

Notice to Customer

Thank you very much for purchasing our PATLITE product. Request the installation and wiring be performed by a professional contractor if construction work is involved.

- Prior to installation, read this manual thoroughly before using this product to ensure correct use.
- After reviewing this manual, if there are any questions regarding this product, please contact the nearest PATLITE office listed on the back cover of this manual.

This book describes precautions of the product, as well as installation and wiring method, etc. Download the comprehensive operation manual and other detailed contents by going to our product homepage. In order to receive the three year free repair support, customer registration is necessary after purchasing our products. Please be aware that customer registration requires to be done within six months from the purchase date.

<http://www.patlite.com>

Since the URL indicated above also contains information regarding firmware updates, etc., it is recommended to refer back to it periodically.

To installation, construction, and wiring contractor

- Read this manual carefully, Prior to installation.
- Be sure to return this manual to the customer.

Symbols to indicate the degree of injury or damage

The following symbol classifies and explains the level of harm inflicted when caution is disregarded while using the product. In order to prevent any damage to the user and other personnel or to assets, note the following:

Danger This symbol indicates a dangerous condition: failure to follow the instructions will result in death or serious injury.

Warning This symbol indicates an imminently dangerous condition: failure to follow the instructions may lead to death or serious injury.

Caution This symbol indicates a potentially dangerous condition: failure to follow the instructions may lead to slight injury or property damage.

Meaning of the symbols

Degree	Symbol	Contents
Prohibited	⊘	Indicates it is forbidden.
Caution	⚠	Indicates to show caution.
Directions	!	Indicates when a procedure must be performed.

1 Read this First

Danger To prevent from shock, short-circuits or damage, observe the following:

- Be sure the power is disconnected before replacement (fuse exchange, etc.) or repair.
- Use this product in a properly maintained condition. (Replace or repair if the body, LED unit, etc. are damaged.)
- Request the installation and wiring be performed by a professional contractor if construction work is involved. Failure to comply may result in fire, electric shock or falling from high places may occur.

Caution Do not listen to the buzzer at close range. Failure to observe this may lead from irritation to permanent damage to the ears.

In order to maintain protection of this product against dust and waterproofing performance, be sure to use the head cover, buzzer unit, USB cover and LAN Bracket in the condition that it was originally attached. (TN)

Do not operate this product with the 'O' ring or waterproof packing removed. Waterproof performance will drop and possibility cause failure. (TN)

By all means, do not apply voltage to the Common wire (COM) or Flashing Common line. Product failure will occur.

When removing covers or packing from the equipment, which is attached to this product, be careful not to snag the product. Failure to comply may result in damage to the product.

Warning To ensure proper safety while using the signal tower, observe the following:

- Perform **periodic pre-maintenance**.
- As a precaution against problems occurring, use **this product together with other equipment**.
- Be sure to **discharge any static electricity** from the body before handling static sensitive parts of this product. (To prevent damage from static electricity, touch hands or other body parts to metals or an earth ground to discharge the body from static charge.)
- Use a soft cloth, etc., dampened with water to wipe the main signal tower unit. (Do not use cleaners containing chemicals such as **thinner, alcohol, gasoline or oil**.)
- To ensure safety when this product is installed onto equipment, observe the following:
 - **Do not remove parts** beyond those designed to be removed from this product.
 - **Do not modify or disassemble** this product.
 - Use only the specified replacement parts listed in this manual.

2 Parts and Accessories

LA6-5DTNWB-POE

Main Unit

Accessories

- Cross Recessed Pan Screw (M4x20) 3 pcs.
- * Not to be used.
- Flanged Nut (M4) 3 pcs.

Instruction Manual (This Book)

LA6-5DSNWB-POE

Main Unit

Accessories

- Rubber Sheet 3 pcs.

Instruction Manual (This Book)

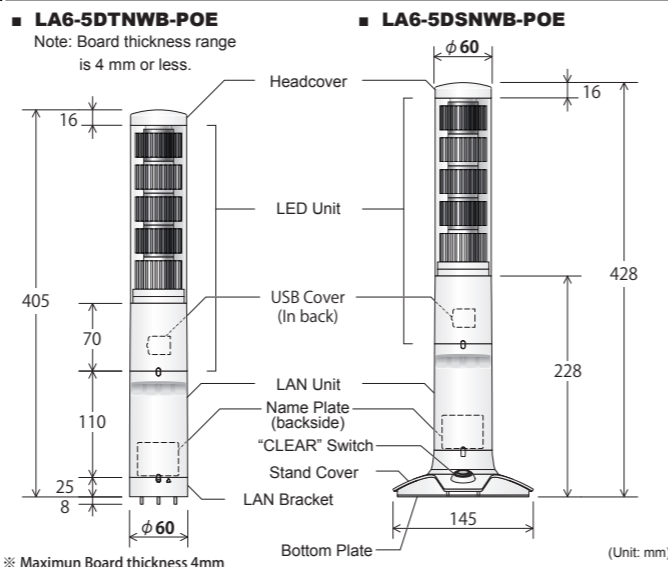
3 Model Configuration

Model Number	Model	LED Tiers	Rated Voltage	Mounting Specifications	Body Color	Flashing/Buzzer	Extended Functionality
LA6-	5	D	W	B	-POE		

Common to all models: Rated voltage: DC24V. PoE Supported.

Common to all models: TN Direct Mount, SN Stationary, W Off-white, B Flashing/Buzzer.

4 Part Name and Dimensions



5 Installation

Warning When installing in high places, such as a top shelf, fix the Main Unit so it cannot move or fall.

- Do not knock over or drop this product. Possible damage to the product may occur.
- Do not run LAN cable from outside. There is a risk of exposure to lightning strikes or other adverse weather conditions.
- The LAN Unit and Stand Cover cannot be separated. (SN)

Caution The following requirements are necessary for proper installation.

- Location with strong and even surface with minimal vibration.

- Install the signal tower in an upright position.
- In cases where the installation placement is unavoidably irregular, and waterproof performance is required, use a sealant to the crevice between the product and the installation surface. (TN)
- If an IP54 rating is required, when clamping each bracket, place sealant to the distribution hole area and the screw thread or nut. (TN)
- Before placing the rubber sheet onto the bottom plate, be sure to removedust, water, an oil, etc., on the bottom plate and the installation location. (SN)

General Mounting and Installation Instructions

SN Stationary Specifications

- Loosen the screw to remove the bottom plate. (Do not completely remove the screw from the bottom plate.)
- The lock on the terminal block connector can be unlocked and removed for wiring. (Refer to → "terminal block connector wiring method") (→ 6 Wiring)
- The LAN unit is connected to the terminal block connector and LAN cable.
- The tab on the bottom of the stand cover is hooked in place and secured with a screw.

Recommended Torque 0.6 N/m (Standard)

5 The rubber sheet is peeled from the yellow releasing paper, and is to be stuck onto the bottom plate. The transparent protection sheet on the rubber sheet is to be removed after attachment.

Mounting Dimensal Drawing

Labels: LAN Unit, LAN Cable, Terminal Block Connector, Stand Cover, Wiring Through-hole, Tab, Bottom Plate, Screw, Rubber Sheet.

※ The figure shows the most common installation circumstances, but cannot show for every possible circumstance. ※ The LAN cable and wiring is not included.

TN Direct Mount Specifications

- Make holes for the mount and wire-distribution hole for the product.
- Firmly hold the LAN Unit, and the turn to the left to remove it.
- Secure the LAN bracket with the accessorized nuts.

Recommended Torque 0.75 N/m (Standard)

- It allows the LAN cable wiring to pass through the distribution hole.
- The lock on the terminal block connector can be unlocked and removed for wiring. (Refer to → "terminal block connector detachment method") (→ 6 Wiring)
- The LAN unit is connected to the terminal block connector and LAN cable.
- The LAN unit is attached.
- Sealing around the mounting holes and the distribution hole is done if necessary.

※ The figure shows the most common installation circumstances, but cannot show for every possible circumstance. ※ The LAN cable and wiring is not included.

Terminal Block Connector Wiring Method

Removing LAN Unit Underside View

Attaching LAN Unit Underside View

Referring to the drawing, depress the lever on the right and left of the terminal block connector to unlock it, and pull the terminal block connector straight out.

Push the terminal block connector into the LAN unit until the levers can be locked in place. (When pushing the terminal block connector in place, the lever will temporarily move up, before it moves down and locks into place.)

Mounting Dimensal Drawing

6 Wiring

Terminal Block Connector Pin Arrangement

Power Wire (Signal Wire Side)	6	12	COM
Power Wire	5	11	Flashing/Pulse Enable Common
Input 4	4	10	Mode Change
Input 3	3	9	Input 7
Input 2	2	8	Input 6
Input 1	1	7	Input 5

Recommended lead wire specifications

Wire Type	UL1007/UL1430
Wire Gauge (Solid Wire)	0.2-1.5mm ²
Wire Gauge (Frayed Wire)	AWG24-16

Temperature rating should be above 75°C, and the conductor material should be of copper wire.

Terminal block connector wiring method

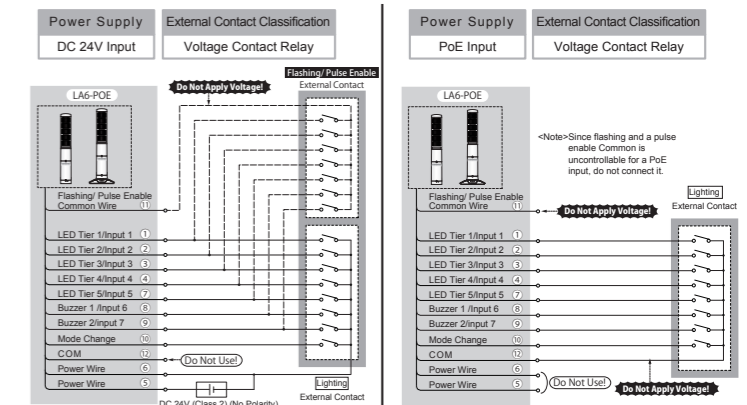
- The stripped side of the lead wire is inserted in the slot.
- A minus driver etc. is placed on the slot and pushed into the slot of the terminal block connector. (at a slight angle)
- The driver is then extracted from the slot. (Check to make sure the lead wire has been locked in place.)

Point

- The minus driver blade should be no less than 2.5mm in width and 0.4mm in thickness. Any object that fits the dimensions is also ok.
- Do not forcibly push the slot more than necessary with the driver. Failure to comply may damage the unit.
- Strip 6-7mm of wire insulation from the wire before inserting it in the Terminal Block.
- When removing the lead wire, Do not just pull to remove. (Be sure to slide the minus driver etc. into the slot to unlock it.)

Wiring Example

The following is a basic wiring example. If there are any special applications that require asking questions concerning this product, feel free to contact your PATLITE Sales Representative. ※ The figure shows the most common installation circumstances, but cannot show for every possible circumstance.



7 Setup Method

Once the power supply is switched on and startup is complete, as shown in Fig. 1, enter the IP address of this product into the web browser address section. The default IP address for this product is "192.168.10.1".

< Web Browser Address Entry > <http://192.168.10.1>

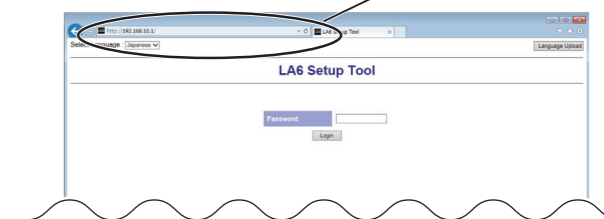


Figure 1. Login Screen

Recommended Browser: Internet Explorer 11, Google Chrome

When the login screen is displayed, enter "patlite" in the password field, then click the "Logging In" button. The default password is "patlite." Please be sure to change the password to prevent any security breaching.

Be sure to change the network Setup of the personal computer for the application as follows before communicating via a browser.

The personal computer IP address: 192.168.10.2-254
 Subnet Mask: 255.255.255.0
 (The default IP address at the time of factory shipment.)

- The LAN cable should be rated for category 5e or higher.
- The LAN cable can either be a straight or cross cable when connecting the PC to this product.
- Internet Explorer is a trademark or registered trademark of Microsoft Corporation.
- Google Chrome is a trademark or registered trademark of Google Inc.

8 Specifications

Compliance Standards

UL60950-1 (supplying DC24V power/PoE power)
 UL508, CSA-C22.2 No. 14 (TN) Only when supplying a DC24V supply)
Conformity requirements for UL 508 Standard:
 Maximum surrounding air temperature rating of 50°C
 This product is designed for use on a flat surface of a Type 1 Enclosure.

EMC Directive (EN 61000-6-4, EN 61000-6-2, EN55032, EN55024)
Conformity requirements for CE Marking:
 This product conforms to EN standard showing the CE Marking.
 This product has been tested and found to comply with the limits for a Class A device, pursuant to EMC DIRECTIVE.
 These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.
 This product must not be used in residential areas.

FCC Part 15, Subpart B Class A
Conformity requirements for FCC Part 15 Subpart B:
 This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.
 These limits are designed to provide reasonable protection against harmful interference in a residential installation.
 RoHS Directive (EN 50581)
 KC (KN 61000-6-4, KN 61000-6-2)

PATLITE Corporation G2G

PATLITE Corporation ※Head office <http://www.patlite.com/>
 4-1-3, Kyutaromachi, Chuo-ku, Osaka 541-0056 Japan

PATLITE (U.S.A.) Corporation <http://www.patlite.com/>
 PATLITE Europe GmbH <http://www.patlite.eu/>
 PATLITE (SINGAPORE) PTE LTD <http://www.patlite.com/>
 PATLITE (CHINA) Corporation <http://www.patlite.cn/>
 PATLITE KOREA CO., LTD. <http://www.patlite.co.kr/>
 PATLITE TAIWAN CO., LTD. <http://www.patlite.tw/>
 PATLITE (THAILAND) CO., LTD. <http://www.patlite.co.th/>