LED Steady/Flash & Electric Horn

QAD100/125









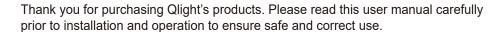














▲ Precautions for Safety

Failure to follow the instructions below may cause a loss of life or serious physical injury.

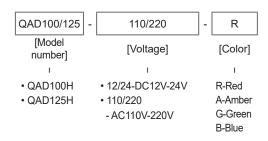
- 1. During wiring or maintenance, please completely turn off the power of the product. (Failure to follow this may lead to an electric shock.)
- 2. Do not install the product in locations that subjects it to excessive dust or water other than the conditions designated by the IP protection ratings indicated for each product. (Failure to follow these instructions may cause a fire to the product, electric shock, physical injury, malfunction or damage to the product.)
- 3. Do not alter or repair this product. If maintenance or repair service is required, please contact your local Qlight contact point. (Failure to follow these instructions may lead to fire, electric shock, or product damage.)
- 4. Please apply the correct voltage to the product. (Failure to follow these instructions may lead to fire, electric shock, or product damage.)
- 5. When the product is applied to a condition that may impact lives or property, please make sure to have a double safety device. (Failure to follow this may cause damage to property, fire, electric shock and loss of life.)

▲ Precautions for Correct Use

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

- 1. Please remove any objects that can interrupt ventilation around the product.
- 2. Please turn off the power of the product immediately if it fails to operate properly.
- 3. Carefully wire the product according to each product's specification.
- 4. Please be careful in preventing chemicals such as thinner, benzene, etc. in contact with the surface of the product.
- 5. Do not apply excessive force/impact to the product.
- 6. Failure to follow any of the instructions above may cause malfunction or damage to the product, fire, and electric shock.

Ordering Specifications



Product Specifications

Model number	Voltage	Current	Sound pattern and volume	Certificates	Weight	Color	
OAD100U	DC12V -24V	Max. 1.020A	• Bit Input : 5Ch • Binary Input : 30Ch • 경고음 : Max.100dB		0.92Kg	R-Red A-Amber	
QAD100H	AC110V- 220V	Max. 0.210A	• MP3 음원 : Max.95dB	C€	0.94Kg		
OAD425U	DC12V -24V	Max. 2.150A	• Bit Input : 5Ch • Binary Input : 30Ch • 경고음 : Max.115dB	(6	1.12Kg	G-Green B-Blue	
QAD125H	AC110V- 220V	Max. 0.320A	• 성고름 : Max.115dB • MP3 음원 : Max.100dB		1.14Kg		

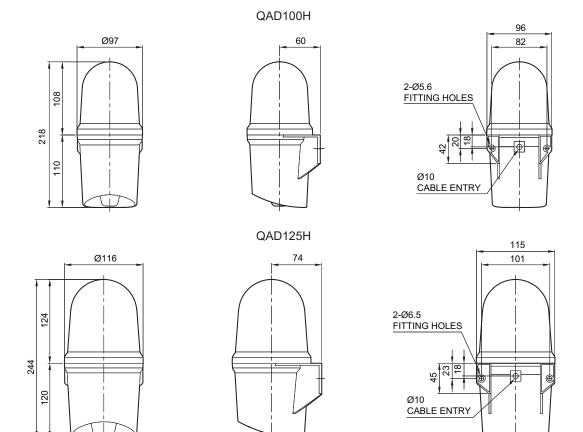
- Protection rating: IP65
- Ambient operating temperature : -30°C to +50°C



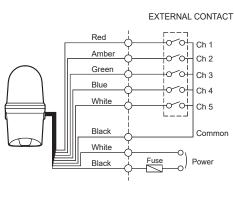
Please scan the QR code for more detailed product information.

www.qlight.com

Dimensions (Units : mm)

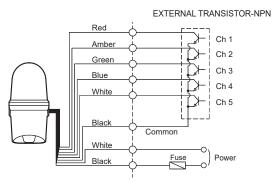


Wiring Instructions

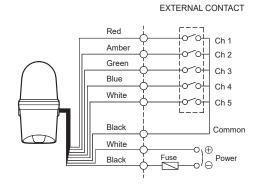




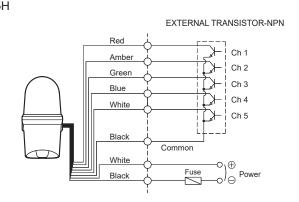
QAD100H



QAD125H



- External power line UL1015 AWG18(0.75sq) x 2C 400mm External signal line UL1007 AWG22(0.3sq) 400mm
- QAD100H: This product can be wired regardless of polarity.
- QAD125H : Black output line is negative(-).



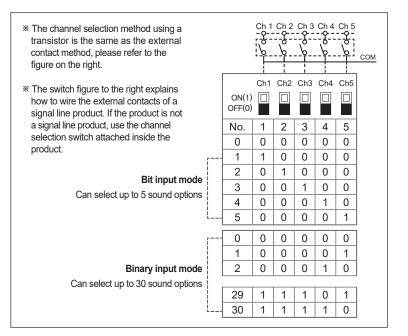
Bit/ Binary Input Method Depending on Wiring Method

■ Bit Input Mode

- Bit input mode(using external line) allows you to select one of five sound options by switching on one of the 5 channels (Ch1 - Ch5).
- Total of 5 sound options are configurable.

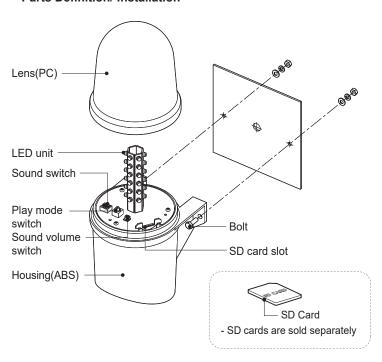
■ Binary Input Mode

- Binary input mode(using external line) allows you to receive multiple inputs by using the 5 channels(Ch1 - Ch5) to configure one of 30 sound options.
- Total of 30 sound options are configurable.



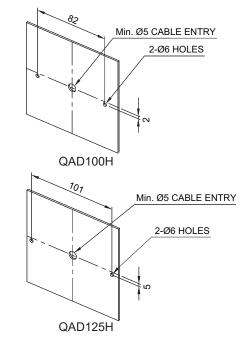
Parts Definition/ Installation/ Mounting Hole Specifications

■ Parts Definition/ Installation



■ Mounting Hole Specifications

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

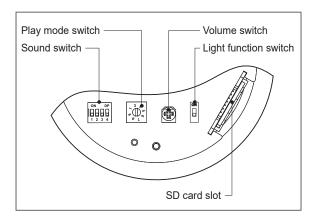


- First, machine taps or holes on the mounting surface.
- The mounting hole of this product is 6mm in diameter.
- When machining taps, fasten the bolt through the mounting hole of the product.
- · When machining holes, insert the bolt through the hole of the product, and tighten the nut from the opposite side of the mounting surface.
- Install a flat washer and a spring washer to the bolt if the product can experience severe vibration and shock.

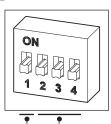
Installation Environment and Protection Rating

- This product is designed for use with protection rating of IP65.
- If the product is installed in locations that subject it to excessive dust or water other than the designated IP protection rating indicated(IP65), it may cause malfunction or damage to the product.
- In case of outdoor applications, install the product in the upright position. Do not install the product horizontal or upside-down positions where water can potentially penetrate into the product and impact it's operation.
- For further information, please visit our website (www.qlight.com).

Top Control Configuration



Sound Setting



- Select different built-in sounds using the sound setting switch.
- Please be conscious of the number selected for your desired sound option.
- Switch 1 : Can select between built-in sound and external sound options
- Switch 2,3 and 4 : Can select sound group from built-in sounds

■ Select Built-in Voice Group

- This is used when built-in sound mode is selected.
- Select between the six sound groups.
- Every group has 5 type of sounds.

How to select binary type sound group									
ON(1)				Sounds					
No.	2	3	4						
1	0	0	1	5 Warning Sounds					
2	0	1	0	5 Special Warning Sounds (1st Group)					
3	0	1	1	5 Melodies					
4	1	0	0	5 Alarms					
5	1	0	1	5 Special Warning Sounds (2nd Group)					
6	1	1	0	5 Special Warning Sounds (3rd Group)					

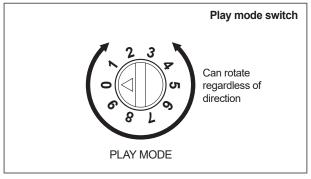
■ Selection between Built-in Sound and External Sound (SD Card Type)



- To play built-in sounds, set the sound setting switch to the OFF (0) position.
- To play an external sound on the SD card, insert the SD card into SD card slot and set the sound setting switch to ON (1).

Play Mode Setting

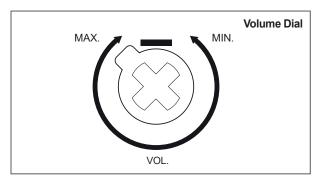
- Can select between channel input methods (bit/ binary) and various playback modes.
- Use a (-) flat screwdriver to rotate one space at a time (regardless of the direction of rotation.)
- · Switch 0 and 9 have no function.



	PLAY MODE									
1	Bit Input Mode	Play back one of the 5 built-in or external sounds once For a built-in sound, the playback time is about 10 seconds								
2	Binary Input Mode	Play back one of the 30 built-in or external sounds once For a built-in sound, the playback time is about 10 seconds								
3	Bit Input Hold Playback Mode	Play back one of the 5 built-in or external sounds continuously								
4	Binary Input Hold Playback Mode	Play back one of the 30 built-in or external sounds continuously								
5	Bit Input Sound Reduction Mode	Decrease the volume of the selected channel by 15dB Play back one of the 5 built-in or external sounds continuously								
6	Binary Input Sound Reduction Mode	Decrease the volume of the selected channel by 15dB Play back one of the 30 built-in or external sounds continuously								
7	Bit Input Sequence Memory Playback Mode	When other channel signals are continuously inputted within 3 seconds after inputting the channel, the input order is memorized and playback in the memorized order (playback time is 3 - 5 seconds) The last input channel is played continuously (Bit input only)								
8	Test Mode	In the test mode, the Ch1 of the built-in sound or the external sound is automatically played continuously Switch back to another mode to exit test mode								

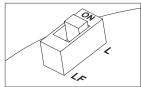
Volume Adjustment

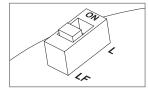
- The volume output of this product is adjustable.
- Turn the volume dial clockwise to increase the volume, and turn counter clockwise to decrease the volume.
- There will be no sound when the dial is put at MIN.



Light Function Selection

 Please refer to the chart below to use light function selection switch located inside the product.





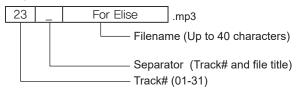
L: Steady

▶ LF : Flashing

 Default function is set at steady LED. Select the desired function for your application during installation.

SD Card Specifications and Sound Saving Manual

- · SD card specifications
- Use standard SD card.
- Mini SD or Micro SD also can be used with adaptor.
- SD, SDHC type supported
- Storage capacity : Max. 32GB
- Class : No specification
- Please save the MP3 sound file on the SD card as shown below.
- Create an "MP3_FILE" folder on the SD card and save the MP3 file in the following file format.
- MP3 file format



- When saving files, please save them in order.
- Please start saving after formatting the SD card.
- The length of the file name must not exceed 40 characters.



Sound Type and Combination Manual

■ Bit Input - Playing Built-in Sound

- In bit input mode, you can chooses one sound from 1 sound by configuring the 5 channels.
- For sound configurations, refer to the table below.

	Bit input method sound configuration										
Ch1 Ch2 Ch3 Ch4 Ch5 ON(1)						Type of sound (WS group as an example)					
No.	1	2	3	4	5						
0	0	0	0	0	0	No sound					
1	1	0	0	0	0	Fire.A-ANG(560Hz-1.5kHz)					
2	0	1	0	0	0	Emergency WA-U (600Hz-1.5kHz)					
3	0	0	1	0	0	Ambulance PI-PO (450Hz-900Hz)					
4	0	0	0	1	0	Machinery Fault(820Hz)					
5	0	0	0	0	1	High Expansion(1kHz)					

** Please be noted that the configuration chart above is explaining how to wire terminal blocks. The actual product does not have a switch.

■ Sound Type by Group

Bit input method sound configuration						
	Group	Channel	Type of sound			
		Ch1	Fire.A-ANG (560Hz-1.5kHz)			
		Ch2	Emergency WA-U (600Hz-1.5kHz)			
ws	5 Warning Sounds	Ch3	Ambulance PI-PO (450Hz-900Hz)			
	Counds	Ch4	Machinery Fault (820Hz)			
		Ch5	High Expansion (1kHz)			
		Ch1	Fire.A-ANG (560Hz-1.5kHz)			
	5 Special	Ch2	Abandon Alarm (820Hz)			
WP	Warning Sounds	Ch3	Machinery Fault (820Hz)			
	(1st Group)	Ch4	High Expansion (1kHz)			
		Ch5	7 Short Pl. / 1 Long (1kHz)			
		Ch1	Sweet Home			
		Ch2	For Elise			
WM	5 Melodies	Ch3	Cuckoo's Waltz			
		Ch4	Piano Sonata			
		Ch5	Turkish March			
		Ch1	Beep Intermittent			
		Ch2	Door Chime			
WA	5 Alarms	Ch3	Phone Ring			
		Ch4	PI.PI.PI Short			
		Ch5	Tripping Beat			
		Ch1	Rel rel (730Hz-920Hz)			
	5 Special Warning	Ch2	Slow Ambulance PI-PO (820Hz-1.05kHz)			
WO	Sounds	Ch3	Wye yong Wye yong (770Hz-1.2kHz)			
	(2 nd Group)	Ch4	Phone ring 2 (740Hz-910Hz)			
		Ch5	Fire.A-ANG (770Hz-1.11kHz)			
		Ch1	Oit Oit (500Hz-1.11kHz)			
	5 Special	Ch2	Pi o Pi o (940Hz-2.19kHz)			
WN	Warning Sounds	Ch3	Slow Di o Di o (680Hz-840Hz)			
	(3 rd Group)	Ch4	Li long Li ling (420Hz-470Hz)			

■ Binary Input - Playing Built-in Sound

- In binary input mode, you can chooses one sound from 30 sounds by configuring the 5 channels.
- For sound configurations, refer to the table below.
- Please be aware that the configuration for sound using the binary input method is different from the bit input method.

Binary input method sound configuration										
ON(1) OFF(0)	Ch1	Ch2	Ch3	Ch4	Ch5	Type of sound				
No.	1	2	3	4	5					
0	0	0	0	0	0	No sound				
1	0	0	0	0	1	Fire.A-ANG (560Hz-1.5kHz)				
2	0	0	0	1	0	Emergency WA-U (600Hz-1.5kHz)				
3	0	0	0	1	1	Ambulance PI-PO (450Hz-900Hz)				
4	0	0	1	0	0	Pi-ik Pi-ik (800Hz)				
5	0	0	1	0	1	Machinery Fault (820Hz)				
6	0	0	1	1	0	High Expansion (1kHz)				
7	0	0	1	1	1	Alarm (1kHz)				
8	0	1	0	0	0	Sweet Home				
9	0	1	0	0	1	For Elise				
10	0	1	0	1	0	Cuckoo's Waltz				
11	0	1	0	1	1	Piano Sonata				
12	0	1	1	0	0	Turkish March				
13	0	1	1	0	1	Magic Flute				
14	0	1	1	1	0	Badinerie				
15	0	1	1	1	1	Pineapple Rag				
16	1	0	0	0	0	Beep Intermittent				
17	1	0	0	0	1	Door Chime				
18	1	0	0	1	0	Phone Ring				
19	1	0	0	1	1	PI.PI.PI Short				
20	1	0	1	0	0	Tripping Beat				
21	1	0	1	0	1	Rel rel (730Hz-920Hz)				
22	1	0	1	1	0	Slow Ambulance PI-PO (820Hz-1.05kHz)				
23	1	0	1	1	1	Wye yong Wye yong (770Hz-1.2kHz)				
24	1	1	0	0	0	Phone ring 2 (740Hz-910Hz)				
25	1	1	0	0	1	Fire.A-ANG (770Hz-1.11kHz)				
26	1	1	0	1	0	Oit Oit (500Hz-1.11kHz)				
27	1	1	0	1	1	Pi o Pi o (940Hz-2.19kHz)				
28	1	1	1	0	0	Slow Di o Di o (680Hz-840Hz)				
29	1	1	1	0	1	Li long Li ling (420Hz-470Hz)				
30	1	1	1	1	0	911 Siren (150Hz-1kHz)				

^{**} Please be noted that the configuration chart above is explaining how to wire terminal blocks. The actual product does not have a switch.

Sound Type and Combination

■ Bit Input - Playing External Sound (SD Card)

- User can save sounds(MP3) to the SD card and able to select 1 sounds from 5 saved sounds.
- For sound configurations, refer to the table below.

	Bit input method sound source configuration										
ON(1) OFF(0)	Ch1	Ch2	Ch3	Ch4	Ch5	Type of sound					
No.	1	2	3	4	5						
0	0	0	0	0	0	No sound					
1	1	0	0	0	0	Custom sound1(01_xxx.mp3)					
2	0	1	0	0	0	Custom sound2(02_xxx.mp3)					
3	0	0	1	0	0	Custom sound3(03_xxx.mp3)					
4	0	0	0	1	0	Custom sound4(04_xxx.mp3)					
5	0	0	0	0	1	Custom sound5(05_xxx.mp3)					

^{*} Please be noted that the configuration chart above is explaining how to wire terminal blocks. The actual product does not have a switch.

■ Binary Input - Playing External Sound (SD Card)

- Binary input mode chooses one of the 30 sounds by combining the on/ off switch of the 5 different channels to the associated tone.
- For sound configurations, refer to the table below.
- Please be aware that the configuration for sound using the binary input method is different from the bit input method.

	Binary input method sound source configuration									
ON(1) OFF(0)	Ch1	Ch2	Ch3	Ch4	Ch5	Type of sound				
0	0	0	0	0	0	No sound				
1	0	0	0	0	1	Custom sound1(01 xxx.mp3)				
2	0	0	0	1	0	Custom sound2(02 xxx.mp3)				
3	0	0	0	1	1	Custom sound3(03 xxx.mp3)				
4	0	0	1	0	0	Custom sound4(04 xxx.mp3)				
5	0	0	1	0	1	Custom sound5(05 xxx.mp3)				
6	0	0	1	1	0	Custom sound6(06 xxx.mp3)				
7	0	0	1	1	1	Custom sound7(07 xxx.mp3)				
8	0	1	0	0	0	Custom sound8(08_xxx.mp3)				
9	0	1	0	0	1	Custom sound9(09_xxx.mp3)				
10	0	1	0	1	0	Custom sound10(10 xxx.mp3)				
11	0	1	0	1	1	Custom sound11(11 xxx.mp3)				
12	0	1	1	0	0	Custom sound12(12 xxx.mp3)				
13	0	1	1	0	1	Custom sound13(13 xxx.mp3)				
14	0	1	1	1	0	Custom sound14(14 xxx.mp3)				
15	0	1	1	1	1	(_ , ,				
	1			-	-	Custom sound15(15_xxx.mp3)				
16		0	0	0	0	Custom sound16(16_xxx.mp3)				
17	1	0	0	0	1	Custom sound17(17_xxx.mp3)				
18	1	0	0	1	0	Custom sound18(18_xxx.mp3)				
19	1	0	0	1	1	Custom sound19(19_xxx.mp3)				
20	1	0	1	0	0	Custom sound20(20_xxx.mp3)				
21	1	0	1	0	1	Custom sound21(21_xxx.mp3)				
22	1	0	1	1	0	Custom sound22(22_xxx.mp3)				
23	1	0	1	1	1	Custom sound23(23_xxx.mp3)				
24	1	1	0	0	0	Custom sound24(24_xxx.mp3)				
25	1	1	0	0	1	Custom sound25(25_xxx.mp3)				
26	1	1	0	1	0	Custom sound26(26_xxx.mp3)				
27	1	1	0	1	1	Custom sound27(27_xxx.mp3)				
28	1	1	1	0	0	Custom sound28(28_xxx.mp3)				
29	1	1	1	0	1	Custom sound29(29_xxx.mp3)				
30	1	1	1	1	0	Custom sound30(30_xxx.mp3)				

^{**} Please be noted that the configuration chart above is explaining how to wire terminal blocks. The actual product does not have a switch.

Operation Method and Setting

	When using a	built-in sound	When using an external sound (SD card)		
	Bit input	Binary input	Bit input	Binary input	
sound ton	ized into 6 groups of 5 les for a total of 30 sound ons. Play one of the five nds in each 5 group	Play one of 30 built-in sounds	Play one of the 5 user-recorded sounds	Play one of the 5 user-recorded sounds	

■ When Using a Built-in Sound in Bit Input Mode

Sound switch setting → Play mode switch setting → Channel selection

- Set the No. 1 switch of the Sound setting switch to OFF to select built-in sound.
- For more information, see page 5 'Sound Settings'.
- 2. Use one of the sound setting switches 2, 3 and 4 to select one of the 6 groups.
- For more information, see page 5 'Sound Settings'.
- 3. Use the play mode setting switch to select one of the modes between 1, 3, 5, 7, or 8.
- Mode 8 is a test mode which continuously plays channel 1. (In this case, channel selection is disabled.)
- For more information, refer to page 5 'Play Mode Setting'.
- 4. Use the sound select switch to select one of the five built-in sounds.
- For more information, please refer to page 7 'Bit input Playing Built-in Sound'.
- For external signal line type (LC) products, please refer to page 3 'Bit/ Binary Input Method Depending on Wiring Method'.

■ When Using a Built-in Sound in Binary Input Mode

Sound switch setting → Play mode switch setting → Channel selection

- Set the No. 1 switch of the sound setting switch to OFF to select the built-in sound.
- For more information, see page 5 'Sound Settings'.
- 2. Use one of the sound setting switches 2, 3 and 4 to select one of the 6 groups.
- For more information, see page 5 'Sound Settings'.
- 3. Use the play mode setting switch to select one of the modes between 2, 4, 6, or 8.
- Mode 8 is a test mode which continuously plays channel 1. (In this case, channel selection is disabled.)
- For more information, refer to page 5 'Play Mode Setting'.
- 4. Use the sound select switch to select one of the 30 built-in sounds.
- For more information, please refer to page 7 'Binary Input -Playing Built-in Sound'.
- For external signal line type (LC) products, please refer to page 3 'Bit/ Binary Input Method Depending on Wiring Method'.

When Using an External Sound Source (SD Card) in Bit Input Mode

※ Insert SD card → Sound switch setting → Play mode switch setting → Channel selection

- Please refer to page 6 'SD Card Specifications and Sound Saving Manual' to see how to save sound files.
- Supports up to 5 user-defined sounds
- 2. Insert the SD card into the SD card slot.
- Set the No. 1 switch of the sound switch to ON to select external sound.
- For more information, see page 5 'Sound Settings'.
- 4. Use the play mode setting switch to select 1, 3, 5, 7 or 8 mode.
- Mode 8 is a test mode which continuously plays channel 1. (In this case, channel selection is disabled.)
- For more information, refer to page 5 'Play Mode Setting'.
- To select a channel, use the terminal block in the back side of the product to select one of the 5 user-defined sounds.
- For more information, please refer to page 8 'Bit input Playing External Sound (SD Card)'.
- For external signal line type (LC) products, please refer to page 3 'Bit/ Binary Input Method Depending on Wiring Method'.

When Using an External Sound Source (SD Card) in Binary Input Mode

※ Insert SD card → Sound switch setting → Play mode switch setting → Channel selection

- Please refer to page 6 'SD Card Specifications and Sound Saving Manual' to see how to save sound files.
- Supports up to 30 user-defined sounds
- 2. Insert the SD card into the SD card slot.
- Set the No. 1 switch of the sound setting switch to ON to select external sound.
- 4. Use the play mode setting switch to select one of the modes between 2, 4, 6, or 8.
- Mode 8 is a test mode which continuously plays channel 1. (In this case, channel selection is disabled.)
- For more information, refer to page 5 'Play Mode Setting'.
- Use the sound select switch to select the one of the 30 userdefined sounds.
- For more information, please refer to page 8 'Binary Input -Playing External Sound (SD Card)'.
- For external signal line type (LC) products, please refer to page 3 'Bit/ Binary Input Method Depending on Wiring Method'.

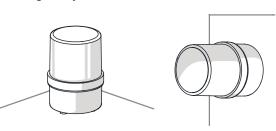
Product installation direction

■ Install the product in accordance with the manual. Otherwise rainwater or moisture may penetrate into the product.

· BEACON/SIGNALING LIGHT

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

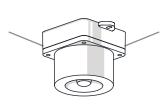
Power cord inlet part shall not be facing the sky.

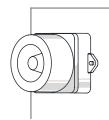




· ELECTRONIC SOUNDER/SIGNAL HORN

Sounder part shall not be facing the sky.







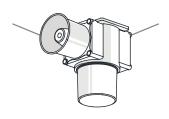


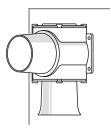




· HEAVY-DUTY & EXPLOSION PROOF SIGNALINGS

Sounder part shall not be facing the sky.



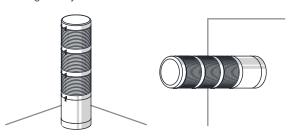




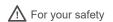
· SIGNAL TOWER LIGHTS

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

Power cord inlet part shall not be facing the sky.







Specification and dimensions listed in this catalogue subject to change without notice for product quality improvement. The newest product information is available on our website.(www.qlight.com)

Please read the instruction manual attached to the product carefully before installation and use.

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You can expect prompt service if you have exact information such as model name, symptom, telephone number and address.

**ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE

RELIABILITY FUNCTION OR DESIGN OR OTHERWISE

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