Innovation in Alarm & Signal

Wireless Network System

Mobile Wireless
Network System

PC
Wireless Network System

Qlight

Qlight Gives You a Brighter Future!

As equipment and industrial processes become more automated and diversified, the demand for a diverse portfolio of products and focused expertise in the field of signaling devices has grown dramatically. Since its founding in 1986, Qlight has developed into a dominant force in the industry and is recognized as the leading specialist in signaling devices. We have built a flexible production system capable of building a variety of products to fit the expansive application needs of our growing customer base. With the introduction of LED light sources in our products in 1993, more than 450 of our products have been used in various industries and applications such as semiconductors, automotive, unmanned automation equipment, iron/steel, shipbuilding, marine plants, and petrochemical plants. In recent years, we have innovated further by developing products such as our specially controlled (USB, Ethernet, wireless) multifunctional tower lights and multichannel electric signal horns with MP3 input which provide our customers with smart solutions to complex signal transmission systems. In addition, through our rigorous attention to detail and implementation of robust inspection systems we pride ourselves in providing products with superior technology and quality. We currently have certification in 22 organizations such as IECEx, ATEX, NEPSI, CCS, CE, UL and continue to expand our certifications in accordance to industry needs.

Qlight is differentiated by focusing on a diverse product portfolio and quick delivery times. We employ an enterprise resource planning (ERP) system, a high-efficiency supply chain management (SCM) system, a cell based production system, and a flexible customer-centric production management system to meet the needs of our customers. Our established local corporations in China and South Korea, sales branches in Japan and the United States, and a global service network provides a distribution and sales system servicing over 40 countries. Through the organic collaboration between our production and distribution centers, we offer services that are appropriate to the situation of each country, industrial environment, and market.Qlight strives to continue our efforts as an industry leading company by developing new technologies that can contribute to improving industrial efficiency through improved customer relationships.

Qlight Global Networks

Country	Company name	Address	Phone
Korea	Qlight Co., Ltd.	185-25, Mukbang-Ro, Sangdong-Myeon, Gimhae-si, Gyeongsangnamdo, Korea	+82-55-328-4082
USA	Qlight USA, Inc.	#341, 3003 North First St., San Jose, CA 95134 USA	+1-408-519-5740
China	SHANGHAI Qlight Electronics Co., Ltd.	#19, Nanda Road, Baoshan Area, Shanghai, China	+86-21-6651-7100

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

HYUNDAI HEAVY INDUSTRIES CO., LTD. | POSCO | DSME | SAMSUNG HEAVY INDUSTRIES | Doosan Infracore | HYUNDAI WIA

SK hynix | Hanwha | HYUNDAI | SAMSUNG ELECTRONICS | Korea Expressway Corporation | LG Electronics

BOEING | BROMMA | CAT | | Danfoss | PSA

Company History

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.

1986~1992	1993~2005	2006~2010	2011 to Present	~ Future
Business foundation and consolidation	Growing as a signal transmission device specialist	A great leap forward & business reconstruction	New engines for growth	The 2nd growth and globalization

Year	Month	Event
2017	03	Launched Wireless Network System(QTG60L-WIZ, QTG60ML-WIZ, QTG70L-WIZ, QTG70ML-WIZ, QMCL100-WIZ, QMCL125-WIZ)
	02	Aviation Obstruction Light(SAOL1) acquired certificate from ICAO(International Civil Aviation Organization)
2016	11	Multifunctional modular signal tower lights patented (Patent # : 10-1676863)
	09	QMFL300-Ex LED Work Light Acquired KGC Safety Certificate
	07	Acquired ICAO (International Civil Aviation Organization) certificate for low intensity LED aviation obstruction lights (SAOL2)
	02	Qlight's New Innovative UL-Listed QMPS Series Smart Electric Horn Now available Obtained UL certificate for LED signal lights Q series Obtained the patent for "Bar style LED work lights" (Patent # : 10-1598123)
2015	12	The second headquarter factory built
	06	Limit switch models (3 items including SW2TS) acquired certificates from RMRS
	03	LED Work lights (QML150/250, QMFL 500/600) UL listed
2014	10	Established the Qlight USA, Inc. in San Jose, CA. Horn which that emits light patented (Patent # : 10-1452447)
	09	LED strobe light with multi-lens patented (Patent # : 10-1444391)
	08	Explosion Proof product family including SNE, SNES, SESA, SEA, SPNA acquired IECEx certificates
	01	Non-Sparking Explosion Proof tower lights including ST45ML and STB45ML acquired KGS and NEPSI certificates
2013	01	Portable warning lights for agricultural machine applications patented (Patent # : 10-1226959)
2012	12	Explosion Proof warning lights (SNE, SNES) acquired CCS Certificates LED work light with cylindrical lens attached patented (Patent # : 10-1219020)
	09	Explosion Proof warning lights (SESA, SEA, SPNA) and heavy duty warning lights (SH1, SED, SEWN30) certified by CCS
	01	LED warning light with LED reflector patented (Patent # : 10-1108102)
2011	11	SNE, SNES certified by NEPSI, SNE, SNES, SESA, SEA, SPNA certified by KOSHA
	08	KCC (Korea Communications Commission) certificate acquired
	07	Light equipment applying prism system patented (Patent # : 10-1051056) ATEX certificate acquired for PC controlled tower light (ST56EL-ETN)
2010	05	QEB certified by KIMM LED warning light, bulb revolving warning light patented (Patent # : 10-0961472)
2009	12	SSEL certified by KIMM LED tower lights compliant with the RoHS Directive
2008	04	Motor drive system patented (Patent # : 20-0439536)
	03	LED revolving type lens patent acquired (patent # :10-0808669)
2007	11	Explosion Proof electric horn (SPNA) acquired NEPSI certificates
	05	Tower light models including ST45, ST56,ST80) UL listed
2005	07	Heavy duty products for vessel applications acquired Lloyd's (UK's Maritime Classification Society) certificates
	04	ABS certificates acquired for 18 products including SH1
2004	06	ISO 9001:2000 certificates acquired
2001	02	Established Shanghai Qlight Electronic Co.,Ltd. in China
2000	07	Established Qlight Limited
1993	11	Nominated for developing domestic Explosion Proof warning lights by Korean Ministry of Science & Technology
1988	03	Developed limit switches for vessel applications
1986	07	Established Qlight

Wireless Network System Features

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.
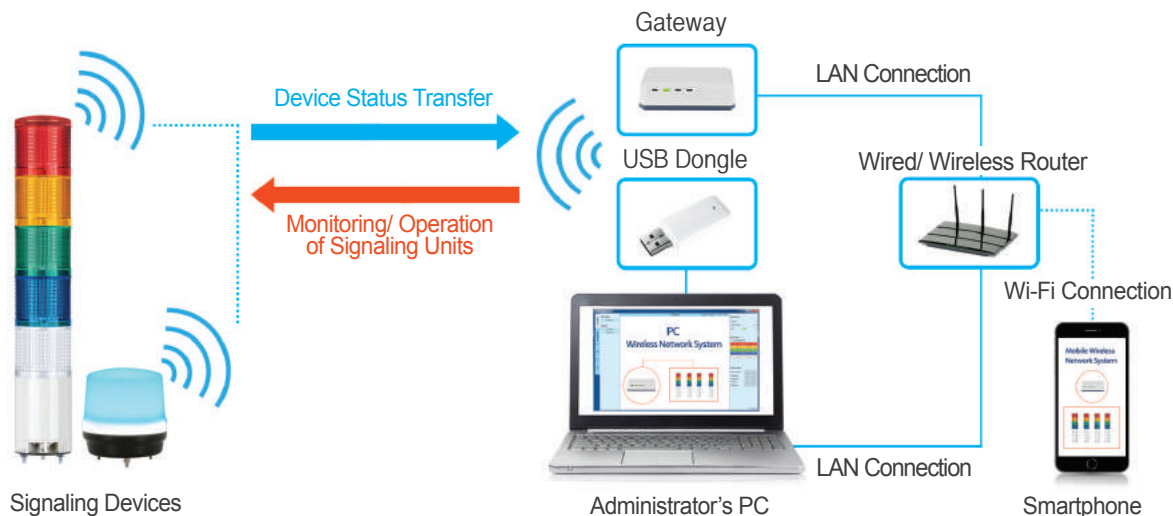
- Uses a Mesh Topology that operates in 2.4 GHz short-range wireless technology which ensures the communication reliability in harsh environments
- Multi-hop function of the signaling device enables stable long-distance communication (with up to 100M between devices)
- Conform to International Standard IEEE802.15.4g

• What is ZigBee?

ZigBee is a representative technology for low-power, low-cost wireless sensor network and has standardized the top layer Protocol and Application based on the IEEE 802.15.4 working group and PHY / MAC layer in 2003. IEEE802.15.1(Bluetooth),IEEE802.15.3(UWB), IEEE802.15.4(ZigBee) are the most common standards for Wireless Personal Area Network(WPAN). ZigBee uses three types of frequency bands: 2.4GHz, 868MHz, and 915MHz, with transmission rates of 250kbps, 20kbps, and 40kbps. Qlight network products uses 2.4GHz frequency band which has the fastest transmission speed.
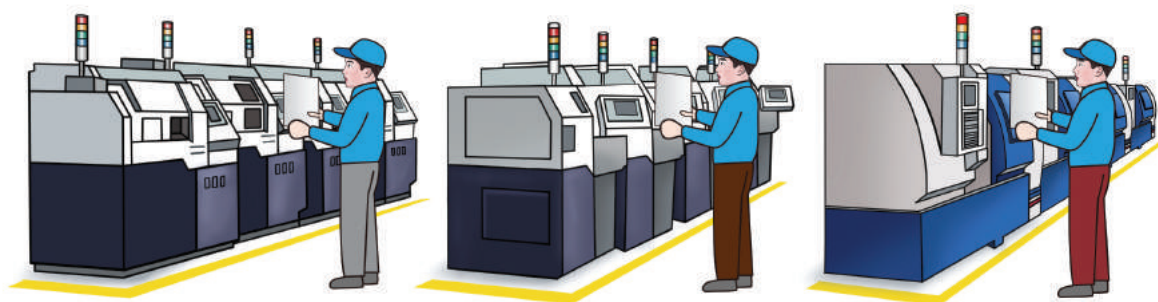
Wireless Network System Application

◆ **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.

Connection Failure

PC
Wireless Network System

ACTION

Connection Failure

PC   Gateway   Two−way communication

Signaling devices
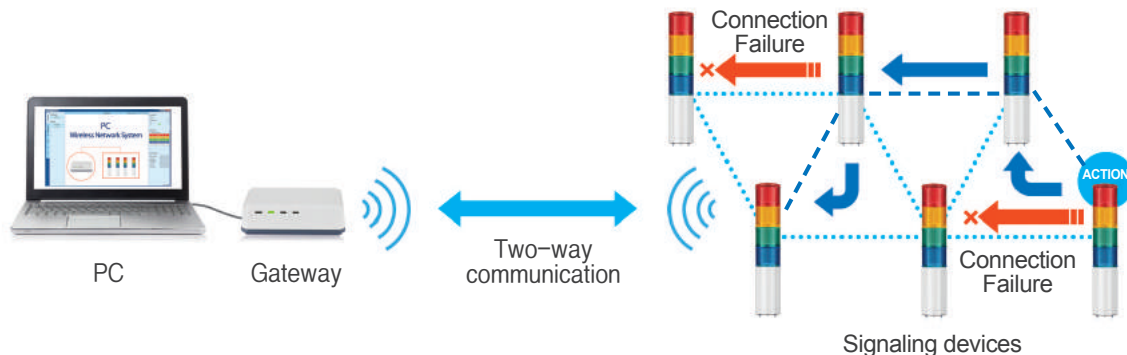
◆ **Building an advanced production network system with a low cost**
  • Combining a new network system to existing production lines can be easily done by connecting wireless signal devices.
  • Cost-effective by requiring no additional cable when change the layout of production lines .

PC
Wireless Network System

Wirless Network System Concept

· Components

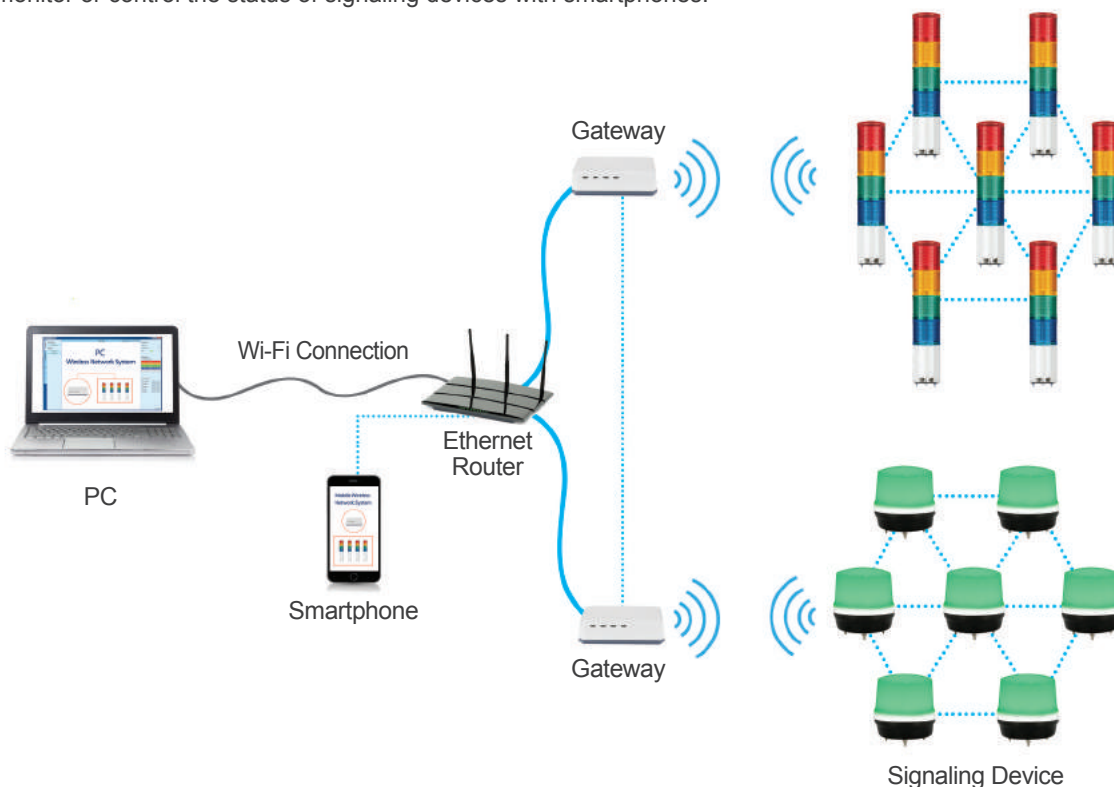| Application	Gateway	USB Dongle	Signaling Devices

1. Connection Types

1) Connection via USB Dongle

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

USB Dongle

PC

Signaling Devices

2) Connection via Gateway

- Connecting multiple gateways allows 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.

Gateway

Wi-Fi Connection

PC

Ethernet Router

Smartphone

Gateway

Signaling Device

Wireless Network System Instructions

2. Connection Instructions

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)
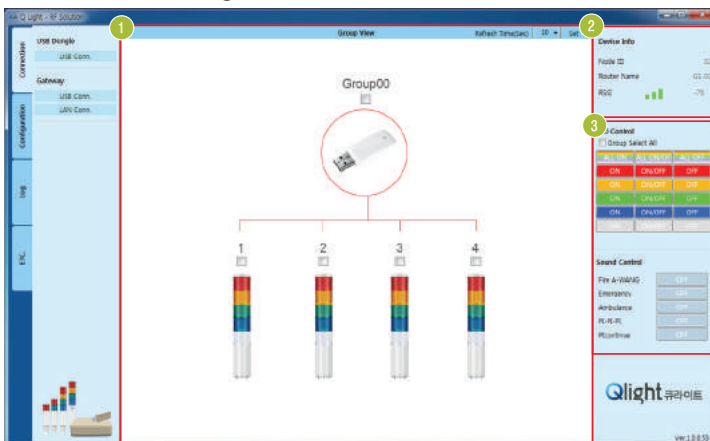

· USB Dongle Setting
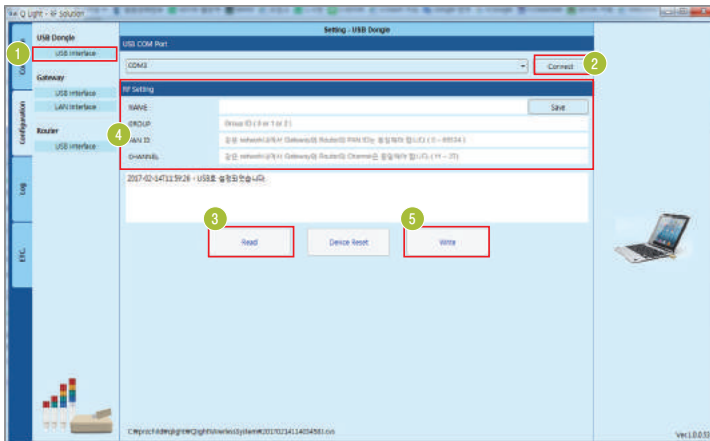
1. Config>USB DONGLE>Select "USB Interface"

2. Check the COM port of your PC and press "Connect" button to connect to the USB Dongle

3. Select "Read" to read RF information of the currently set USB dongle

4. Check and modify RF information of the USB dongle (RF info includes "NAME", "PANID", "CHANNEL", "GROUP", etc.)

5. Press "Write" button to save the modified information.

· USB Dongle Connection
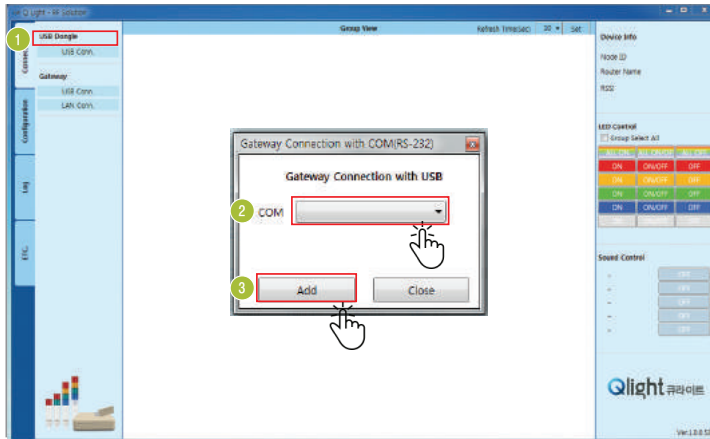
1. Connection>USB DONGLE>Press "USB Interface" Button

2. Select COM port in the pull down window

3. Press "ADD" button to connect USB dongle

· Device Monitoring & Control

1. Identify devices that are connected wirelessly via USB dongle
   - Select a connected device (can select individually or in group)

2. Check the information of selected device (ID, Name, Signal strength)

3. Can control operation of selected devices individually or in group

Wireless Network System Instructions

2) Gateway

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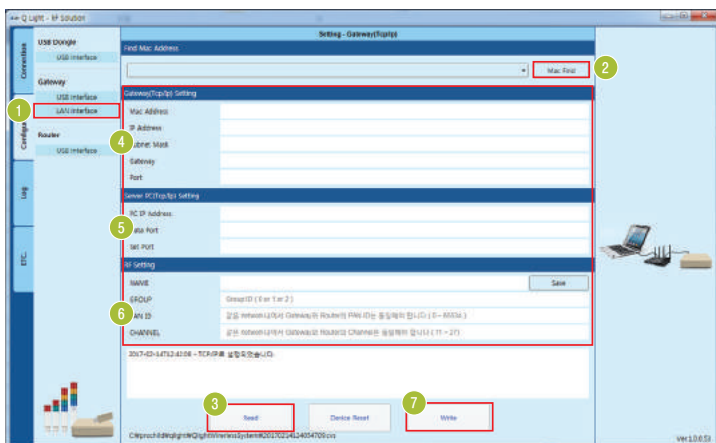
■ What is IIS? IIS stands for Microsoft's Internet information Services which is a WINDOWS service used for web service. With IIS, services such as FTP, SMTP, NNTP, and HTTP / HTTPS are available.

* Please refer to the separate manual for detailed settings and instruction
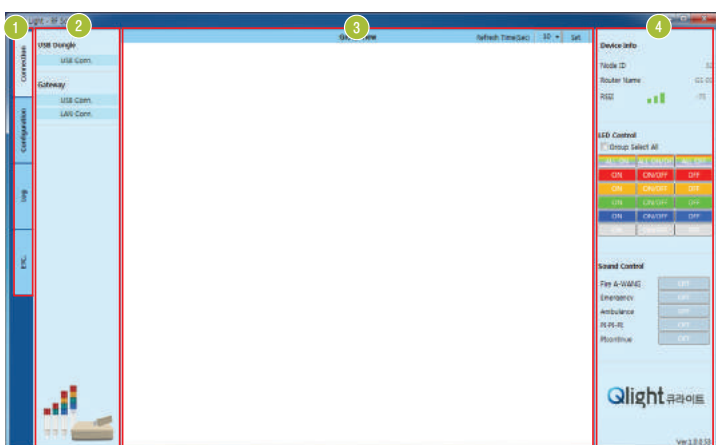
1 Tab
 • Connection : USB dongle, gateway connection setup
 • Configuration : USB dongle, gateway, router setup
 • Log : Stores log data and displays status of router through data viewer
 • Manual : User's guide for sample PC tool

2 Menu
 Provides detailed menu selections for each tab

3 Wireless network viewer
 Displays network status of the wireless devices

4 Status
 Displays the operation status and enables control of the wireless devices

· GATEWAY SETTING

1 Config>Gateway>Select "Lan Interface"

2 Click "Mac Find" to search the mac ad-dress of gateway

3 Press "Read" to check the current setting using the mac address of the gateway

4 Check and modify the network information of the gateway

5 Check and modify the network information of the PC server

6 Check and modify RF information of gateway

7 Save the modified settings

Wireless Network System Instructions

• Gateway Connection
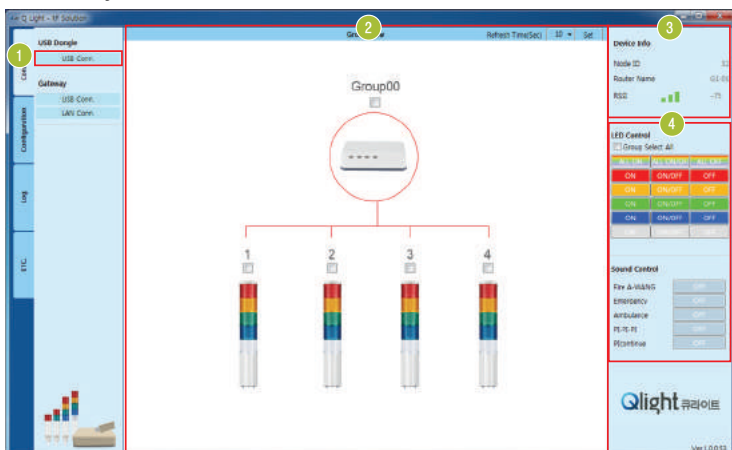
① Connection>Gateway>Select "Lan Interface"

② Select wireless device
- Can select individually or in groups
- Can check the operation status of the currently operating wireless devices

③ Can check the wireless setting of the selected devices

④ Can control selected individual device or group of devices

* The method of USB connection using the Gateway is same with the method of USB connection using USB DONGLE

3) Smartphone

• In order to use smartphone the gateway and wired/wireless router should be connected.
• Access to the web page from smartphone using the IP address of the administrator's PC with IIS set up.
• Log into your account in the login page and select the connected Gateway.
• Monitor or control the selected device by selecting the signaling device connected to the selected gateway.

| Connect to web page | Connect to web page | Select connected wireless device | Monitor or control the status of selected device |

Specification List For Wireless Products

Wireless LED Tower Lights

Model number(series)		QTG60ML-WIZ	QTG60L-WIZ	QTG70ML-WIZ	QTG70L-WIZ	
	Voltage	AC/DC12V, AC/DC24V AC110V~220V	AC/DC12V, AC/DC24V AC110V~220V	AC/DC12V, AC/DC24V AC110V~220V	AC/DC12V, AC/DC24V AC110V~220V	
Dimension (mm)	Diameter	Ø60	Ø60	Ø70	Ø70	
	Height	199-399	435-625	199-399	357-557	
	Depth					
	Materials	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	
Light source & Operation	Bulb Steady/Flashing					
	LED Steady					
	LED Steady/Flashing	●	●	●	●	
	LED Strobe					
	LED Simulated revolving					
Sound & Volume	1 buzzer sound	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	Max. 85dB at 1m	
	5 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, QLA18	TWS80, TWA80	LB24, LW24, QZ24, SZ24, QL24, SL24, QLA24	
Protection rating		IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	IP54(Buzzer type), IP65(Standard)	
Customization		2 buzzer sounds, Wall mount bracket, Strong buzzer, Black housing	2 buzzer sounds, Pole length adjustment, Strong buzzer, Black housing	2 buzzer sounds, Wall mount bracket, Strong buzzer, Black housing	2 buzzer sounds, Pole length adjustment, Strong buzzer, Black housing	
Transistor		NPN	NPN	NPN	NPN	
Communication		Wireless	Wireless	Wireless	Wireless	

Wireless LED Signal Lights

Model number		QMCL100-WIZ	QMCL125-WIZ
Voltage		DC12V, DC24V	DC12V, DC24V
Dimension (mm)	Diameter	Ø97	Ø116
	Height	95	110
Volume		Max. 80dB at 1m	Max. 80dB at 1m
Materials		Lens-AS Housing-ABS	Lens-AS Housing-ABS
Mount bracket		Self stand	Self stand
Protection rating		IP65	IP65
Customization		Wall mount	Wall mount
Transistor		NPN	NPN
Communication		Wireless	Wireless

QTG60ML-WIZ

Wireless LED Steady/ Flashing Tower Light

Qlight

IP54 | IP65 | -30~+50℃ | BUZZER | 85dB

NPN | RoHS | WIRELESS

QTG60ML-WIZ series

QTGA60ML-WIZ series

· PC Connection Components

USB Dongle	Suitable for single or small-scaled network Can connect up to 32 devices
Gateway	Suitable for large-scaled network One gateway unit is a single group, can connect up to 24 groups (each group can connect to 32 devices) * Network router is required for group communication.

ⓘ **Common Specifications (QTG60ML-WIZ/ QTG60L-WIZ/ QTG70ML-WIZ/ QTG70L-WIZ)**

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

• 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 standard : ZigBee(IEEE802.15.4)

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

Model number	Layer	Voltage	Current	Certificates	Weight	Color
QTG60ML-WIZ Steady QTG60ML-WIZ-BZ Steady /w built-in buzzer	1	AC/DC12V AC/DC24V AC110V-220V	0.170A 0.100A Max. 0.061A		0.29kg 0.29kg 0.39kg	● R-Red
QTG60MLF-WIZ Steady/Flashing QTG60MLF-WIZ-BZ Steady/Flashing /w built-in buzzer	2	AC/DC12V AC/DC24V AC110V-220V	0.260A 0.150A Max. 0.083A		0.37kg 0.37kg 0.47kg	● R-Red ● G-Green
QTGA60ML-WIZ Steady QTGA60ML-WIZ-BZ Steady /w built-in buzzer QTGA60MLF-WIZ Steady/Flashing QTGA60MLF-WIZ-BZ Steady/Flashing /w built-in buzzer	3	AC/DC12V AC/DC24V AC110V-220V	0.350A 0.200A Max. 0.105A	–	0.46kg 0.46kg 0.56kg	● R-Red ● A-Amber ● G-Green
	4	AC/DC12V AC/DC24V AC110V-220V	0.440A 0.250A Max. 0.126A		0.54kg 0.54kg 0.64kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	5	AC/DC12V AC/DC24V AC110V-220V	0.530A 0.300A Max. 0.148A		0.62kg 0.62kg 0.72kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

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

Wiring Instructions

• External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
• Signal line standard : UL1007 AWG22(0.3sq) 400mm
• LED tower light can be wiring with external contact and transistor

Customization

• High buzzer module equipped on top(Lens should be within 4 layers)
• Black housing tower lights
• 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep) buzzer output available
• Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall mount

Wall Mount Bracket **TWS45**
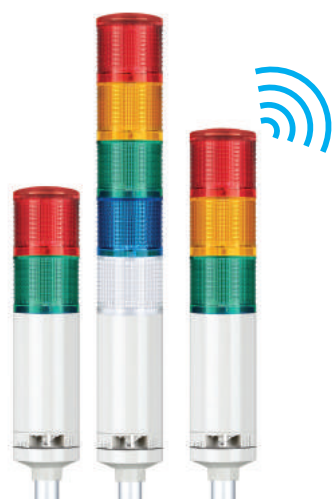

Wall Mount Bracket **TWA45**

Ordering Specification

QTG60ML-WIZ	–	3	–	110/220	–	RAG
[Model number]		[Layer]		[Voltage]		[Color]

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

QTG60L-WIZ

Wireless LED Steady/ Flashing Tower Light

Qlight

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

QTG60L-WIZ series

QTGA60L-WIZ series

· **PC Connection Components**

USB Dongle	Suitable for single or small-scaled network Can connect up to 32 devices
Gateway	Suitable for large-scaled network One gateway unit is a single group, can connect up to 24 groups (each group can connect to 32 devices) * Network router is required for group communication.

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

Model number	Layer	Voltage	Current	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	1	AC/DC12V AC/DC24V AC110V-220V	0.170A 0.100A Max. 0.061A		0.44kg 0.44kg 0.54kg	● R-Red
	2	AC/DC12V AC/DC24V AC110V-220V	0.260A 0.150A Max. 0.083A		0.53kg 0.53kg 0.63kg	● R-Red ● G-Green
QTGA60L-WIZ Steady QTGA60L-WIZ-BZ Steady /w built-in buzzer QTGA60LF-WIZ Steady/Flashing QTGA60LF-WIZ-BZ Steady/Flashing /w built-in buzzer	3	AC/DC12V AC/DC24V AC110V-220V	0.350A 0.200A Max. 0.105A	-	0.61kg 0.61kg 0.56kg	● R-Red ● A-Amber ● G-Green
	4	AC/DC12V AC/DC24V AC110V-220V	0.440A 0.250A Max. 0.126A		0.70kg 0.70kg 0.80kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	5	AC/DC12V AC/DC24V AC110V-220V	0.530A 0.300A Max. 0.148A		0.78kg 0.78kg 0.88kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

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

Wiring Instructions

• External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
• Signal line standard : UL1007 AWG22(0.3sq) 400mm
• LED tower light can be wiring with external contact and transistor

Mounting Bracket

Standard	LB18	LW18	QZ18	SZ18	QL18	SL18	QLA18
Steel	Steel	PC	PC	Al	PC	Al	PC

Customization

• 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep) buzzer output available
• Customized pole length available
• High buzzer module equipped on top(Lens should be within 4 layers)
• Black housing tower lights

Ordering Specification

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

[Model number]	[Layer]	[Voltage]	[Color]	[Mounting bracket]
• QTG60L-WIZ • QTG60L-WIZ-BZ • QTG60LF-WIZ • QTG60LF-WIZ-BZ • QTGA60L-WIZ • QTGA60L-WIZ-BZ • QTGA60LF-WIZ • QTGA60LF-WIZ-BZ	• 1-1Layer • 2-2Layers • 3-3Layers • 4-4Layers • 5-5Layers	• 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 -QLA18

QTG70ML-WIZ

Wireless LED Steady/ Flashing Tower Light

Qlight

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

QTG70ML-WIZ series

QTGA70ML-WIZ series

· **PC Connection Components**

USB Dongle	Suitable for single or small-scaled network Can connect up to 32 devices
Gateway	Suitable for large-scaled network One gateway unit is a single group, can connect up to 24 groups (each group can connect to 32 devices) * Network router is required for group communication.

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

Model number	Layer	Voltage	Current	Certificates	Weight	Color
QTG70ML-WIZ Steady QTG70ML-WIZ-BZ Steady /w built-in buzzer QTG70MLF-WIZ Steady/Flashing QTG70MLF-WIZ-BZ Steady/Flashing /w built-in buzzer QTGA70ML-WIZ Steady QTGA70ML-WIZ-BZ Steady /w built-in buzzer QTGA70MLF-WIZ Steady/Flashing QTGA70MLF-WIZ-BZ Steady/Flashing /w built-in buzzer	1	AC/DC12V AC/DC24V AC110V-220V	0.170A 0.100A Max. 0.061A	-	0.45kg 0.45kg 0.55kg	● R-Red
	2	AC/DC12V AC/DC24V AC110V-220V	0.260A 0.150A Max. 0.083A		0.59kg 0.59kg 0.69kg	● R-Red ● G-Green
	3	AC/DC12V AC/DC24V AC110V-220V	0.350A 0.200A Max. 0.105A		0.80kg 0.80kg 0.90kg	● R-Red ● A-Amber ● G-Green
	4	AC/DC12V AC/DC24V AC110V-220V	0.440A 0.250A Max. 0.126A		0.95kg 0.95kg 0.95kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	5	AC/DC12V AC/DC24V AC110V-220V	0.530A 0.300A Max. 0.148A		1.10kg 1.10kg 1.20kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

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

Wiring Instructions

• External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
• Signal line standard : UL1007 AWG22(0.3sq) 400mm
• LED tower light can be wiring with external contact and transistor

Customization

• High buzzer module equipped on top(Lens should be within 4 layers)
• Black housing tower lights
• 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep) buzzer output available
• Wall mount bracket options : Bracket structure allows for threading through the bracket hole or into the wall mount
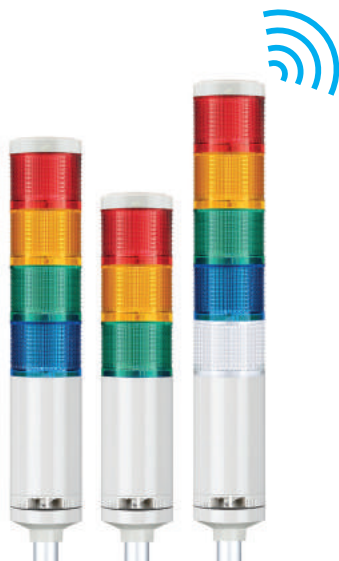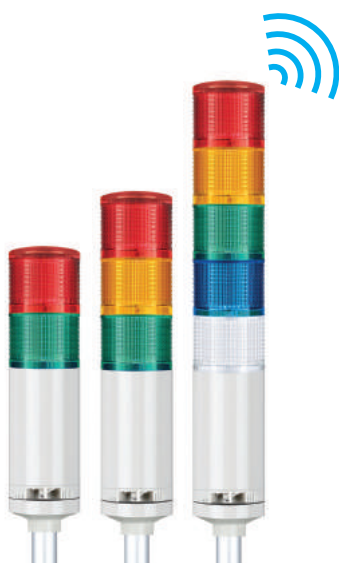
Wall Mount Bracket **TWS80**
Wall Mount Bracket **TWA80**

Ordering Specification

QTG70ML−WIZ	–	3	–	110/220	–	RAG
[Model number]		[Layer]		[Voltage]		[Color]

• QTG70ML-WIZ
• QTG70ML-WIZ-BZ
• QTG70MLF-WIZ
• QTG70MLF-WIZ-BZ
• QTGA70ML-WIZ
• QTGA70ML-WIZ-BZ
• QTGA70MLF-WIZ
• QTGA70MLF-WIZ-BZ

• 1-1Layer
• 2-2Layers
• 3-3Layers
• 4-4Layers
• 5-5Layers

• 12-DC12V
• 24-DC24V
• 110/220 -AC110V~220V

• ● R-Red
• ● A-Amber
• ● G-Green
• ● B-Blue
• ○ W-White

QTG70L-WIZ

Wireless LED Steady/ Flashing Tower Light

Qlight

IP54 | IP65 | -30~+50℃ | BUZZER | 85dB

NPN | RoHS | WIRELESS

QTG70L-WIZ series

QTGA70L-WIZ series

· PC Connection Components

USB Dongle	Suitable for single or small-scaled network Can connect up to 32 devices
Gateway	Suitable for large-scaled network One gateway unit is a single group, can connect up to 24 groups (each group can connect to 32 devices) * Network router is required for group communication.

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

Model number	Layer	Voltage	Current	Certificates	Weight	Color
QTG70L-WIZ Steady QTG70L-WIZ-BZ Steady /w built-in buzzer QTG70LF-WIZ Steady/Flashing QTG70LF-WIZ-BZ Steady/Flashing /w built-in buzzer QTGA70L-WIZ Steady QTGA70L-WIZ-BZ Steady /w built-in buzzer QTGA70LF-WIZ Steady/Flashing QTGA70LF-WIZ-BZ Steady/Flashing /w built-in buzzer	1	AC/DC12V AC/DC24V AC110V-220V	0.170A 0.100A Max. 0.061A	-	0.57kg 0.57kg 0.57kg	● R-Red
	2	AC/DC12V AC/DC24V AC110V-220V	0.260A 0.150A Max. 0.083A		0.69kg 0.69kg 0.79kg	● R-Red ● G-Green
	3	AC/DC12V AC/DC24V AC110V-220V	0.350A 0.200A Max. 0.105A		0.84kg 0.84kg 0.94kg	● R-Red ● A-Amber ● G-Green
	4	AC/DC12V AC/DC24V AC110V-220V	0.440A 0.250A Max. 0.126A		0.99kg 0.99kg 1.09kg	● R-Red ● A-Amber ● G-Green ● B-Blue
	5	AC/DC12V AC/DC24V AC110V-220V	0.530A 0.300A Max. 0.148A		1.23kg 1.23kg 1.32kg	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White

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

Wiring Instructions

• External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
• Signal line standard : UL1007 AWG22(0.3sq) 400mm
• LED tower light can be wiring with external contact and transistor

Mounting Bracket

Standard	LB24	LW24	QZ24	SZ24	QL24	SL24	QLA24
Steel	Steel	PC	PC	AI	PC	AI	PC

Customization

• 2 buzzer sound types : Both prolonged (beep, beep) and staccato (beep, beep, beep) buzzer output available
• Customized pole length available
• High buzzer module equipped on top(Lens should be within 4 layers)
• Black housing tower lights

Ordering Specification

QTG70L−WIZ	-	3	-	110/220	-	RAG	-	LW24

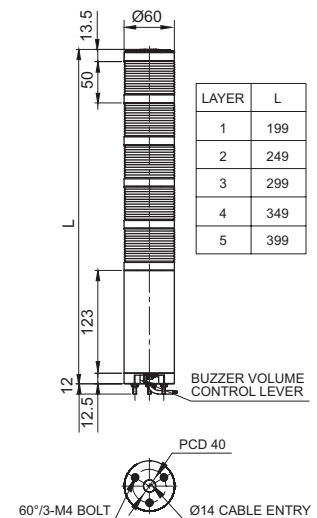| [Model number]	[Layer]	[Voltage]	[Color]	[Mounting bracket]
• QTG70L-WIZ • QTG70L-WIZ-BZ • QTG70LF-WIZ • QTG70LF-WIZ-BZ • QTGA70L-WIZ • QTGA70L-WIZ-BZ • QTGA70LF-WIZ • QTGA70LF-WIZ-BZ	• 1-1Layer • 2-2Layers • 3-3Layers • 4-4Layers • 5-5Layers	• 12-DC12V • 24-DC24V • 110/220 -AC110V-220V	● R-Red ● A-Amber ● G-Green ● B-Blue ○ W-White	• None -Standard • Bracket -LB24 -LW24 -QZ24 -SZ24 -QL24 -SL24 -QLA24

Technical Diagram

QTG60ML(F)-WIZ-Series

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

Ø60
13.5
50
L
123
12
12.5

BUZZER VOLUME CONTROL LEVER

PCD 40

60°/3-M4 BOLT   Ø14 CABLE ENTRY

QTG60L(F)-WIZ-Series

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

Ø60
13.5
50
L
145
26.5
200

BUZZER VOLUME CONTROL LEVER

Ø18

M18×1.5 THREAD

QTG70ML(F)-WIZ-Series

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

Ø70
13.5
50
L
123
12
12.5

BUZZER VOLUME CONTROL LEVER

PCD 40

60°/3-M4 BOLT   Ø14 CABLE ENTRY

QTG70L(F)-WIZ-Series

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

Ø70
13.5
50
L
145
28.5
120

BUZZER VOLUME CONTROL LEVER

Ø24

M24×1.5 THREAD
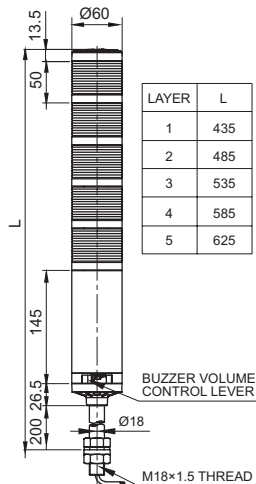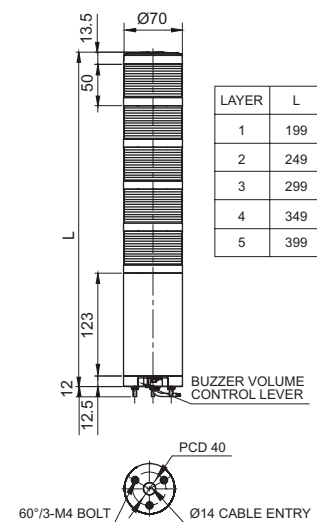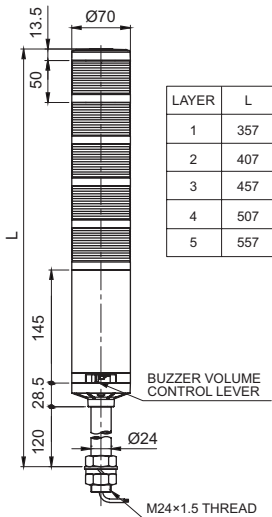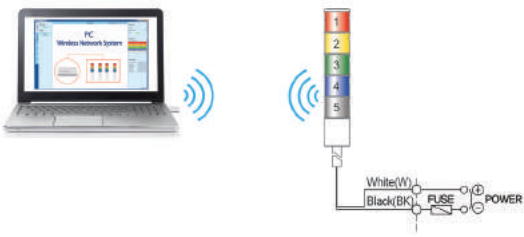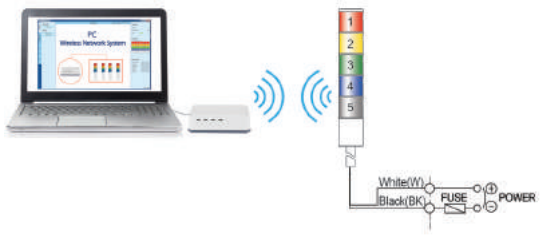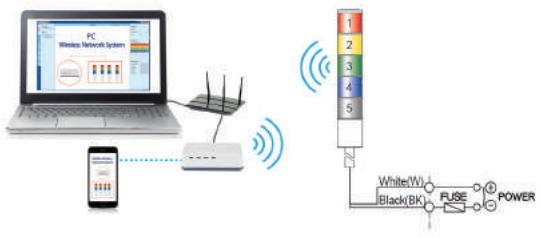
Wiring Instructions

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

Applied products	Connection by USB
AC/DC Steady/ Flashing QTG60ML-WIZ QTG60L-WIZ QTG70ML-WIZ QTG70L-WIZ	Connection via USB Dongle Connection via Gateway White(W) Black(BK) FUSE POWER White(W) Black(BK) FUSE POWER Suitable for single or small-scaled network Can connect up to 32 devices

Applied products	Connection by Ethernet
AC/DC Steady/ Flashing QTG60MLF-WIZ QTG60LF-WIZ QTG70MLF-WIZ QTG70LF-WIZ	Ethernet connection via Gateway Connection via Gateway and Ethernet Router White(W) Black(BK) FUSE POWER White(W) Black(BK) FUSE POWER Suitable for single or small-scaled network Can connect up to 32 devices 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)

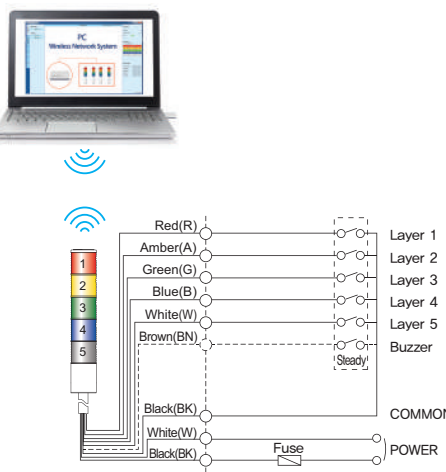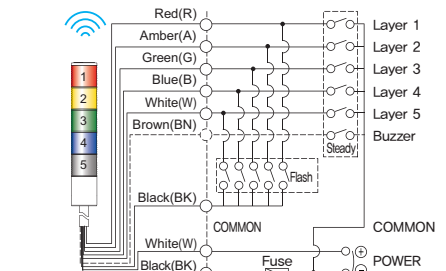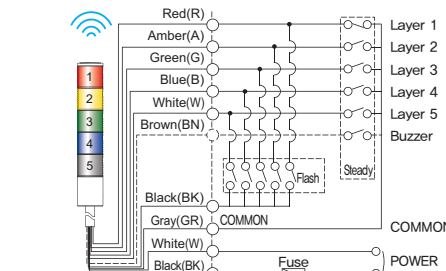• AC Steady type, AC/DC Steady/ Flashing type : External power line standard : UL1015 AWG18(0.75sq)×2C 400mm

Wiring Instructions

• Please wire the product by referring below instruction.
• You can monitor status of tower light and control them via wireless network.

Applied products	External Contact
AC/DC Steady QTG60ML-WIZ QTG60L-WIZ QTG70ML-WIZ QTG70L-WIZ	 · QTG(A) □□(M)L − WIZ : Same wiring including buzzer type · QTG □□L 　└Lens diameter 60(60mm) : QTG60(M)L 　　　　　　　70(70mm) : QTG70(M)L

DC Steady/ Flashing		AC Steady/ Flashing	
QTG60MLF-WIZ QTG60LF-WIZ QTG70MLF-WIZ QTG70LF-WIZ	 · QTG(A) □□(M)L − WIZ : Same wiring including buzzer type · QTG □□L 　└Lens diameter 60(60mm) : QTG60(M)L 　　　　　　70(70mm) : QTG70(M)L	QTG60MLF-WIZ QTG60LF-WIZ QTG70MLF-WIZ QTG70LF-WIZ	 · QTG(A) □□(M)L − WIZ : Same wiring including buzzer type · QTG □□L 　└Lens diameter 60(60mm) : QTG60(M)L 　　　　　　70(70mm) : QTG70(M)L

• DC Steady type External power line & Signal line standard : UL1007 AWG22(0.3sq) 400mm
• AC Steady, AC/DC Steady/ Flashing type External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
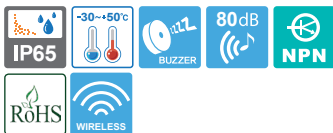 signal line standard : UL1007 AWG22(0.3sq) 400mm

Wiring Instructions

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

Applied products	External transistor
Product AC/DC Steady QTG60ML-WIZ QTG60L-WIZ QTG70ML-WIZ QTG70L-WIZ	 · QTG(A) □□(M)L – WIZ : Same wiring including buzzer type · QTG □□L 　　　Lens diameter 60(60mm) : QTG60(M)L 　　　　　　　　70(70mm) : QTG70(M)L

DC Steady/ Flashing QTG60MLF-WIZ QTG60LF-WIZ QTG70MLF-WIZ QTG70LF-WIZ	AC Steady/ Flashing QTG60MLF-WIZ QTG60LF-WIZ QTG70MLF-WIZ QTG70LF-WIZ
  · QTG(A) □□(M)L – WIZ : Same wiring including buzzer type · QTG □□L 　　　Lens diameter 60(60mm) : QTG60(M)L 　　　　　　　　70(70mm) : QTG70(M)L	 · QTG(A) □□(M)L – WIZ : Same wiring including buzzer type · QTG □□L 　　　Lens diameter 60(60mm) : QTG60(M)L 　　　　　　　　70(70mm) : QTG70(M)L

• DC Steady type External power line & Signal line standard : UL1007 AWG22(0.3sq) 400mm
• AC Steady, AC/DC Steady/ Flashing type External power line standard : UL1015 AWG18(0.75sq)×2C 400mm
　signal line standard : UL1007 AWG22(0.3sq) 400mm

QMCL-WIZ series

Wireless Multiple Color LED Steady Signal Lights

Qlight

IP65 | -30~+50℃ | BUZZER | 80dB | NPN

RoHS | WIRELESS

QMCL100-WIZ

QMCL125-WIZ

	Voltage	AC/DC12V	AC/DC24V
QMCL100-WIZ QMCL125-WIZ	Signal Line Power Consumption	0.320A	0.170A
	Buzzer Line Power Consumption	0.020A	0.020A

Common Specifications (QMCL100-WIZ/ QMCL125-WIZ)

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

• 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 standard : 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

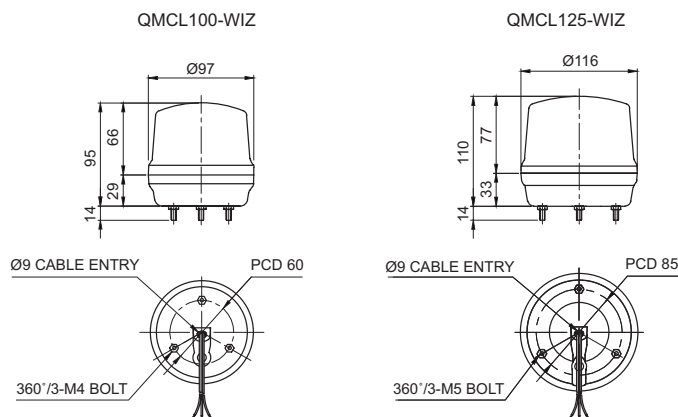## QMCL100-WIZ Ø100mm Wireless Multiple Color LED Steady Signal Lights

Model number	Voltage	Current	Certificates	Weight	Color
QMCL100-WIZ	DC12V	0.320A	-	0.27kg	7 Color
	DC24V	0.170A			

QMCL125-WIZ Ø125mm Wireless Multiple Color LED Steady Signal Lights

Model number	Voltage	Current	Certificates	Weight	Color
QMCL125-WIZ	DC12V	0.320A	-	0.34kg	7 Color
	DC24V	0.170A			

Technical Diagram

(Units : mm)

QMCL100-WIZ

Ø97
95 | 66 | 29 | 14

QMCL125-WIZ

Ø116
110 | 77 | 33 | 14

Ø9 CABLE ENTRY   PCD 60
360˚/3-M4 BOLT

Ø9 CABLE ENTRY   PCD 85
360˚/3-M5 BOLT

QMCL-WIZ series

Wireless Multiple Color LED Steady Signal Lights

IP65 | -30~+50℃ | BUZZER | 80dB | NPN

RoHS | WIRELESS

## · PC Connection Components

USB Dongle	Suitable for single or small-scaled network Can connect up to 32 devices
Gateway	Suitable for large-scaled network One gateway unit is a single group, can connect up to 24 groups (each group can connect to 32 devices) * Network router is required for group communication.

Wiring Instructions

• External signal line standard : 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

Customization

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

Wall Mount Bracket **SWP125**   Wall Mount Bracket **SWM125**
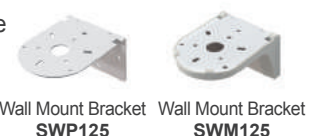
Ordering Specification

QMCL100–WIZ	–	BZ	–	24
[Model number]		[Buzzer option]		[Voltage]
• QMCL100-WIZ • QMCL125-WIZ		• None - No buzzer • BZ- Built-in buzzer		• 12-DC12V • 24-DC24V

QMCL-WIZ series

Wireless Multiple Color LED Steady Signal Lights

Qlight

Wiring Instructions

• Please refer to Wiring Instructions diagram to properly configure wireless network option.

Applied products	Connection by USB
QMCL100-WIZ QMCL125-WIZ	

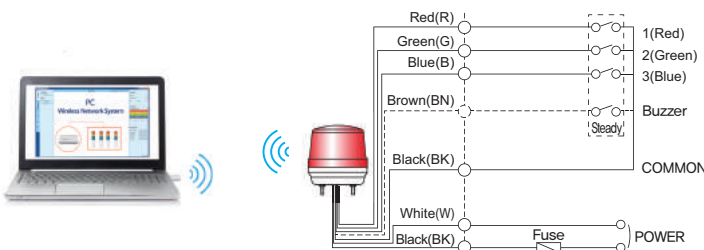| Applied products	Connection by Ethernet
QMCL100-WIZ QMCL125-WIZ	Ethernet connection via Gateway Connection via Gateway and Ethernet Router

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

External Contact

Applied products: QMCL100-WIZ 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

Applied products: QMCL100-WIZ 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)

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Qlight IECEx ATEX Ex NEPSI KGS KOSHA ABS Ⓡ CCS KR C E UL CCC

WARNING LIGHT │ ELECTRONIC HORN │ SIGNAL TOWER LIGHT │ EMERGENCY LIGHT BAR │ LED OBSTRUCTION LIGHT │ LED WORK LIGHT