gateway and scan wireless devices

4 Control selected devices through the device viewer window

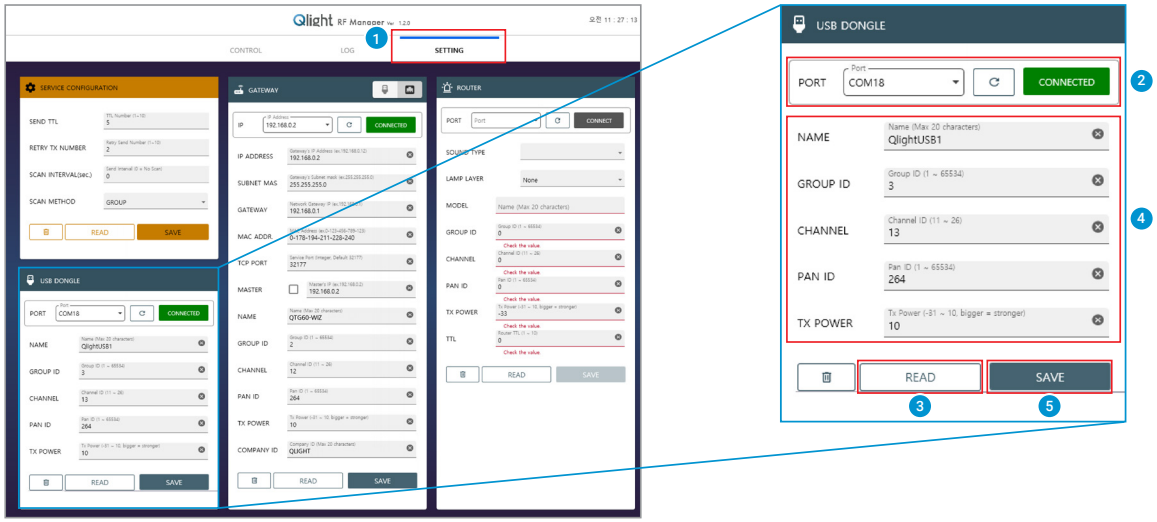
1) USB Dongle

· 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.

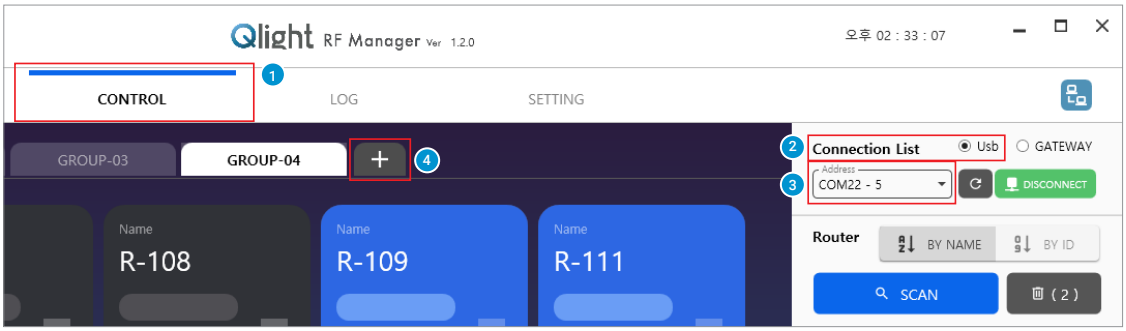
3 Press the READ button to load the RF information of the currently set USB DONGLE.

4 Check and modify the RF information of the USB DONGLE.

5 Click the SAVE button to save the modified information.

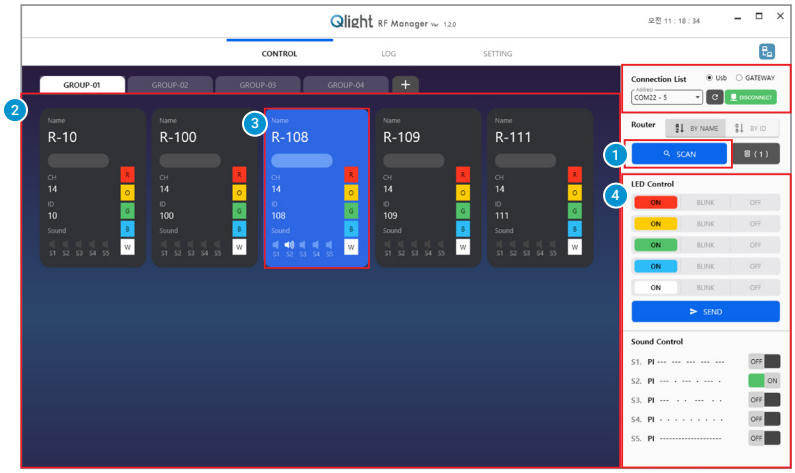
Wireless Network System Application

• 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.

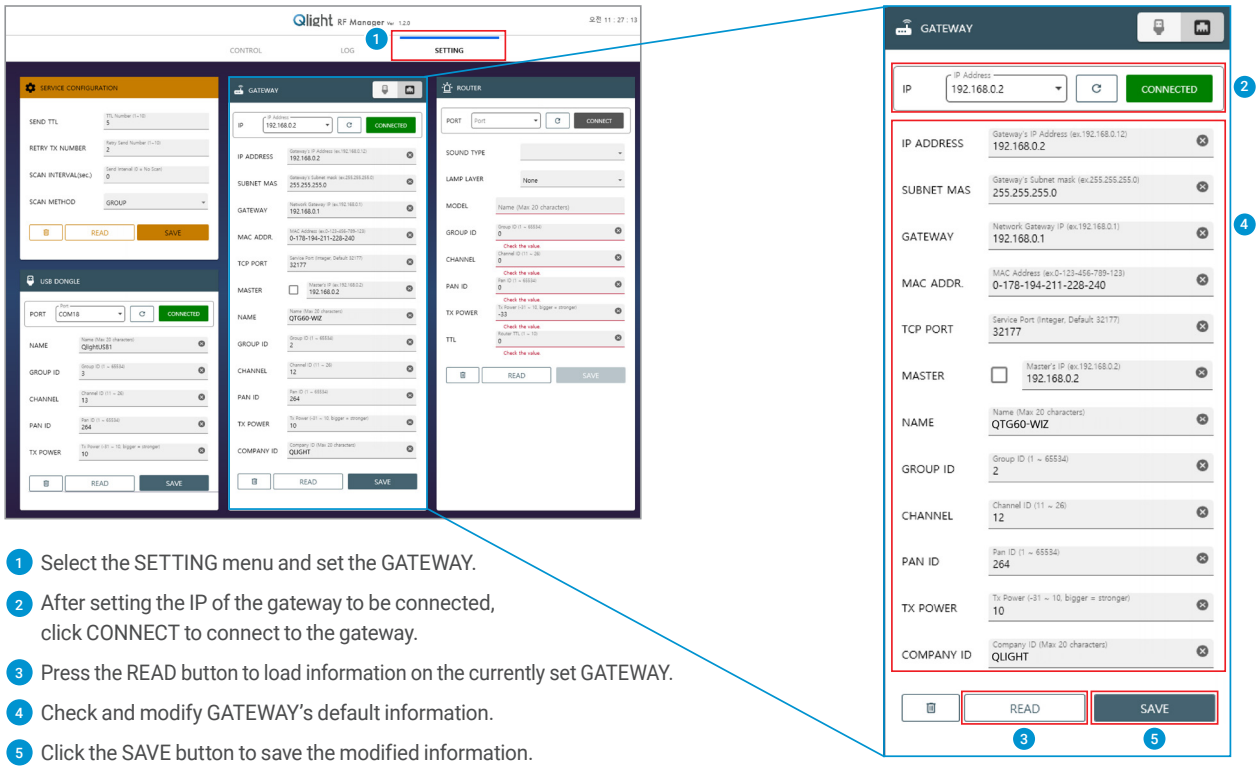
· Setting and Usage

- 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?

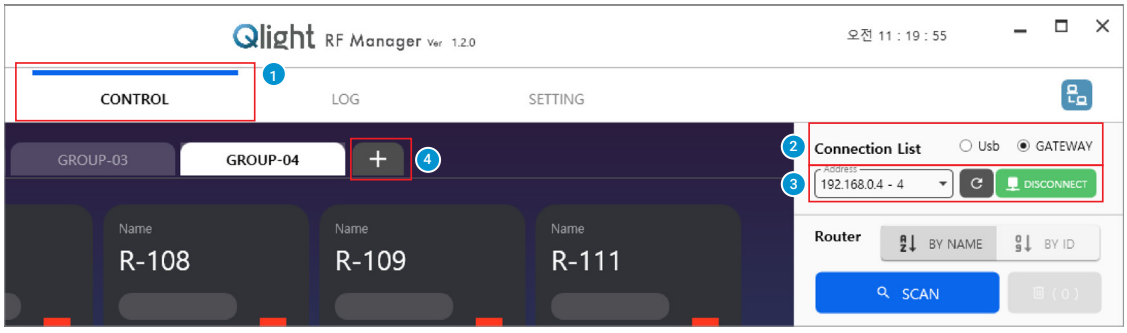
What is IIS? IIS stands for Microsoft's Internet information Services which is a WINDOWS service used for web service.
With IIS, services such as FTP, SMTP, NNTP, and HTTP/ HTTPS are available.

• 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.

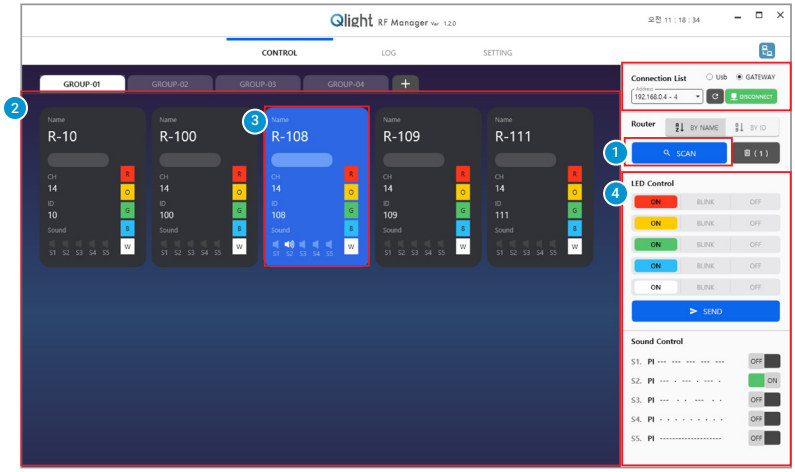
• GATEWAY CONNECTION



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

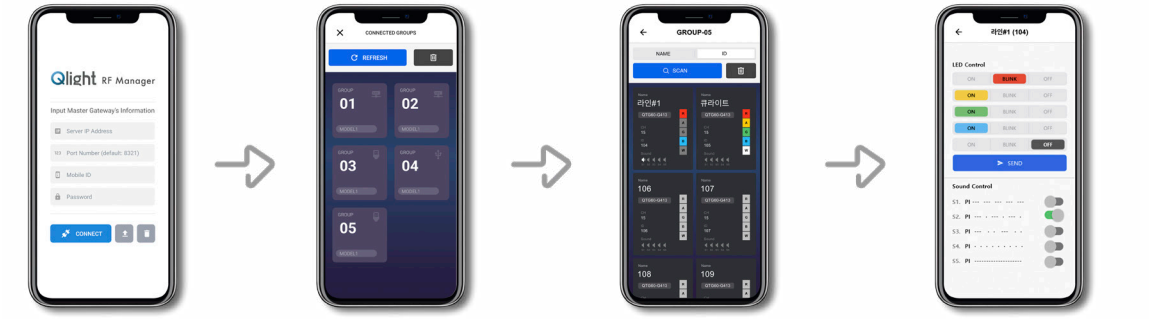
• GATEWAY CONNECTION



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.



Qlight RF Manager Page access → **Gateway Group select** → **Select connected wireless device** → **Check and control wireless device status**

Specification List For Wireless Products

Wireless LED Tower Lights

Model number		QTG60ML-WIZ	QTG60L-WIZ	QTG70ML-WIZ	QTG70L-WIZ
Voltage		DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V
Dimension (mm)	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	●	●	●	●
Sound & volume	Buzzer sound	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m
	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)
Voltage		DC12V, DC24V	USB 5V	DC12V-24V AC110V-220V
Dimension (mm)	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

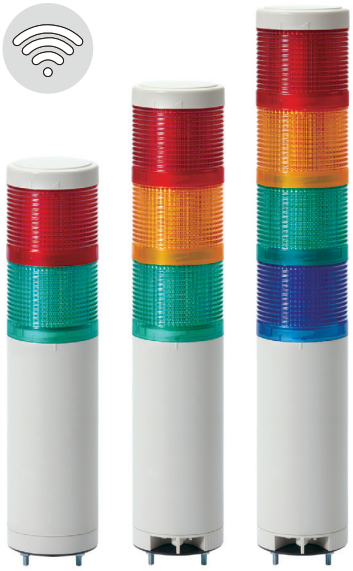
Model number		CPK-CAN	CPK-RS485
Voltage		DC12V-24V	DC12V-24V
Dimension (mm)	Outdia	80 x 80	80 x 80
	Height	-	-
	Depth	75	75
Material		ABS	ABS
Sound & volume	Buzzer		
	MP3	Max. 85dB at 1m	Max. 85dB at 1m
Mount bracket		Panel mount	Panel mount
Protection rating		IP65	IP65
Usage place		Indoor/Outdoor Use	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

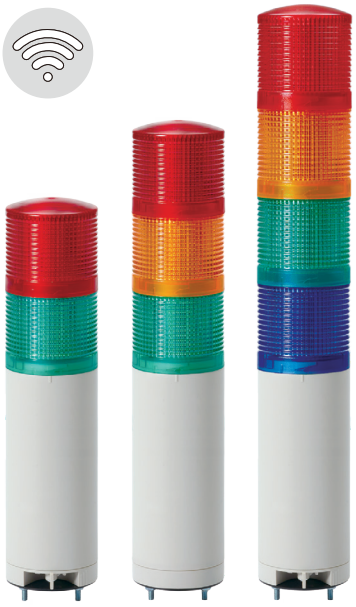
QTG60ML-WIZ

IP54 | IP65 | +50℃ -30℃ | BUZZER | 85dB | NPN | RoHS | WIRELESS

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 QTG60ML-WIZ-BZ Steady w/built-in buzzer	1	DC12V DC24V AC110V-220V	KC CE FC	0.32kg 0.32kg 0.36kg	R-Red
QTG60MLF-WIZ Steady/Flashing QTG60MLF-WIZ-BZ Steady/Flashing w/ built-in buzzer	2	DC12V DC24V AC110V-220V		0.37kg 0.37kg 0.41kg	R-Red G-Green
	3	DC12V DC24V AC110V-220V		0.42kg 0.42kg 0.46kg	R-Red A-Amber G-Green
QTGA60ML-WIZ Steady QTGA60ML-WIZ-BZ Steady w/built-in buzzer	4	DC12V DC24V AC110V-220V		0.47kg 0.47kg 0.51kg	R-Red A-Amber G-Green B-Blue
QTGA60MLF-WIZ Steady/Flashing QTGA60MLF-WIZ-BZ Steady/Flashing w/ built-in buzzer	5	DC12V DC24V AC110V-220V		0.52kg 0.52kg 0.56kg	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

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 Specifications

QTG60ML-WIZ	-	3	-	110/220	-	RAG

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

QTG60L-WIZ

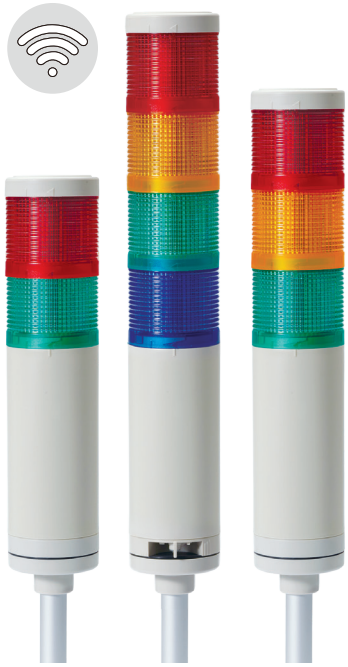
IP54 | IP65 | +50℃ -30℃ | BUZZER | 85dB | NPN | RoHS | WIRELESS

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

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



QTG60L-WIZ Series

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

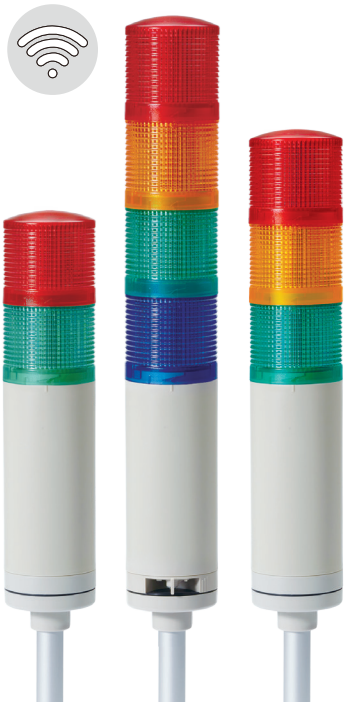
Mounting bracket

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



QTGA60L-WIZ Series

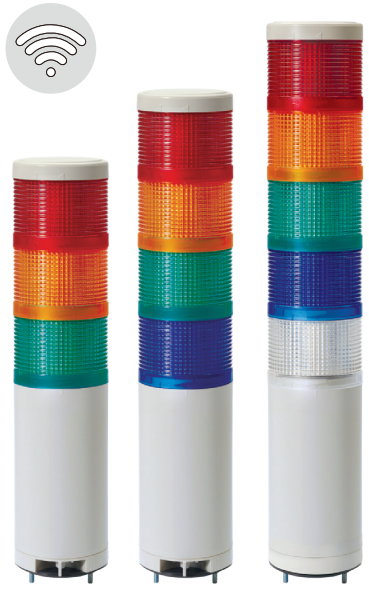
Ordering Specifications

QTG60L-WIZ	-	3	-	110/220	-	RAG	-	LW18

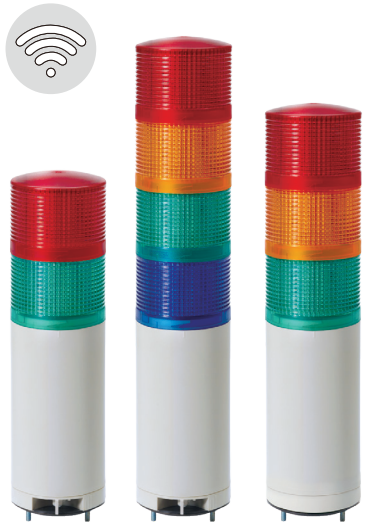
[Model number]	[Layers]	[Voltage]	[Color]	[Bracket]
QTG60L-WIZ QTG60L-WIZ-BZ QTG60LF-WIZ QTG60LF-WIZ-BZ QTGA60L-WIZ QTGA60L-WIZ-BZ QTGA60LF-WIZ QTGA60LF-WIZ-BZ	1-1 Layer 2-2 Layers 3-3 Layers 4-4 Layers 5-5 Layers	12-DC12V 24-DC24V 110/220-AC110V-220V	R-Red A-Amber G-Green B-Blue W-White	None-Standard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

QTG70ML-WIZ

IP54 | IP65 | +50℃ -30℃ | BUZZER | 85dB | NPN | RoHS | WIRELESS



QTG70ML-WIZ Series



QTGA70ML-WIZ Series

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

Model number	Layers	Voltage	Certificates	Weight	Color
QTG70ML-WIZ Steady QTG70ML-WIZ-BZ Steady w/built-in buzzer	1	DC12V DC24V AC110V-220V	KC CE FC	0.38kg 0.38kg 0.41kg	R-Red
QTG70MLF-WIZ Steady/Flashing QTG70MLF-WIZ-BZ Steady/Flashing w/ built-in buzzer	2	DC12V DC24V AC110V-220V		0.44kg 0.44kg 0.47kg	R-Red G-Green
	3	DC12V DC24V AC110V-220V		0.50kg 0.50kg 0.53kg	R-Red A-Amber G-Green
QTGA70ML-WIZ Steady QTGA70ML-WIZ-BZ Steady w/built-in buzzer QTGA70MLF-WIZ Steady/Flashing	4	DC12V DC24V AC110V-220V		0.56kg 0.56kg 0.59kg	R-Red A-Amber G-Green B-Blue
QTGA70MLF-WIZ-BZ Steady/Flashing w/ built-in buzzer	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 Specifications

QTG70ML-WIZ	-	3	-	110/220	-	RAG

[Model number]
QTG70ML-WIZ
QTG70ML-WIZ-BZ
QTG70MLF-WIZ
QTG70MLF-WIZ-BZ
QTGA70ML-WIZ
QTGA70ML-WIZ-BZ
QTGA70MLF-WIZ
QTGA70MLF-WIZ-BZ

[Layers]
1-1 Layer
2-2 Layers
3-3 Layers
4-4 Layers
5-5 Layers

[Voltage]
12-DC12V
24-DC24V
110/220-AC110V-220V

[Color]
R-Red
A-Amber
G-Green
B-Blue
W-White

QTG70L-WIZ

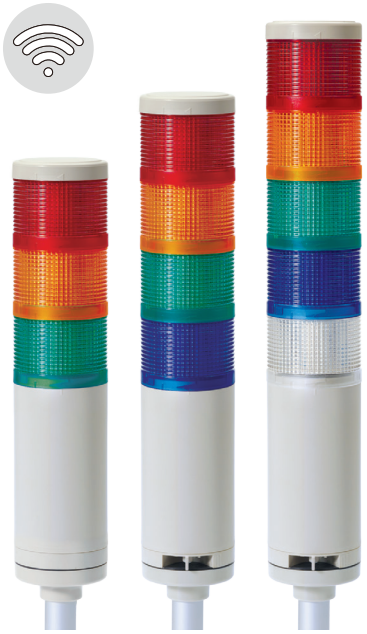
IP54 IP65 +50℃ -30℃ BUZZER 85dB NPN RoHS WIRELESS

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

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



QTG70L-WIZ Series

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

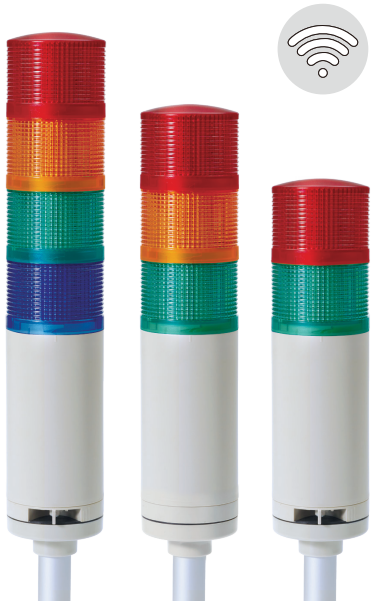
Mounting Bracket

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)



QTGA70L-WIZ Series

Ordering Specifications

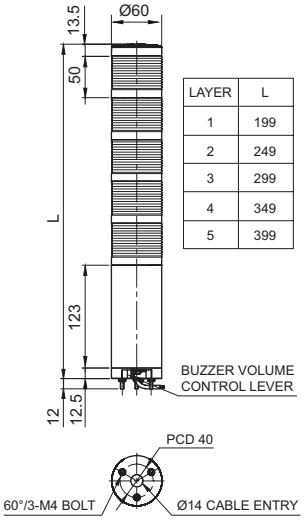
QTG70L-WIZ	-	3	-	110/220	-	RAG	-	LW24
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTG70L-WIZ QTG70L-WIZ-BZ QTG70LF-WIZ QTG70LF-WIZ-BZ QTGA70L-WIZ QTGA70L-WIZ-BZ QTGA70LF-WIZ QTGA70LF-WIZ-BZ		1-1 Layer 2-2 Layers 3-3 Layers 4-4 Layers 5-5 Layers		12-DC12V 24-DC24V 110/220-AC110V-220V		R-Red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

QTG-WIZ Series

Technical Diagram

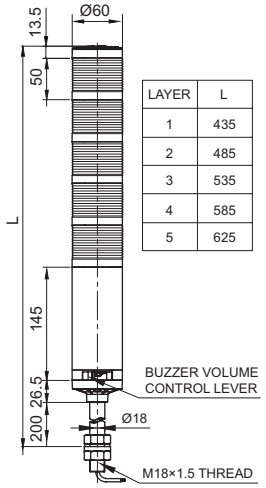
Units : mm

·QTG60ML(F)-WIZ Series



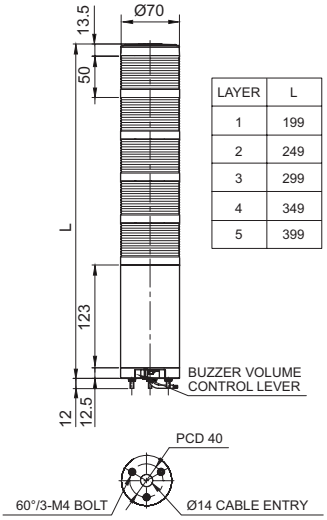
LAYER	L
1	199
2	249
3	299
4	349
5	399

·QTG60L(F)-WIZ Series



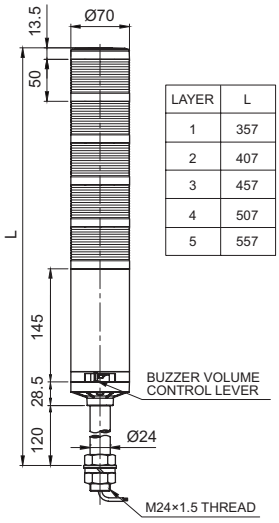
LAYER	L
1	435
2	485
3	535
4	585
5	625

·QTG70ML(F)-WIZ Series



LAYER	L
1	199
2	249
3	299
4	349
5	399

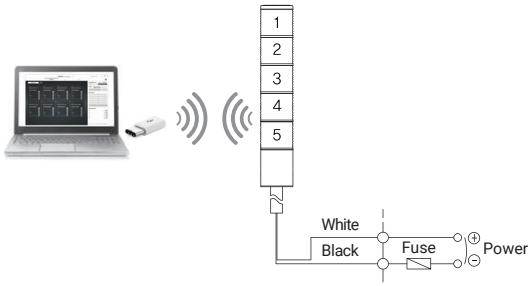
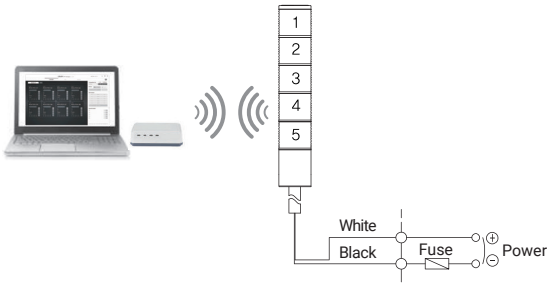
·QTG70L(F)-WIZ Series

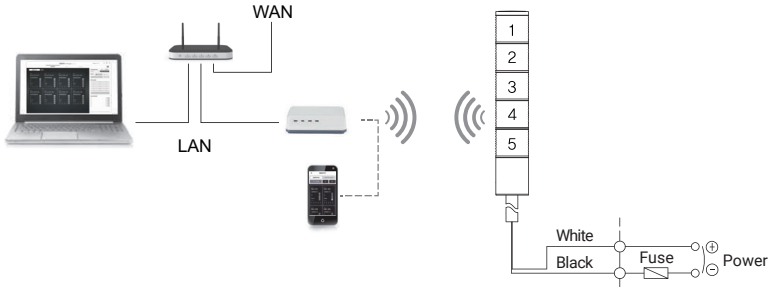


LAYER	L
1	357
2	407
3	457
4	507
5	557

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
QTG60ML(F)-WIZ QTG60L(F)-WIZ QTG70ML(F)-WIZ QTG60L(F)-WIZ		
	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
QTG60ML(F)-WIZ QTG60L(F)-WIZ QTG70ML(F)-WIZ QTG60L(F)-WIZ	
	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

QTG-WIZ Series

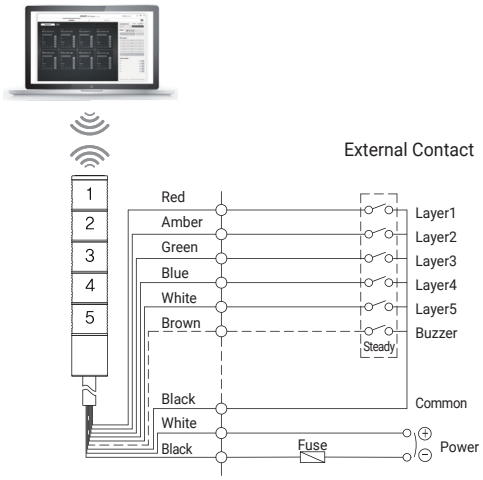
Wiring Instructions

· 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.

External Contact

AC/DC Steady

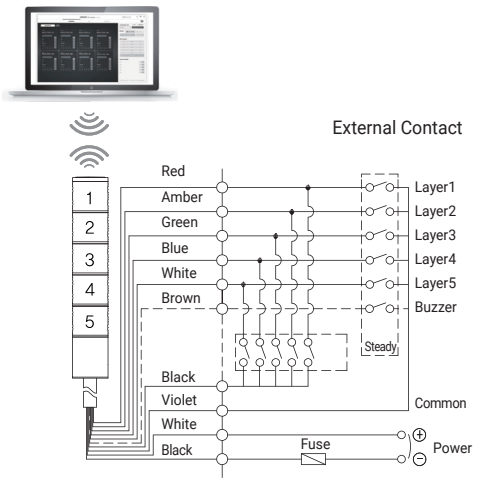
QTG60ML-WIZ
QTG60L-WIZ
QTG70ML-WIZ
QTG70L-WIZ



· QTG(A) □□ (M)L - WIZ: Buzzer same wiring instruction
· QTG □□ L
└ Lens diameter 60(60mm): QTG60(M)L
Lens diameter 70(70mm): QTG70(M)L

DC Steady/ Flashing

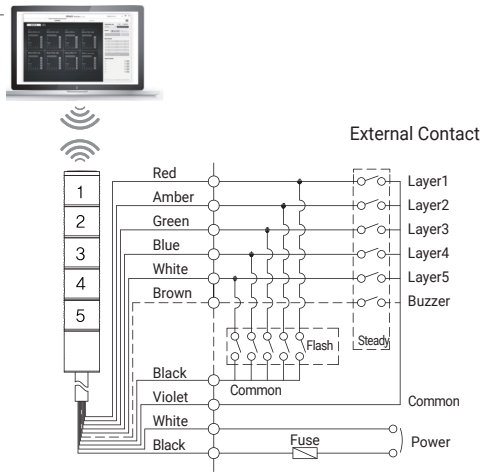
QTG60MLF-WIZ
QTG60LF-WIZ
QTG70MLF-WIZ
QTG70LF-WIZ



· QTG(A) □□ (M)L - WIZ: Buzzer same wiring instruction
· QTG □□ L
└ Lens diameter 60(60mm): QTG60(M)L
Lens diameter 70(70mm): QTG70(M)L

AC Steady/ Flashing

QTG60MLF-WIZ
QTG60LF-WIZ
QTG70MLF-WIZ
QTG70LF-WIZ



· QTG(A) □□ (M)L - WIZ: Buzzer same wiring instruction
· QTG □□ L
└ Lens diameter 60(60mm): QTG60(M)L
Lens diameter 70(70mm): QTG70(M)L

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

Wiring Instructions

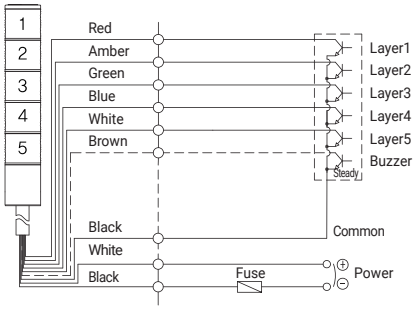
· Wiring to transistor, use the NPN transistor. Please wire properly based on wiring instructions below.

External Transistor

AC/DC Steady

QTG60ML-WIZ
QTG60L-WIZ
QTG70ML-WIZ
QTG70L-WIZ

External transistor-NPN

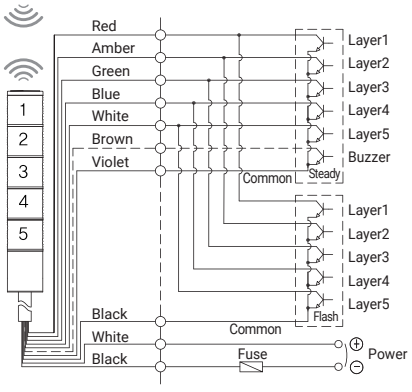


· QTG(A) □□ (M)L - WIZ: Buzzer same wiring instruction
· QTG □□ L
└ Lens diameter 60(60mm): QTG60(M)L
Lens diameter 70(70mm): QTG70(M)L

DC
Steady/Flashing

QTG60MLF-WIZ
QTG60LF-WIZ
QTG70MLF-WIZ
QTG70LF-WIZ

External transistor-NPN

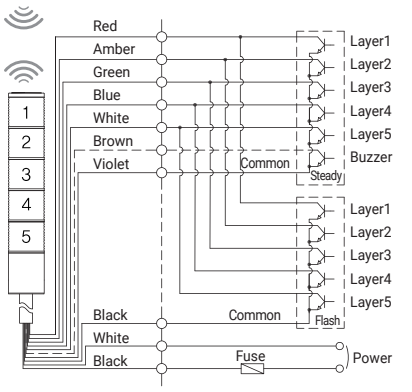


· QTG(A) □□ (M)L - WIZ: Buzzer same wiring instruction
· QTG □□ L
└ Lens diameter 60(60mm): QTG60(M)L
Lens diameter 70(70mm): QTG70(M)L

AC
Steady/Flashing

QTG60MLF-WIZ
QTG60LF-WIZ
QTG70MLF-WIZ
QTG70LF-WIZ

External transistor-NPN



· QTG(A) □□ (M)L - WIZ: Buzzer same wiring instruction
· QTG □□ L
└ Lens diameter 60(60mm): QTG60(M)L
Lens diameter 70(70mm): QTG70(M)L

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

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
- Milky translucent color when off, the soft LED illuminates designated colors when on

QMCL125-WIZ Ø125mm Wireless Multiple Color LED Steady Signal Lights

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

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

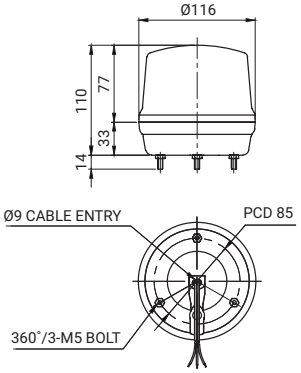
Wall mount bracket SWP125

Wall mount bracket SWM125

Technical Diagram

Units : mm

·QMCL125-WIZ



IP65 | +50℃ -30℃ | BUZZER | 80dB | NPN | RoHS | WIRELESS

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

Ordering Specifications

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

Signal Color Options

Red | Green | Blue | Amber | Cyan | Purple | White

QMCL125-WIZ

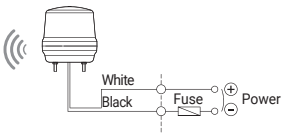
Wiring Instructions

· Please refer to Wiring Instructions diagram to properly configure wireless network option

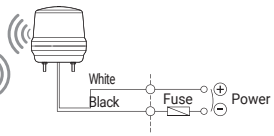
Connection by USB

Connection via USB Dongle

QMCL125-WIZ



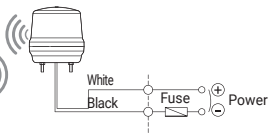
Connection via Gateway



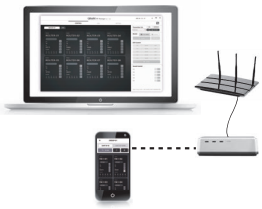
Connection by Ethernet

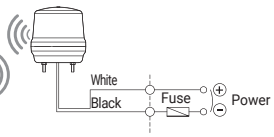
Ethernet connection via Gateway

QMCL125-WIZ



Connection via Gateway and Ethernet Router

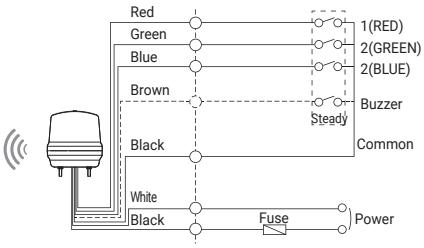




· Please refer to below wiring Instructions diagram to properly configure External Contact and transistor options

External Contact

QMCL125-WIZ

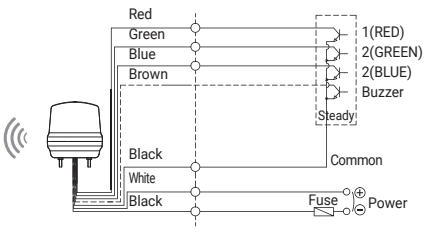


· Wiring Configuration for Signal Color

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)

External Transistor

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)

WIZ32

+50℃ -25℃ RoHS WIRELESS

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 signal information devices through two-way communication
- Up to 32 of wireless signal information devices can be connected
- Separate power supply is not required, and only USB Dongle(RS232) is connected to PC.
- Wireless communication standard: IEEE 802.15.4 Standard
- Data rate: 250Kbps

WIZ32(USB Dongle)

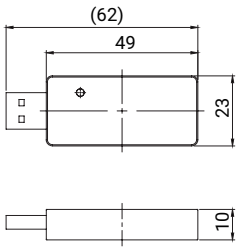
WIZ32(USB Dongle) Wireless network system receiving device

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)	KC CE FC	0.01kg

Technical Diagram

Units : mm

· WIZ32



GW768

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 signal information devices through two-way communication
- Up to 32ea of wireless signal information devices can be connected per gateway
- Up to 24ea of device can be connected via LAN using Ethernet communication (Maximum 768ea of wireless signal information devices 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

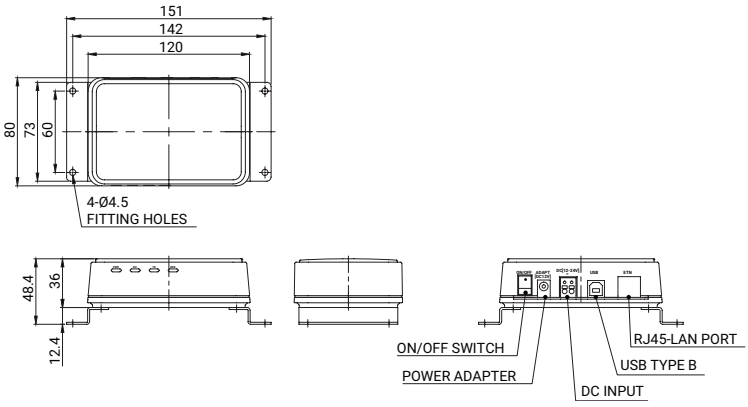
Model number	Voltage	Current	Interface	Wireless standard	Radio frequency/ number of channels	Certificates	Weight
GW768	DC12-24V	Max. 510mA	USB2.0 /Ethernet	IEEE 802.15.4 Standard	2405MHz-2480MHz(16ch)	KC CE FC	0.25kg
	AC110-220V	Max. 115mA					

※ KC compliant: DC12V

Technical Diagram

Units : mm

·GW768



Ordering Specifications

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

CPK-CAN

IP65 | +50℃ -25℃ | SPK | 85dB | RoHS

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

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

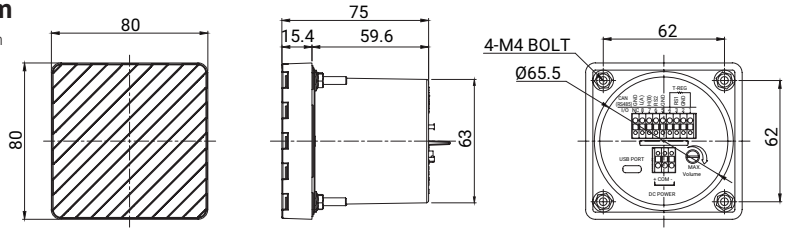
CPK-CAN Signal phone for CAN communication panel, Max.85dB

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

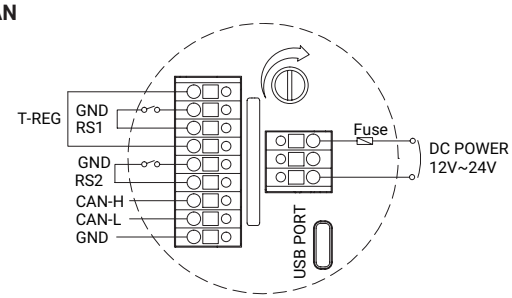
※ DC type model has a free-voltage range of 10V-36V
※ When playing MP3 files, there may be difference of volume depending on user's audio file type.

Technical Diagram ·CPK-CAN

Units: mm



Wiring Instructions ·CPK-CAN



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

IP65 | +50℃ -25℃ | SPK | 85dB | RoHS

CPK-RS485

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

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

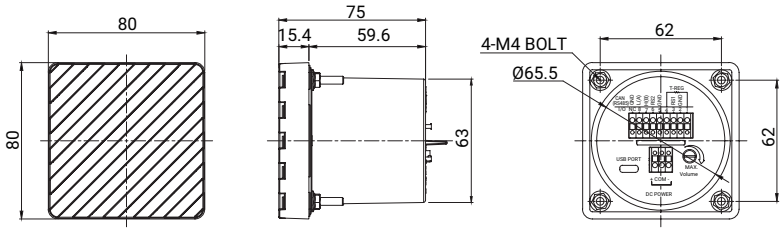
CPK-RS485 Signal phone for RS485 communication panel

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.

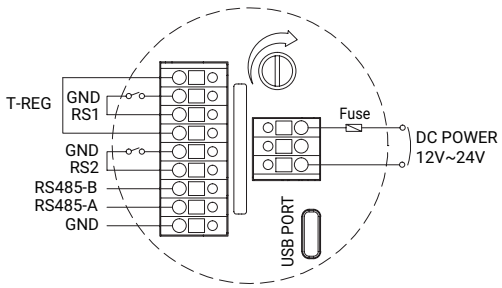
Technical Diagram ·CPK-RS485

Units: mm



Wiring Instructions

·CPK-RS485



Ordering Specification

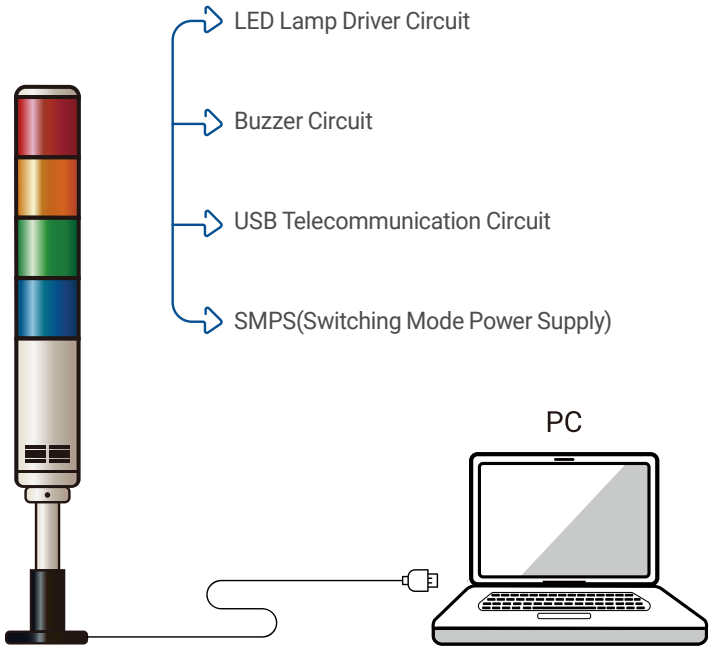
CPK-RS485	-	12/24
[Model number]		[Voltage]
CPK-RS485		12/24-DC12V-24V

USB/Ethernet Signal Tower Lights

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.

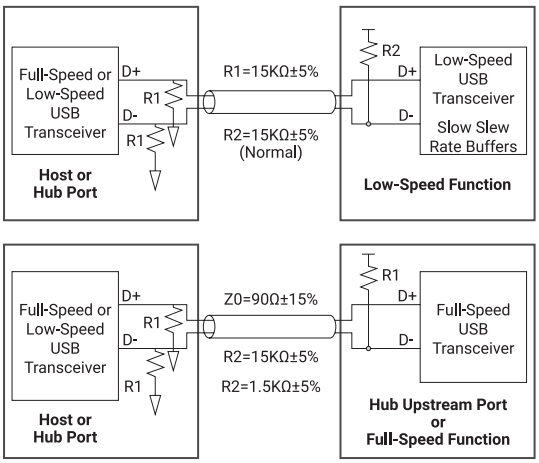
Communication	DEVICE CLASS CODE	INTERFACE CLASS CODE
Audio Interface	0 x 00	0 x 01
Communication Device	0 x 02	-
HID	0 x 00	0 x 00
HUB	0 x 09	0 x 09
Storage	0 x 00	0 x 08
Monitor	Same as HID	Same as HID
Print	-	0 x 07

*** 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 15KΩ.
③ A full speed USB Device has a pull-up resistor of 1.5KΩ hung on D+, Low speed devices on the other hand have a pull-up resistor of 1.5KΩ 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.

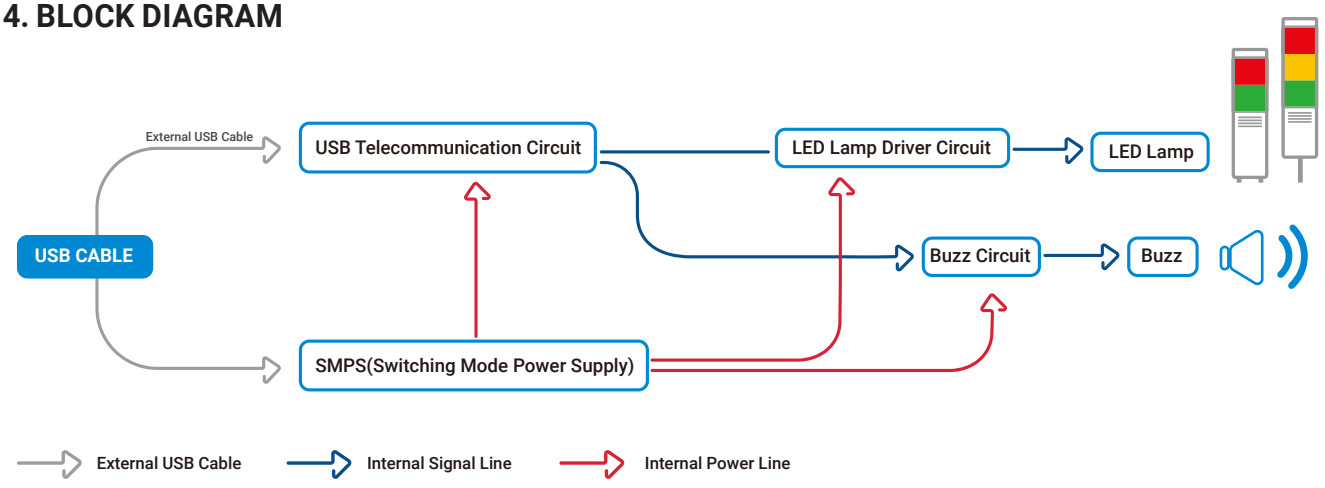
3.Communication data format of the USB product

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 : 0×4970/ USB1 : 0×4971/ USB2 : 0×4972/ usb3 : 0×4973 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

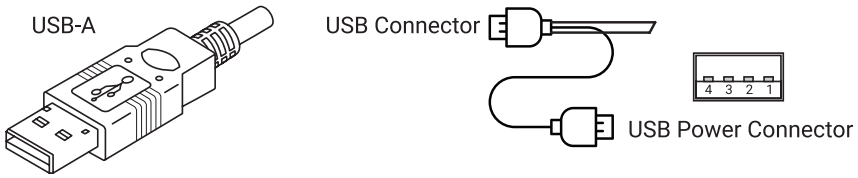


5. SPECIFICATION

Category	Specification	Category	Specification
Tower light	·Layers(Layer): 1-5 ·Voltage(Voltage): DC12V ·Current(Current): 0.300A ·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 DC 5V×2PORT (Built-in 5V To 12V converter)

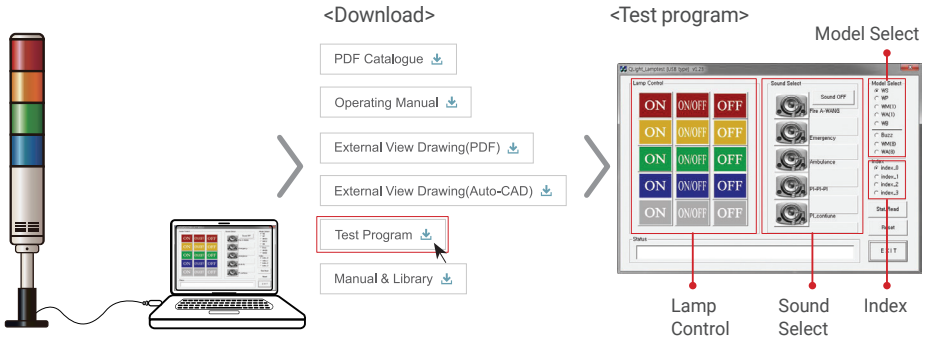
6. USB CABLE

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	QUvc_dll.dll
[Test program]	[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
Dimension (mm)	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	●	●	●	●	●	●
Sound & volume	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
Dimension (mm)	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	●	●	●	●	●	●
Sound & Volume	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	Ø70
	Height	204-364	432-592	199-399	435-635	199-399	357-557
	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	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	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	●	●	●	●	●	●
Sound & Volume	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		-	-	-	-	-	-
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

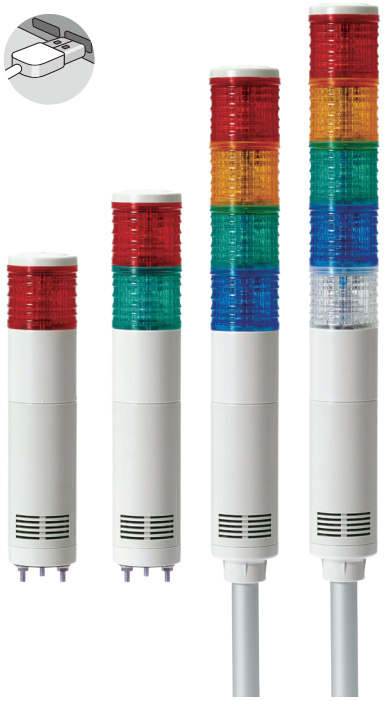
Specification List for USB LED Tower Lights

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

ST45(M)L-USB

IP23 | +50℃ -30℃ | BUZZER | 90dB | SPK | 85dB | RoHS

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

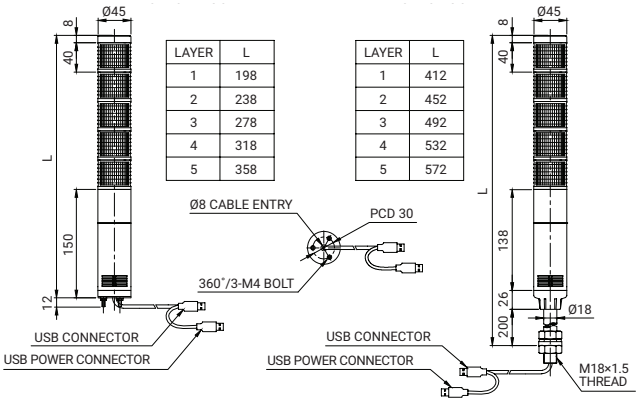
ST45L-USB Ø45mm Pole Mount USB LED Tower Light

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

·ST45ML-USB



LAYER	L
1	198
2	238
3	278
4	318
5	358

·ST45L-USB

LAYER	L
1	412
2	452
3	492
4	532
5	572

ST45ML-USB Ø45mm Direct Mount USB LED Tower Light

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

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

Customization

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

Wall mount bracket TWS45

Wall mount bracket TWA45

Ordering Specifications

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

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

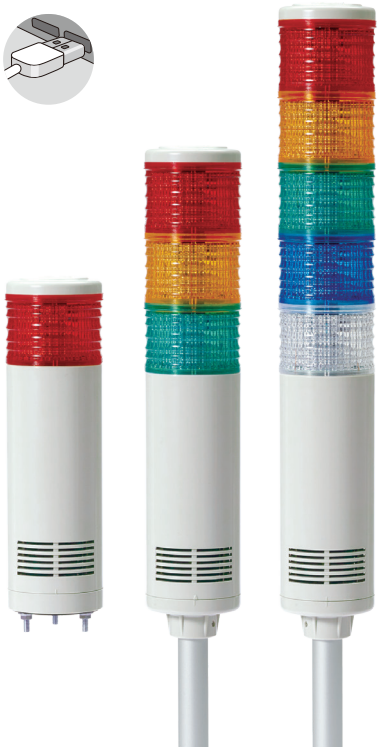
ST56(M)EL-USB

IP23 | +50℃ -30℃ | BUZZER | 90dB | SPK | 85dB | RoHS

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

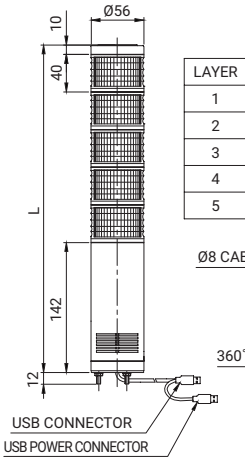


ST56(M)EL-USB Series

Technical Diagram

Units : mm

·ST56MEL-USB



LAYER	L
1	192
2	232
3	272
4	312
5	352

·ST56EL-USB

LAYER	L
1	406
2	446
3	486
4	526
5	566

ST56MEL-USB Ø56mm Direct Mount USB LED Tower Light

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

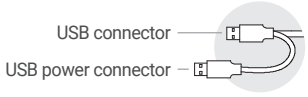
Mounting bracket

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

Wiring Instructions

· Connect both USB connector and USB power connector to PC



Ordering Specifications

ST56EL-USB-WS	-	3	-	RAG	-	QL18

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

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

Customization

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

Wall mount bracket TWS45

Wall mount bracket TWA45

ST80(M)EL-USB

IP23 | +50℃ -30℃ | BUZZER | 90dB | SPK | 85dB | RoHS

Connected to PC USB port without power supply unit

ST80(M)EL-USB Series

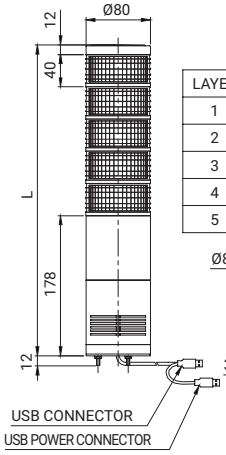
ST80EL-USB Ø80mm Pole Mount USB LED Tower Light

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

Technical Diagram

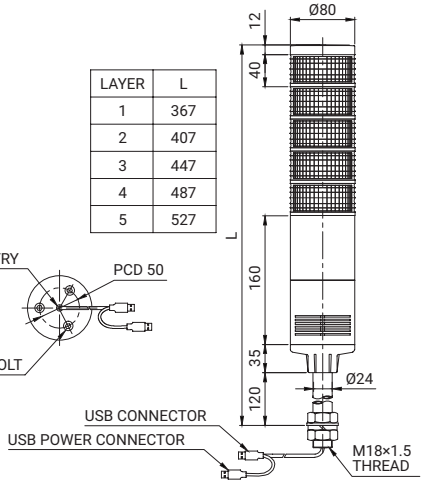
Units : mm

·ST80MEL-USB



LAYER	L
1	230
2	270
3	310
4	350
5	390

·ST80EL-USB



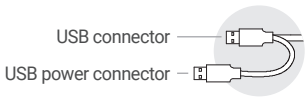
LAYER	L
1	367
2	407
3	447
4	487
5	527

ST80MEL-USB Ø80mm Direct Mount USB LED Tower Light

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

※ 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

Wall mount bracket TWS80

Wall mount bracket TWA80

Ordering Specifications

ST80EL-USB-WS	-	3	-	RAG	-	QL24

[Model number]
ST80EL-USB-BZ
ST80EL-USB-WS
ST80EL-USB-WM
ST80EL-USB-WA
ST80MEL-USB-BZ
ST80MEL-USB-WS
ST80MEL-USB-WM
ST80MEL-USB-WA

[Layers]
1-1 Layer
2-2 Layers
3-3 Layers
4-4 Layers
5-5 Layers

[Color]
R-Red
A-Amber
G-Green
B-Blue
W-White

[Bracket]
None-Standard Bracket
-LB24 -LW24
-QZ24 -SZ24
-QL24 -SL24

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

STDEL-USB

IP54 | +50°C -30°C | HORN | 105dB | RoHS

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

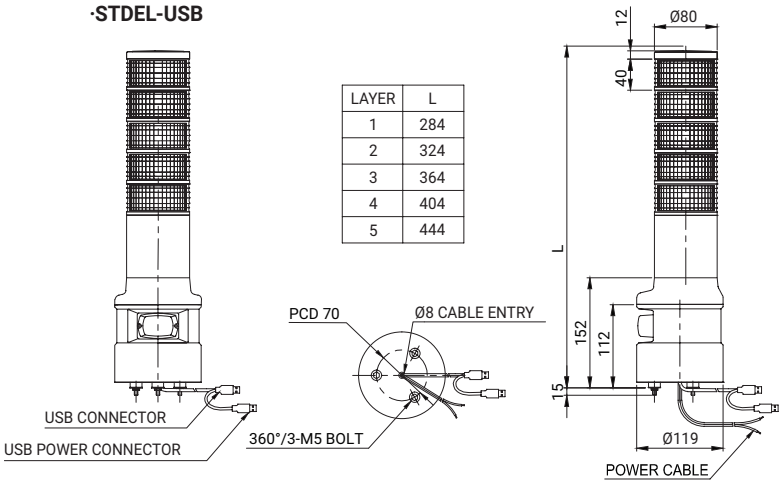
STDEL-USB Ø80mm USB Steady/ Flashing Tower Light & Electric Combination

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

Technical Diagram

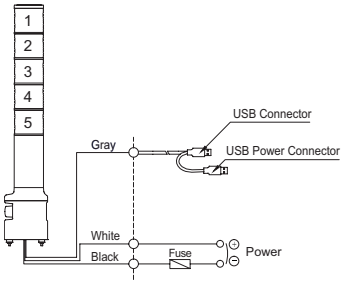
Units : mm

·STDEL-USB



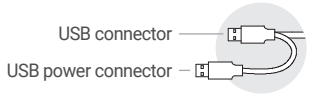
Wiring Instructions

·STDEL-USB



Wiring Instructions

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



Customization

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

Ordering Specifications

STDEL-USB-WS	-	3	-	24	-	RAG

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

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

QTG50(M)L-USB Series

PRODUCT SPECIFICATION

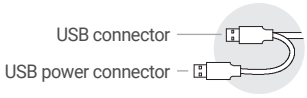
QTG50(M)L-USB
QTG60(M)L-USB
QTG70(M)L-USB

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 QTGA50(M)L-USB-BZ	5 Buzzer sounds	1 layer 2 layers 3 layers 4 layers 5 layers	CE	1 layer: R 2 layers: R G 3 layers: R A G 4 layers: R A G B 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 QTGA60(M)L-USB-BZ	5 Buzzer sounds	1 layer 2 layers 3 layers 4 layers 5 layers	CE	1 layer: R 2 layers: R G 3 layers: R A G 4 layers: R A G B 5 layers: R A G B W

Mounting bracket

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

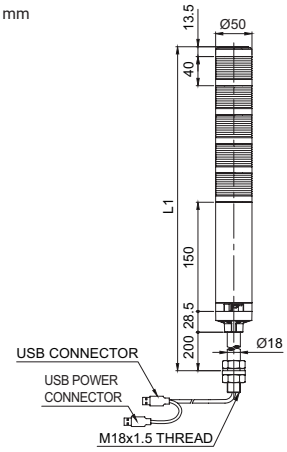
※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

IP54 | +50℃ -30℃ | BUZZER | 85dB | RoHS

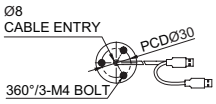
Technical Diagram

Units : mm

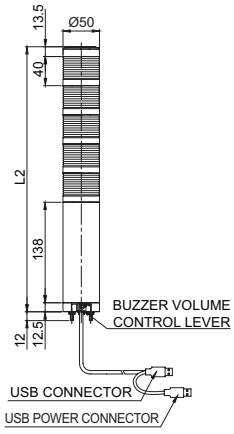
·QTG50L-USB-BZ



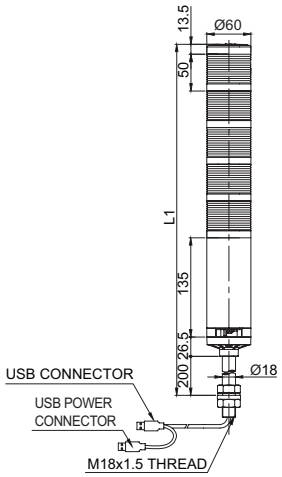
LAYER	L1	L2
1	432	204
2	472	244
3	512	284
4	552	324
5	592	364



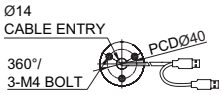
·QTG50ML-USB-BZ



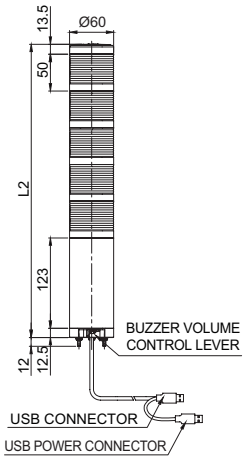
·QTG60L-USB-BZ

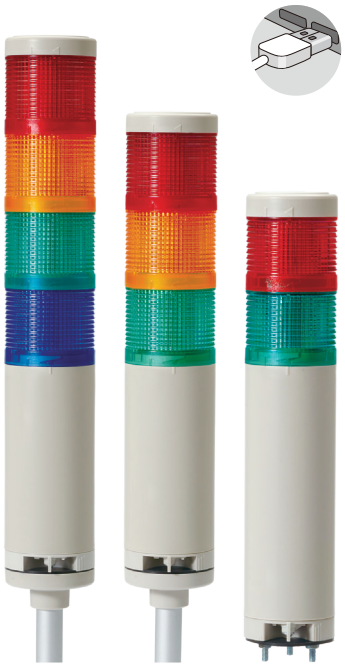


LAYER	L1	L2
1	435	199
2	485	249
3	535	299
4	585	349
5	635	399



·QTG60ML-USB-BZ





QTG60(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 Specifications

QTG50L-USB-BZ	-	3	-	RAG	-	LW18
[Model number]		[Layers]		[Color]		[Bracket]
QTG50L-USB-BZ QTG50ML-USB-BZ QTGA50L-USB-BZ QTGA50ML-USB-BZ		1-1 Layer 2-2 Layers 3-3 Layers 4-4 Layers 5-5 Layers		R-Red A-Amber G-Green B-Blue W-White		None-Standard Bracket -LB18 -LW18 -QZ18 -SZ18 -QL18 -SL18

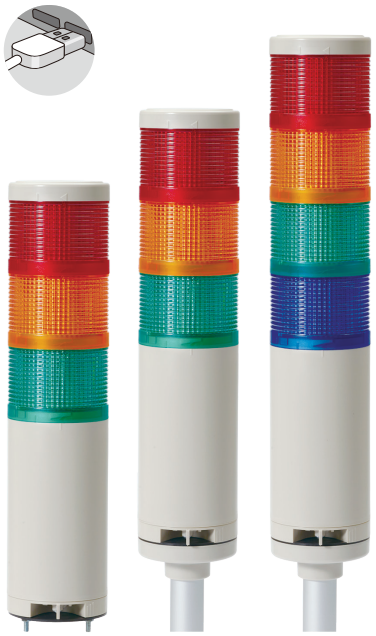
※ Mount brackets are available for the pole mount type(QTG50L-USB Series) only

QTG60L-USB-BZ	-	3	-	RAG	-	LW18
[Model number]		[Layers]		[Color]		[Bracket]
QTG60L-USB-BZ QTG60ML-USB-BZ QTGA60L-USB-BZ QTGA60ML-USB-BZ		1-1 Layer 2-2 Layers 3-3 Layers 4-4 Layers 5-5 Layers		R-Red A-Amber G-Green B-Blue W-White		None-Standard Bracket -LB18 -LW18 -QZ18 -SZ18 -QL18 -SL18

※ Mount brackets are available for the pole mount type(QTG60L-USB Series) only

QTG70(M)L-USB

IP54 | +50℃ -30℃ | BUZZER | 85dB | RoHS



QTG70(M)L-USB Series

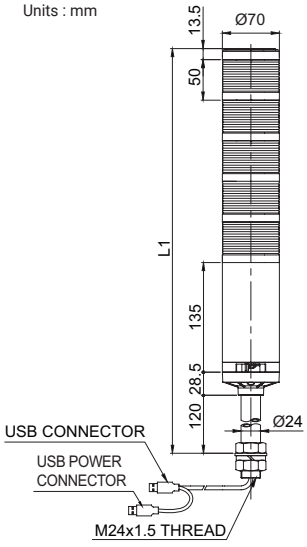
QTG70(M)L-USB Ø70mm USB Tower Light

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

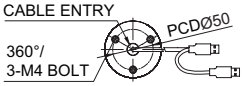
Technical Diagram

Units : mm

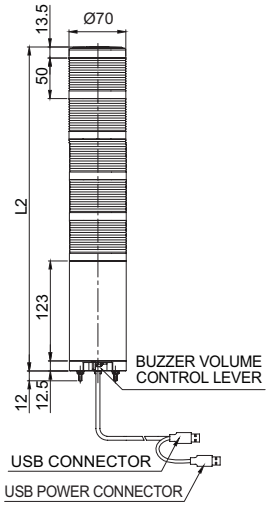
·QTG70L-USB-BZ



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

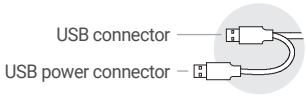


·QTG70ML-USB-BZ



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

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 Specifications

QTG70L-USB-BZ	-	3	-	RAG	-	LW24

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

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

QTC50(M)L-USB

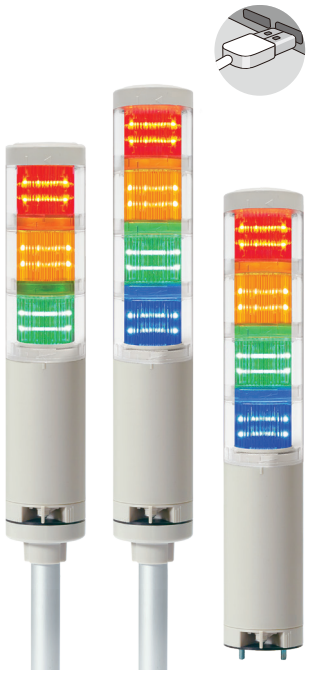
IP54 | +50℃ -30℃ | BUZZER | 85dB | RoHS

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

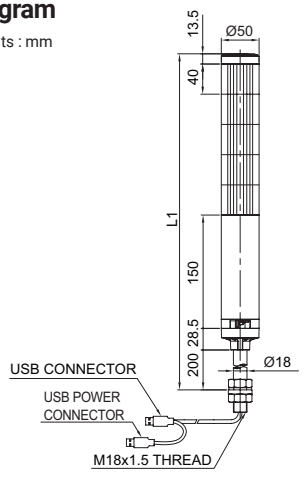
QTC50(M)L-USB Ø50mm USB Tower Light

Model number		Layers	Certificates	Color
QTC50(M)L-USB-BZ QTCA50(M)L-USB-BZ	5 Buzzer sounds	1 layer 2 layers 3 layers 4 layers 5 layers	CE	1 layer: R 2 layers: R G 3 layers: R A G 4 layers: R A G B 5 layers: R A G B W

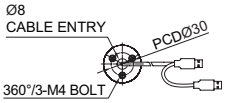
Technical Diagram

Units : mm

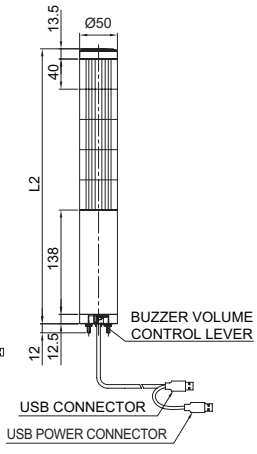
·QTC50L-USB-BZ



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



·QTC50ML-USB-BZ



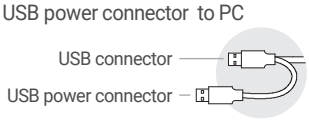
Ordering Specifications

QTC50L-USB-BZ	-	3	-	RAG	-	LW18
[Model number]		[Layers]		[Color]		[Bracket]
QTC50L-USB-BZ QTC50ML-USB-BZ QTCA50L-USB-BZ QTCA50ML-USB-BZ		1-1 Layer 2-2 Layers 3-3 Layers 4-4 Layers 5-5 Layers		R-Red A-Amber G-Green B-Blue W-White		None-Standard Bracket -LB18 -LW18 -QZ18 -SZ18 -QL18 -SL18

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

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	
			
Al	ABS	Al	

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

Customization

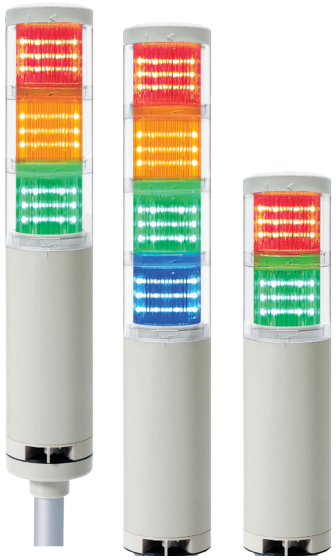
· Customized color arrangement available
· Customized pole length available
· Wall mount bracket

Wall mount bracket TWS45

Wall mount bracket TWA45

QTC60(M)L-USB

IP54 | +50℃ -30℃ | BUZZER | 85dB | RoHS



QTC60(M)L-USB Series

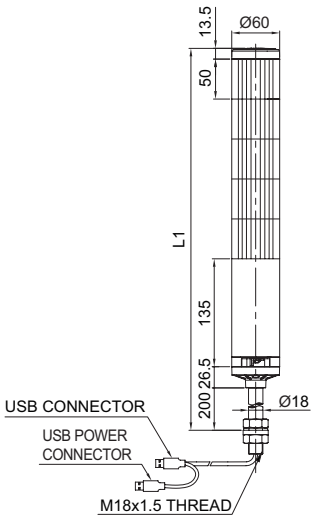
QTC60(M)L-USB Ø60mm USB Tower Light

Model number		Layers	Certificates	Color
QTC60(M)L-USB-BZ QTCA60(M)L-USB-BZ	5 Buzzer sounds	1 layer 2 layers 3 layers 4 layers 5 layers	CE	1 layer: R 2 layers: R G 3 layers: R A G 4 layers: R A G B 5 layers: R A G B W

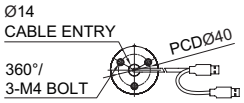
Technical Diagram

Units : mm

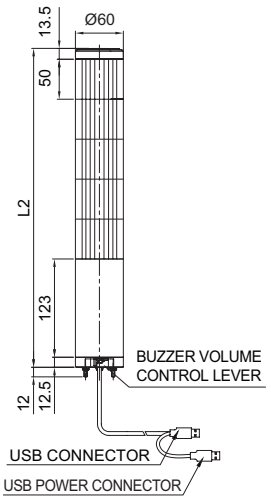
·QTC60L-USB-BZ



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

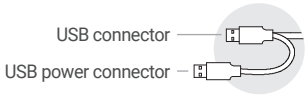


·QTC60ML-USB-BZ



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 Specifications

QTC60L-USB-BZ	-	3	-	RAG	-	LW18
[Model number]		[Layers]		[Color]		[Bracket]
QTC60L-USB-BZ QTC60ML-USB-BZ QTCA60L-USB-BZ QTCA60ML-USB-BZ		1-1 Layer 2-2 Layers 3-3 Layers 4-4 Layers 5-5 Layers		R-Red A-Amber G-Green B-Blue W-White		None-Standard Bracket -LB18 -LW18 -QZ18 -SZ18 -QL18 -SL18

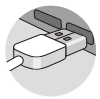
※ Mount brackets are available for the pole mount type(QTC60L-USB Series) only

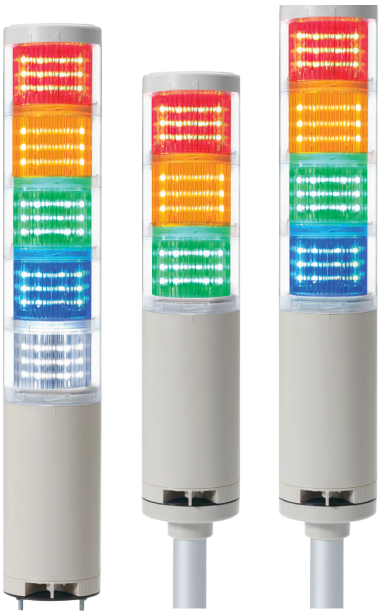
QTC70(M)L-USB

IP54 | +50℃ -30℃ | BUZZER | 85dB | RoHS

QTC70(M)L-USB Ø70mm USB Tower Light

Model number		Layers	Certificates	Color
QTC70(M)L-USB-BZ QTCA70(M)L-USB-BZ	5 Buzzer sounds	1 layer 2 layers 3 layers 4 layers 5 layers	CE	1 layer: R 2 layers: R G 3 layers: R A G 4 layers: R A G B 5 layers: R A G B W



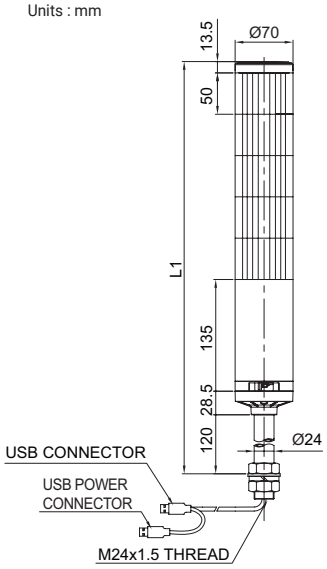


QTC70(M)L-USB Series

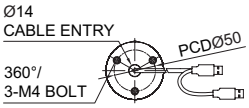
Technical Diagram

Units : mm

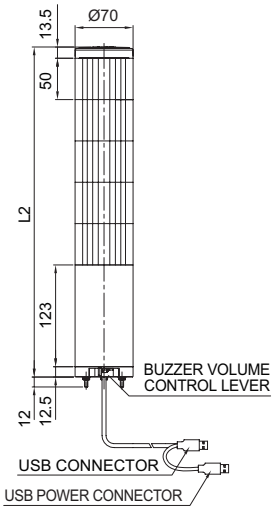
·QTC70L-USB-BZ



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



·QTC70ML-USB-BZ



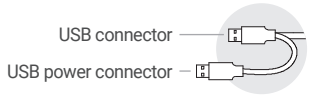
Mounting bracket

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

· Connect both USB connector and USB power connector to PC



Ordering Specifications

QTC70L-USB-BZ	-	3	-	RAG	-	LW24

[Model number]
- QTC70L-USB-BZ
- QTC70ML-USB-BZ
- QTCA70L-USB-BZ
- QTCA70ML-USB-BZ

[Layers]
- 1-1 Layer
- 2-2 Layers
- 3-3 Layers
- 4-4 Layers
- 5-5 Layers

[Color]
- R-Red
- A-Amber
- G-Green
- B-Blue
- W-White

[Bracket]
- None-Standard Bracket
- -LB24 -LW24
- -QZ24 -SZ24
- -QL24 -SL24

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

Customization

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

Wall mount bracket TWS80

Wall mount bracket TWA80

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

QTR50(M)L-USB Series

PRODUCT SPECIFICATION

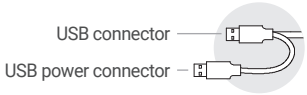
QTR50(M)L-USB
QTR60(M)L-USB
QTR70(M)L-USB

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 QTRA50(M)L-USB-BZ	5 Buzzer sounds	1 layer 2 layers 3 layers 4 layers 5 layers	CE	1 layer: R 2 layers: R G 3 layers: R A G 4 layers: R A G B 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 QTRA60(M)L-USB-BZ	5 Buzzer sounds	1 layer 2 layers 3 layers 4 layers 5 layers	CE	1 layer: R 2 layers: R G 3 layers: R A G 4 layers: R A G B 5 layers: R A G B W

Mounting bracket

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

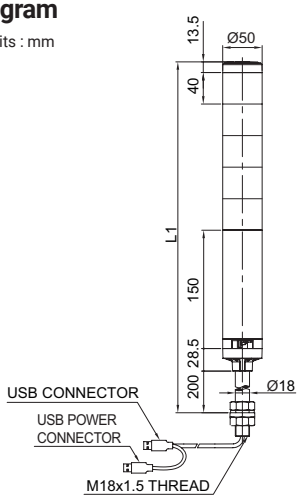
※ Please refer to [Tower Light Mounting bracket] on this catalogue for detailed dimensions

IP54 | +50℃ -30℃ | BUZZER | 85dB | RoHS

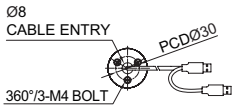
Technical Diagram

Units : mm

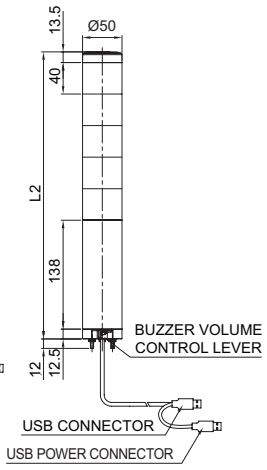
·QTR50L-USB-BZ



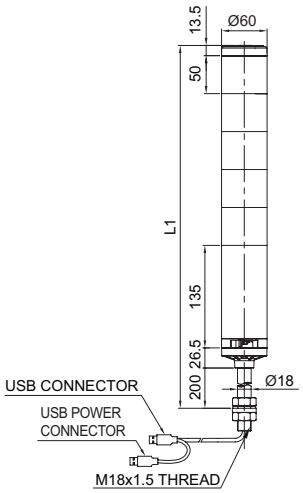
LAYER	L1	L2
1	432	204
2	472	244
3	512	284
4	552	324
5	592	364



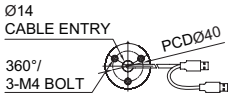
·QTR50ML-USB-BZ



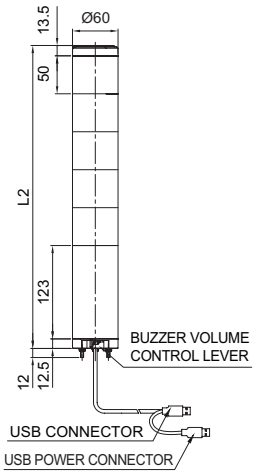
·QTR60L-USB-BZ



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 Specifications

QTR50L-USB-BZ	-	3	-	RAG	-	LW18
[Model number]		[Layers]		[Color]		[Bracket]
QTR50L-USB-BZ QTR50ML-USB-BZ QTRA50L-USB-BZ QTRA50ML-USB-BZ		1-1 Layer 2-2 Layers 3-3 Layers 4-4 Layers 5-5 Layers		R-Red A-Amber G-Green B-Blue W-White		None-Standard Bracket -LB18 -LW18 -QZ18 -SZ18 -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 QTR60ML-USB-BZ QTRA60L-USB-BZ QTRA60ML-USB-BZ		1-1 Layer 2-2 Layers 3-3 Layers 4-4 Layers 5-5 Layers		R-Red A-Amber G-Green B-Blue W-White		None-Standard Bracket -LB18 -LW18 -QZ18 -SZ18 -QL18 -SL18

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

QTR70(M)L-USB

IP54 | +50℃ -30℃ | BUZZER | 85dB | RoHS

QTR70(M)L-USB Series

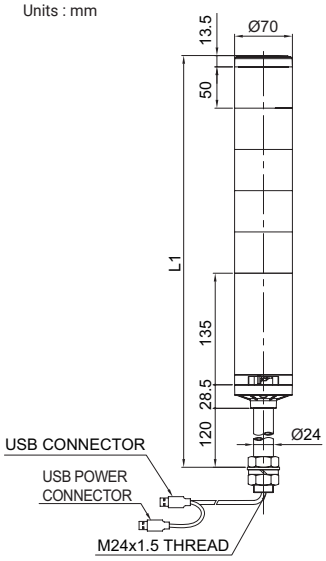
QTR70(M)L-USB Ø70mm USB Tower Light, Pole mount

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

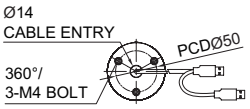
Technical Diagram

Units : mm

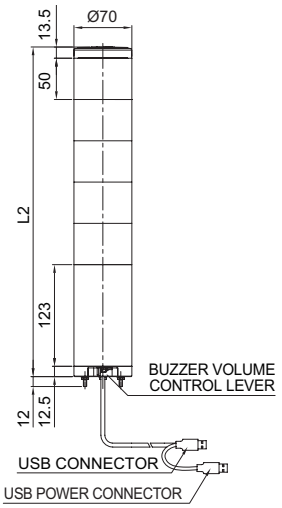
·QTR70L-USB-BZ



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

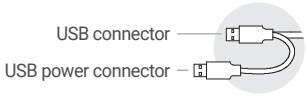


·QTR70ML-USB-BZ



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 Specifications

QTR70L-USB-BZ	-	3	-	RAG	-	LW24

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

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

Technical Data of Ethernet LED Tower Light

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

Technical Data of Ethernet LED Tower Light

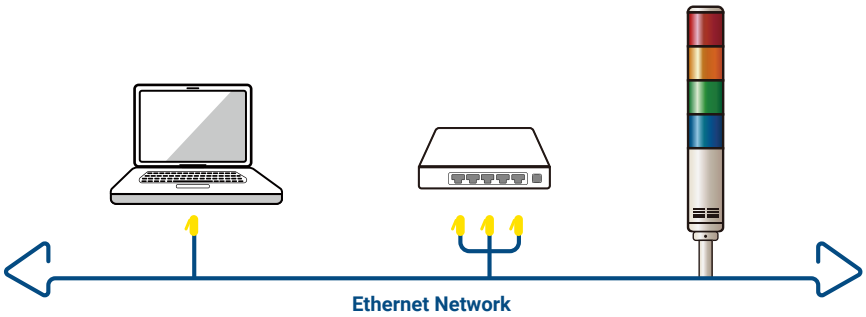
1. What is Ethernet?

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
1st		2nd		3rd		4th

No	Description	Command
1st	1st 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
2nd	2nd address, Being Network ID or Host ID depending on 1st Address	
3rd	3rd address, Being Network ID or Host ID depending on 1st Address	
4th	4th address, Being Network ID or Host ID depending on 1st1st Address	

IP ADDRESS ASSIGNMENT BY CLASS

GROUP	1st address	2nd address	3rd address	4th 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?

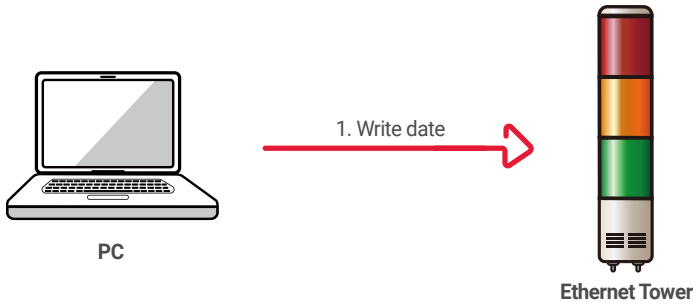
A port (noun) is a "logical connection place" and specifically, using the Internet's protocol and TCP/IP, the way a client's program specifies a particular server program on a computer in a network. Higher-level applications that use TCP/IP such as the Web protocol, Hypertext Transfer Protocol, have 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?

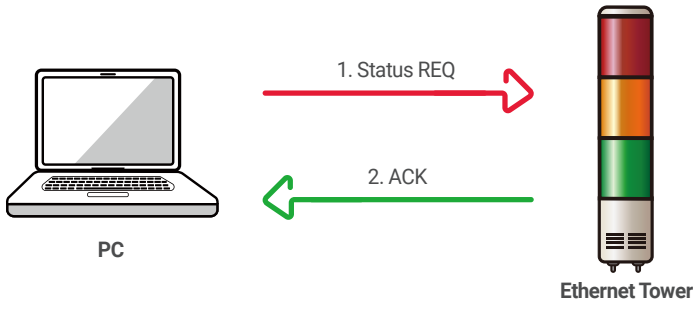
It is to implement a program to send and receive data between host PCs that are apart from each other in network programming. However, the connection between host PCs is far away so a device is that has a feature of connecting the two at a software level is required, and that device is the socket. Generally, 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.



1. WRITE to DEVICE

1.Write Data: A command sent when turning on/off each lamp
2.The command is sent from PC to ETN device



2. READ from DEVICE

1.Status REQ: A requesting command for turning on/off each lamp
2.The command is sent from PC to ETN device
3.When the ETN device receives a REQ Command it sends the setting status of each lamps using ACK.

7. Applying the Ethernet Device

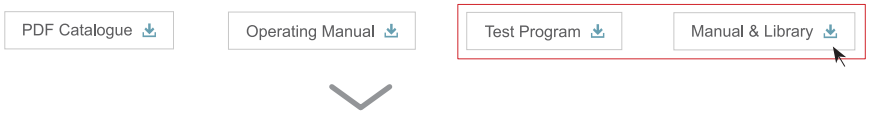
1. Proceed to check the current network and the assigned IP address of your PC.
   Start(run) -> CMD – ipconfig/all

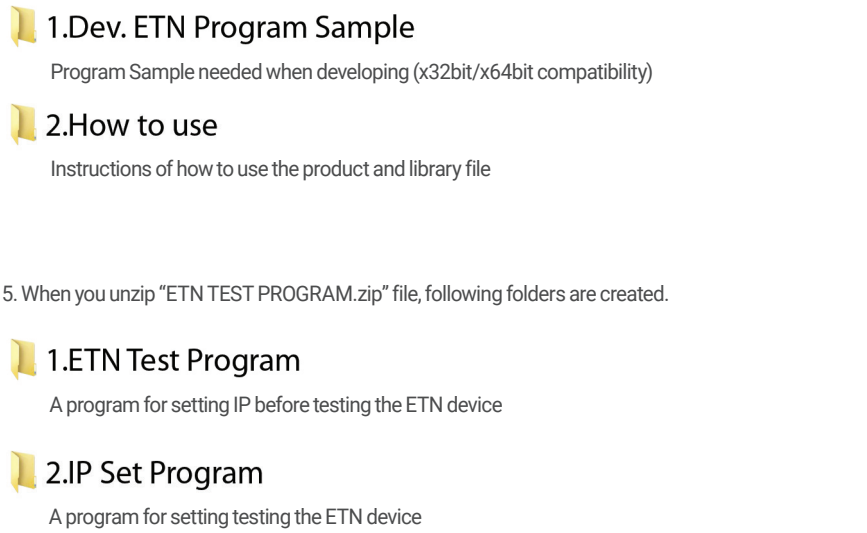
```
Ethernet adapter Local Area Connection:

        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]





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

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.)

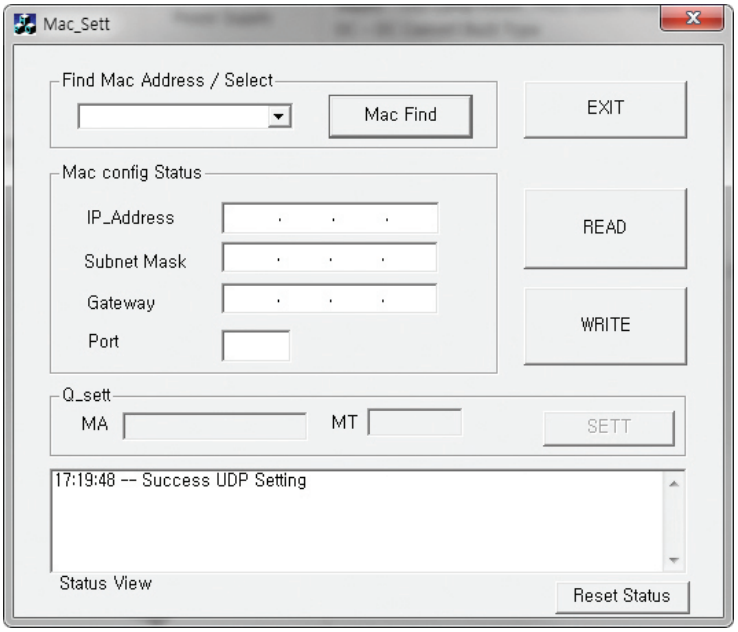
· Select the Mac Addr of the device you want to change, and then click on the “eRad” button.

· 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

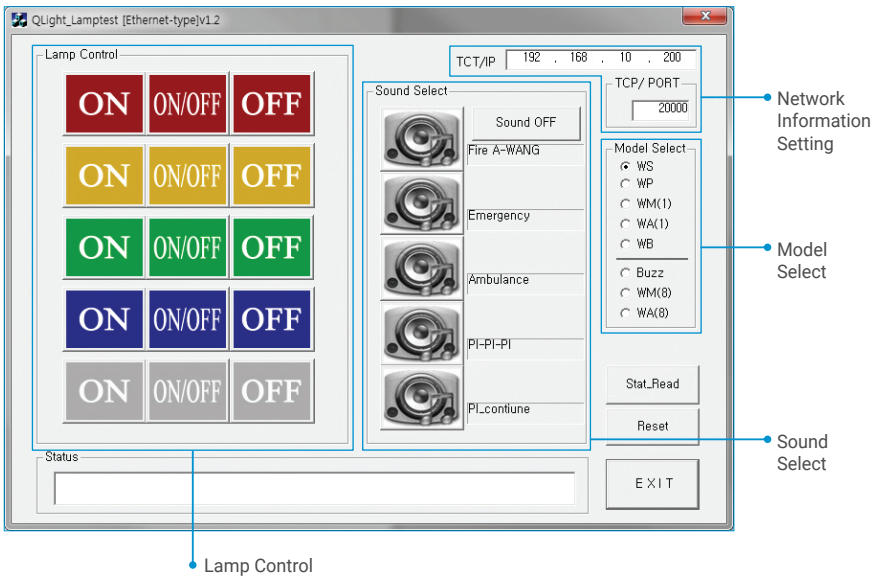
QLight_Lamptest_TCP.exe

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	Ø80
	Height	244-404	458-618	257-517	471-631	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	●	●	●	●	●	●
Sound & Volume	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, 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	Ø70
	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)	199-399(ML) 357-557(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	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
Voltage		DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V	DC12V, DC24V AC110V-220V
Dimension (mm)	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

ST45(M)L-ETN

IP23 | +50℃ -30℃ | BUZZER | 90dB | SPK | 85dB

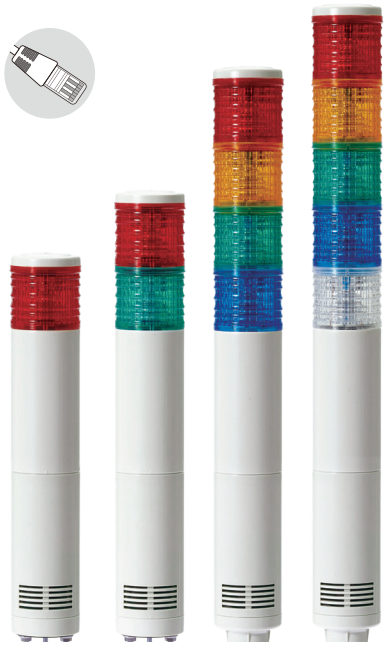
Remote control through internet or local area network

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 Ø45mmEthernet 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 Specifications

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

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

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(-).

ST56(M)EL-ETN

IP23 | +50℃ -30℃ | BUZZER | 90dB | SPK | 85dB

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)

Wall mount bracket TWS45

Wall mount bracket TWA45

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

Ordering Specifications

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

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

ST80(M)EL-ETN

IP23 | +50℃ -30℃ | BUZZER | 90dB | SPK | 85dB

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 Specifications

ST80EL-ETN-WS - 3 - 24 - RAG - QZ24

[Model number]
ST80EL-ETN-BZ
ST80EL-ETN-WS
ST80EL-ETN-WM
ST80EL-ETN-WA
ST80MEL-ETN-BZ
ST80MEL-ETN-WS
ST80MEL-ETN-WM
ST80MEL-ETN-WA

[Layers]
1-1 Layer
2-2 Layers
3-3 Layers
4-4 Layers
5-5 Layers

[Voltage]
12-DC12V
24-DC24V
110/220-AC110V-220V

[Color]
R-Red
A-Amber
G-Green
B-Blue
W-White

[Bracket]
None-Standard Bracket
-LB24 -LW24
-QZ24 -SZ24
-QL24 -SL24

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

Mounting bracket

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

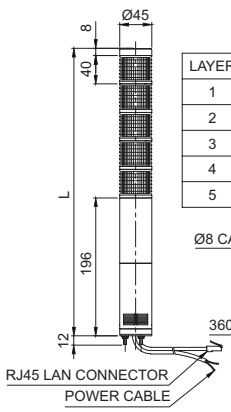
※ Please refer to [Tower Light Mounting Bracket] on this catalogue for detailed dimensions

ST-ETN Series

Technical Diagram

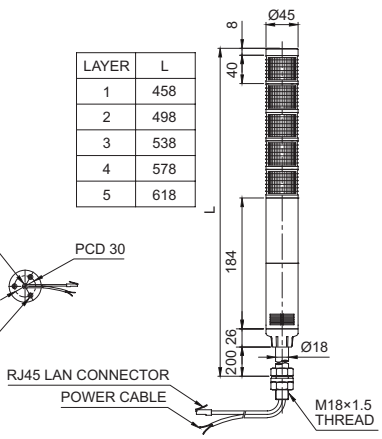
Units : mm

·ST45ML-ETN



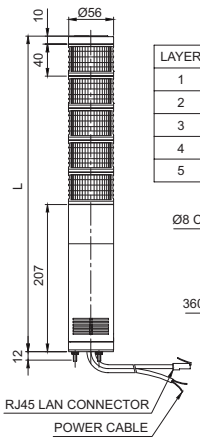
LAYER	L
1	244
2	284
3	324
4	364
5	404

·ST45L-ETN

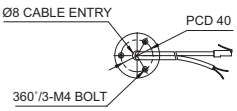


LAYER	L
1	458
2	498
3	538
4	578
5	618

·ST56MEL-ETN



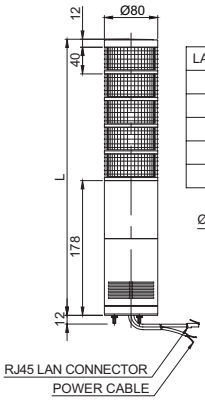
LAYER	L
1	257
2	322
3	387
4	452
5	517



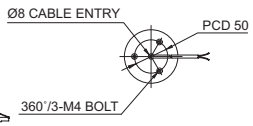
·ST56EL-ETN

LAYER	L
1	471
2	511
3	551
4	591
5	631

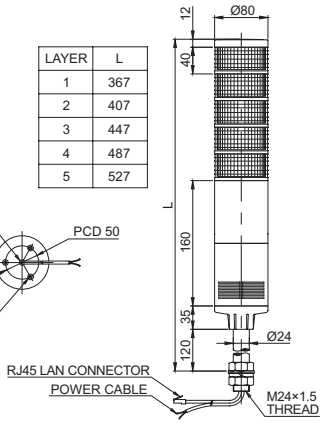
·ST80MEL-ETN



LAYER	L
1	230
2	270
3	310
4	350
5	390



·ST80EL-ETN



LAYER	L
1	367
2	407
3	447
4	487
5	527

QTG50(M)L-ETN

IP54 | +50°C -30°C | BUZZER | 85dB | RoHS

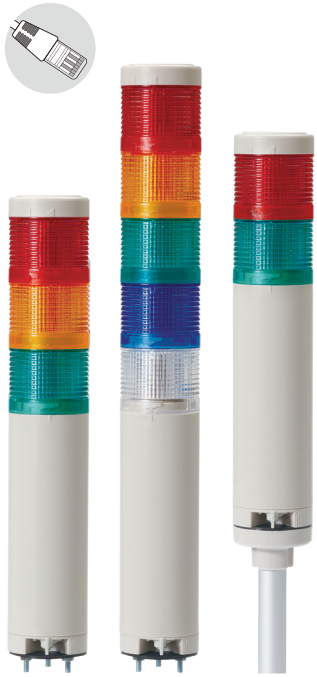
Remote control through internet or local area network

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 lamp 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 Series

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 sound)	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

Customization

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

Wall mount bracket TWS45

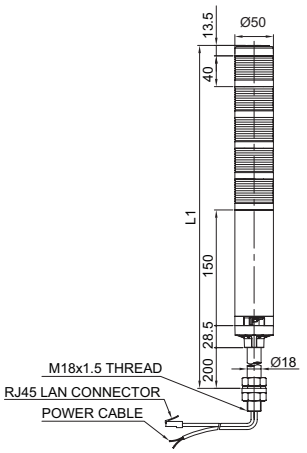
Wall mount bracket TWA45

QTG50(M)L-ETN

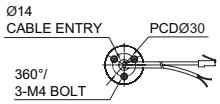
Technical Diagram

Units : mm

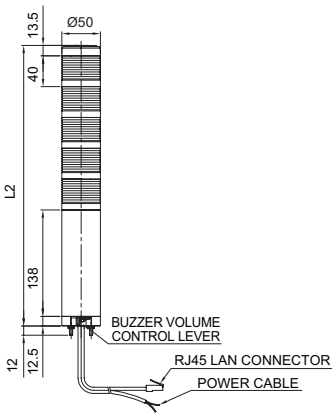
·QTG50L-ETN-BZ



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



·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 Specifications

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

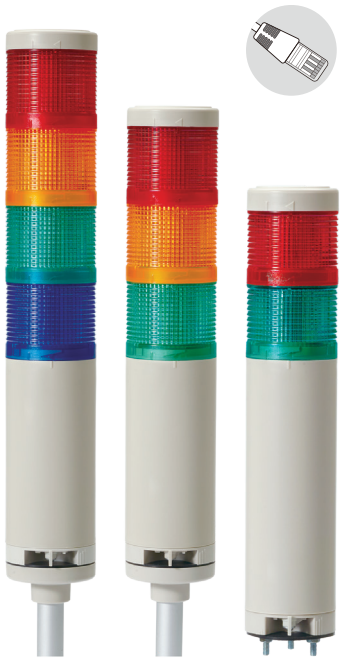
QTG60(M)L-ETN

IP54 | +50℃ -30℃ | BUZZER | 85dB | RoHS

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 sound)	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

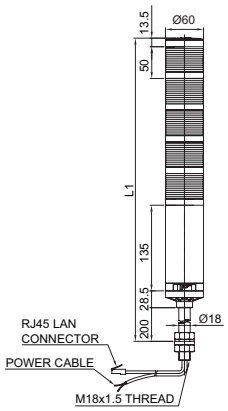
Light source/buzzer current(based on 1 layer)

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

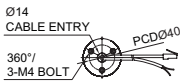
Technical Diagram

Units : mm

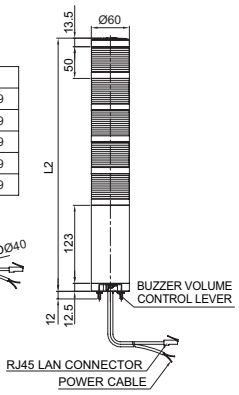
·QTG60L-ETN-BZ



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



·QTG60ML-ETN-BZ



Wiring Instructions

- 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

Wiring Instructions

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

Wall mount bracket TWS45

Wall mount bracket TWA45

Ordering Specifications

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

Mounting bracket

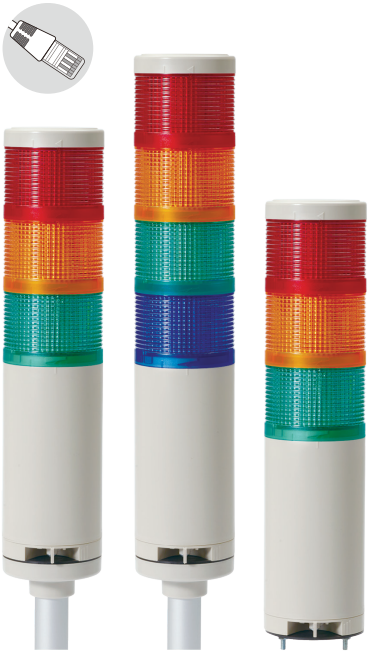
Standard	LB18	LW18	QZ18
			
Steel	Steel	ABS	ABS
SZ18	QL18	SL18	
			
Al	ABS	Al	

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

QTG70(M)L-ETN

IP54 | +50℃ -30℃ | BUZZER | 85dB | RoHS

Remote control through internet or local area network



QTG70(M)L-ETN Series

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

Customization

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

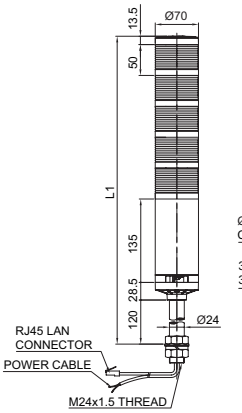
Wall mount bracket TWS80

Wall mount bracket TWA80

Technical Diagram

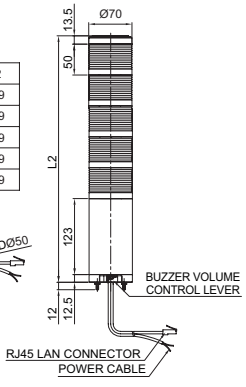
Units : mm

·QTG70L-ETN-BZ



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

·QTG70ML-ETN-BZ



Mounting bracket

Standard	LB24	LW24	QZ24
			
Steel	Steel	ABS	ABS
SZ24	QL24	SL24	
			
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

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

QTC50(M)L-ETN

IP54 | +50°C -30°C | BUZZER | 85dB | RoHS

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 lamp 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)

QTC50(M)L-ETN Series

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

Model number	Layers	Voltage	Certificates	Color
QTC50(M)L-ETN-BZ QTCA50(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
					
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

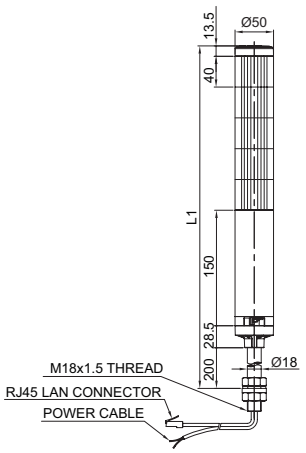
Wall mount bracket TWA45

QTC50(M)L-ETN

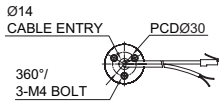
Technical Diagram

Units : mm

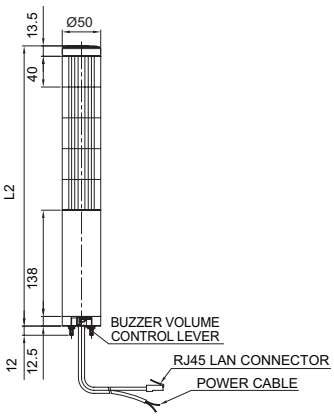
·QTC50L-ETN-BZ



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 Specifications

QTC50L-ETN-BZ	-	3	-	24	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTC50L-ETN-BZ QTC50ML-ETN-BZ QTCA50L-ETN-BZ QTCA50ML-ETN-BZ		1-1 Layer 2-2 Layers 3-3 Layers 4-4 Layers 5-5 Layers		12-DC12V 24-DC24V 110/220-AC110V-220V		R-Red A-Amber G-Green B-Blue W-White		None-Standard Bracket -LB18 -LW18 -QZ18 -SZ18 -QL18 -SL18

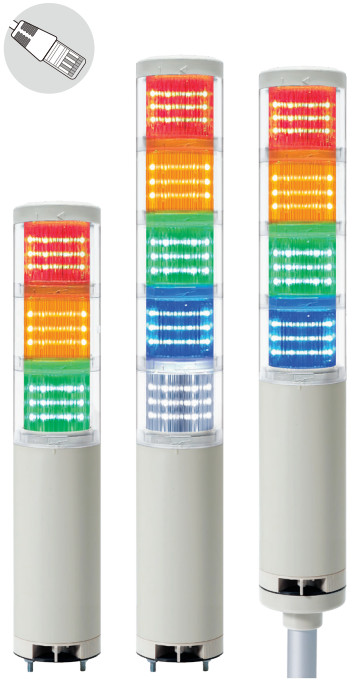
QTC60(M)L-ETN

IP54 | +50℃ -30℃ | BUZZER | 85dB | RoHS

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 QTCA60(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

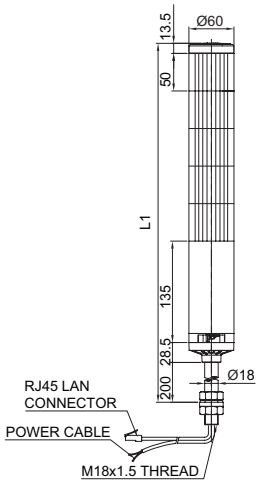
Light source/buzzer current(based on 1 layer)

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

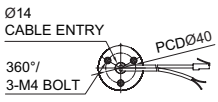
Technical Diagram

Units : mm

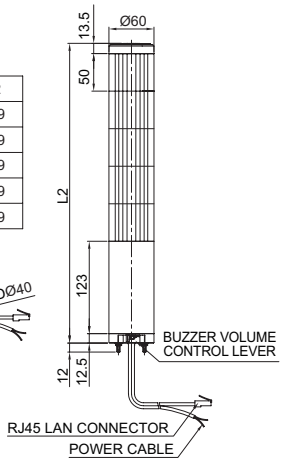
·QTC60L-ETN-BZ



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



·QTC60ML-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 Specifications

QTC60L-ETN-BZ	-	3	-	24	-	RAG	-	LW18
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTC60L-ETN-BZ QTC60ML-ETN-BZ QTCA60L-ETN-BZ QTCA60ML-ETN-BZ		1-1 Layer 2-2 Layers 3-3 Layers 4-4 Layers 5-5 Layers		12-DC12V 24-DC24V 110/220-AC110V-220V		R-Red A-Amber G-Green B-Blue W-White		None-Standard Bracket -LB18 -LW18 -QZ18 -SZ18 -QL18 -SL18

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

Customization

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

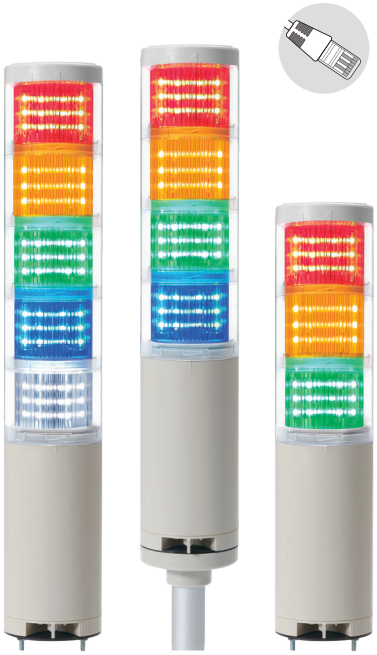
Wall mount bracket TWS45

Wall mount bracket TWA45

QTC70(M)L-ETN

IP54 | +50℃ -30℃ | BUZZER | 85dB | RoHS

Remote control through internet or local area network



QTC70(M)L-ETN Series

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

Model number	Layers	Voltage	Certificates	Color
QTC70(M)L-ETN-BZ QTCA70(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

Mounting bracket

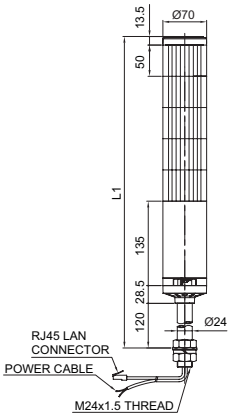
Standard	LB24	LW24	QZ24
			
Steel	Steel	ABS	ABS
SZ24	QL24	SL24	
			
Al	ABS	Al	

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

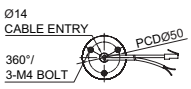
Technical Diagram

Units : mm

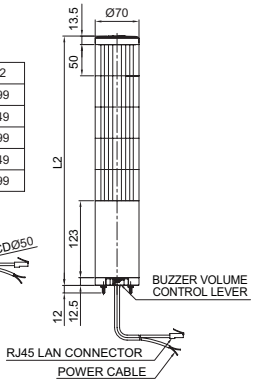
·QTC70L-ETN-BZ



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



·QTC70ML-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

Customization

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

Wall mount bracket TWS80

Wall mount bracket TWA80

Ordering Specifications

QTC70L-ETN-BZ	-	3	-	24	-	RAG	-	LW24
[Model number]		[Layers]		[Voltage]		[Color]		[Bracket]
QTC70L-ETN-BZ QTC70ML-ETN-BZ QTCA70L-ETN-BZ QTCA70ML-ETN-BZ		1-1 Layer 2-2 Layers 3-3 Layers 4-4 Layers 5-5 Layers		12-DC12V 24-DC24V 110/220-AC110V-220V		R-Red A-Amber G-Green B-Blue W-White		None-Standard Bracket -LB24 -LW24 -QZ24 -SZ24 -QL24 -SL24

QTR50(M)L-ETN

IP54 | +50℃ -30℃ | BUZZER | 85dB | RoHS

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 lamp 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

※ 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

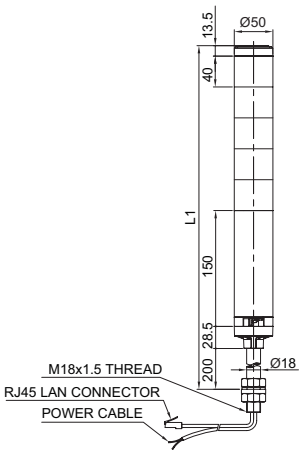
Wall mount bracket TWA45

QTR50(M)L-ETN

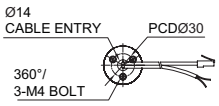
Technical Diagram

Units : mm

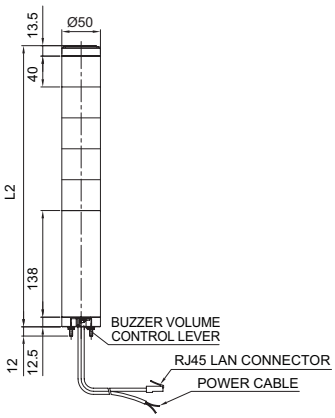
·QTR50L-ETN-BZ



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 Specifications

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

QTR60(M)L-ETN

IP54 | +50℃ -30℃ | BUZZER | 85dB | RoHS

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

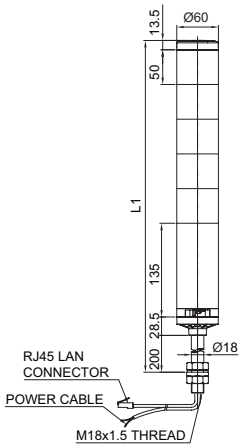
Light source/buzzer current(based on 1 layer)

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

Technical Diagram

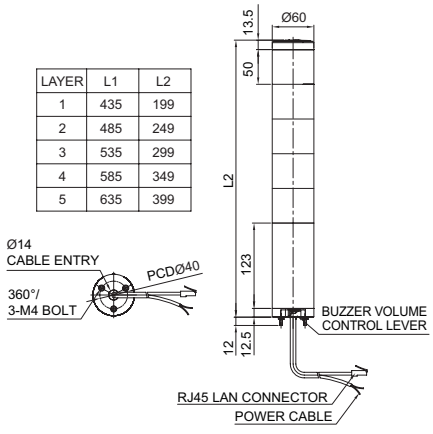
Units : mm

·QTR60L-ETN-BZ



·QTR60ML-ETN-BZ

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



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

QTR60L-ETN-BZ	-	3	-	24	-	RAG	-	LW18

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

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

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

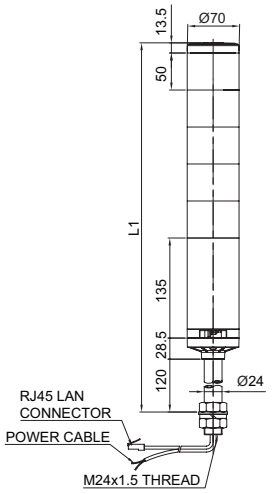
Light source/buzzer current(based on 1 layer)

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

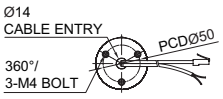
Technical Diagram

Units : mm

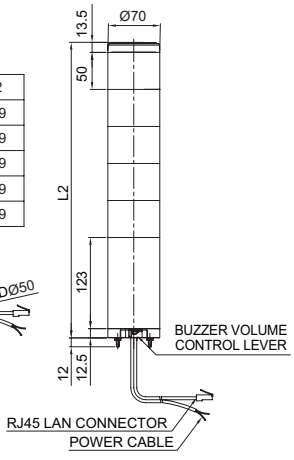
·QTR70L-ETN-BZ



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



·QTR70ML-ETN-BZ



Customization

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

Wall mount bracket TWS80

Wall mount bracket TWA80

IP54 | +50°C -30°C | BUZZER | 85dB | RoHS

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

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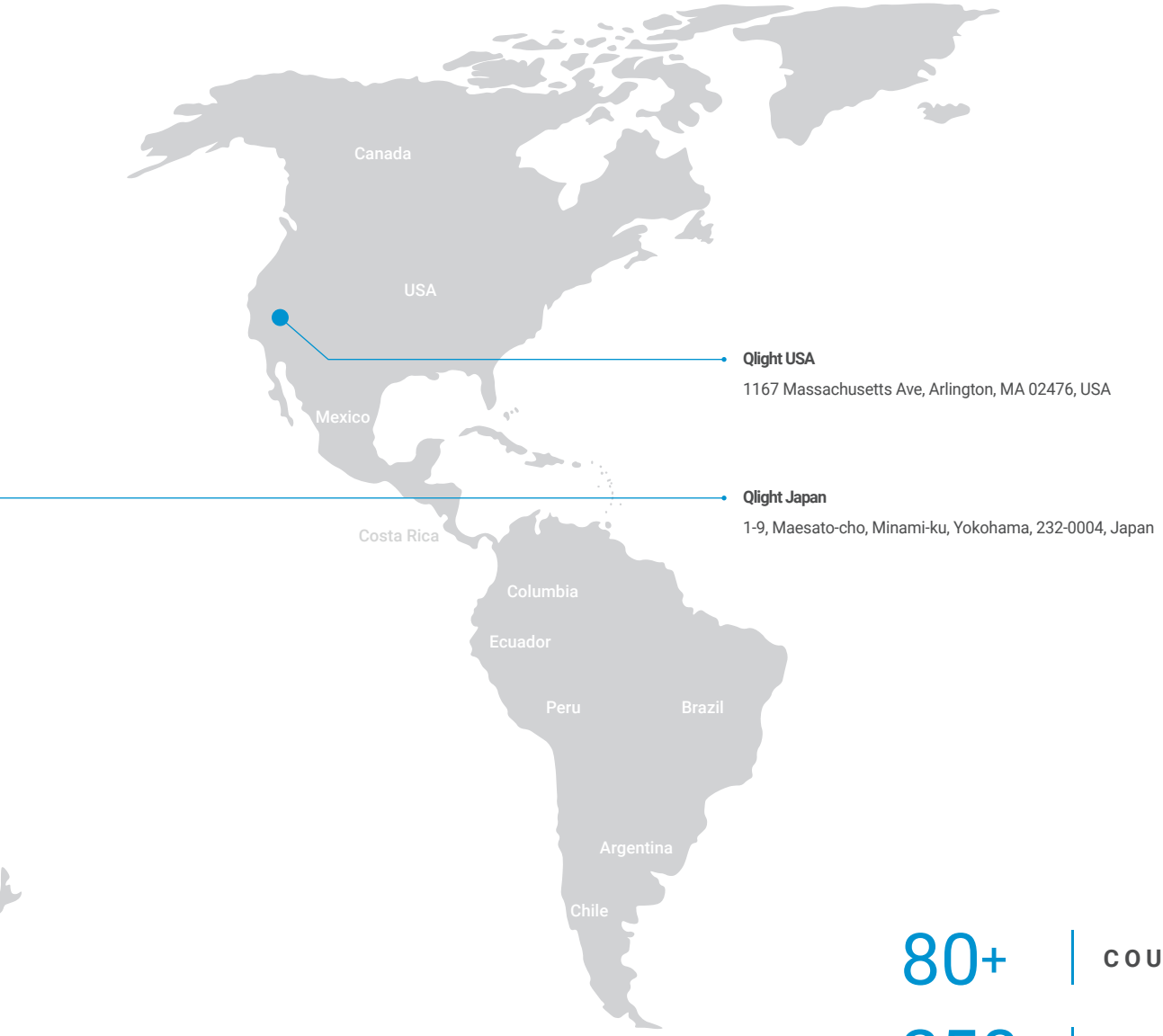
Qidong, Jiangsu Province, China

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	SAMSUNG HEAVY INDUSTRIES	HYUNDAI CONSTRUCTION EQUIPMENT
DOOSAN	ExxonMobil	gm	BMW	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.



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80+ | **COUNTRIES**

250+ | **DISTRIBUTORS**

Gimhae Production Headquarters | Seoul Global 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 or Manufacture, Installation and Use of Equipment in Explosive Atmospheres

NEPSI
National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation

NRTL
Certified by designated U.S. laboratory

KCs
Explosion proof device safety Certification System

TIIS
Japan Explosion-proof Certification

CCS
China Classification Society

TS
Taiwan Explosion Proof Certification

FCC
Federal Communications Communications

S-mark
safety certification

KC
Korea Safety Certification

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

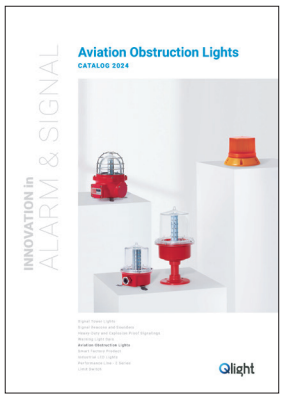
Qlight produces a wide variety of product categories which offers the customer the ability to select the suitable device for their application needs and environments. There are signal tower lights, Signal Beacons and Sounders, Heavy-Duty and Explosion Proof Signalings, Warning light bars, Aviation Obstruction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

Signal Tower Lights

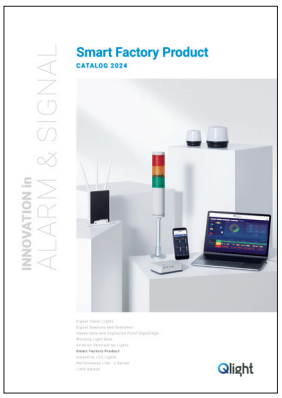
Signal Beacons and Sounders

Heavy-Duty and Explosion Proof Signalings

Warning Light Bars

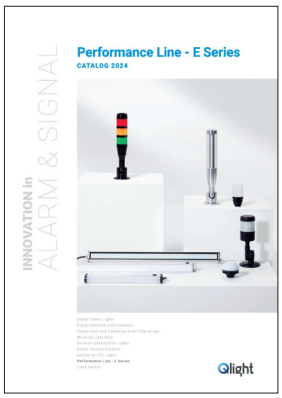


Aviation Obstruction Lights



Smart Factory Product

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.

www.qlight.com

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EN - Smart Factory Product Catalog - 2503