

# LU7 USB Base Unit Instruction Manual [ TYPE : LU7-02S-USB ]

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Thank you for purchasing Patlite's LU7 UAB base unit [LU7-02S-USB]. Prior to installation, read this manual thoroughly before using this product to ensure correct use. Store this book in a safe place, and when performing maintenance and repairs, etc., please be sure to reread this book. In addition, if there are any questions concerning this product, feel free to contact your PATLITE Sales Representative.

This product is a base unit with USB control for the LU7 (LU7-E-□) Tiered Signal Tower LED units.

## 1 For safe application, observe the following:

### Safety Precautions

In order to prevent any damage to the user and other personnel or to assets, note the following:

◆The warning indications are divided into the following classes according to the degree of danger or damage incurred when the warning is not taken into consideration and the product is not correctly used.

**Warning** Indicates an immediately dangerous condition: failure to follow the instructions may lead to death or serious injury.

**Caution** Indicates a potentially dangerous condition: failure to follow the instructions may lead to slight injury or property damage.

#### Warning

- Prior to installation and wiring, ensure the USB power is disconnected and the Main Unit is turned off. Failure to comply may result in damage of the internal circuitry and the danger of electric shock due to short-circuiting.
- Request the installation and wiring be performed by a professional contractor if construction work is involved. Failure to comply may result in electric shock, fire, or falling from high places.
- If this product is used for security purposes, use it in addition to other security products and inspect it periodically.
- After attaching this product onto the machinery, do not remove the cover, hook anything onto the product or use the product as a step when climbing onto the machinery. Failure to comply will result in damage to the product.

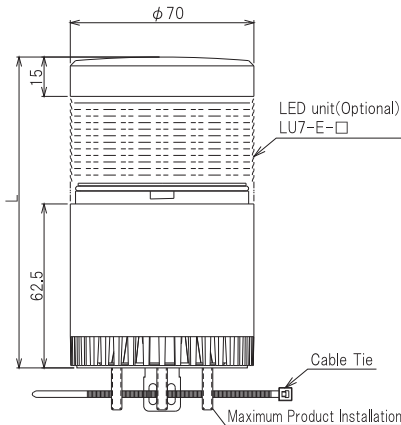
#### Caution

- Do not touch parts or the PCB pattern, other than the socket slide switch when wiring, assembling, and removal. The parts on the board may be damaged by static electricity.
- Avoid long exposure to the buzzer sound from a close distance. Failure to observe this may lead from irritation to permanent damage to the ears.
- Be sure to install this product (buzzer unit on top) in the upright position. If attached in other means for Uprights, there is a possibility that the unit may separate.
- Do not operate with the head cover or LED unit removed. Possible cause of failure may occur.

## 2 Model Number Configuration

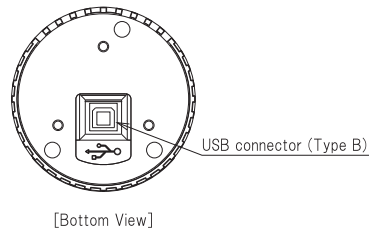
LU7-02S USB ← USB:USB Base Unit  
   ← Body color Blank:Light Gray  
 K:Black

## 3 Part Names and Outer Appearance



LED unit Qty	L
0	77.5
1	118.5
2	159.5
3	200.5
4	241.5
5	282.5

[Unit:mm]



[Bottom View]

Maximum Product Installation Board Thickness : 10

## 4 Installation and Wiring

### Warning

- Be sure the USB power is disconnected before working on the product. Failure to comply may result in damage of the internal circuitry and the danger of electric shock due to short-circuiting.

### Caution

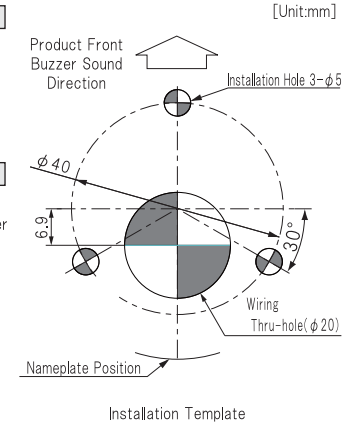
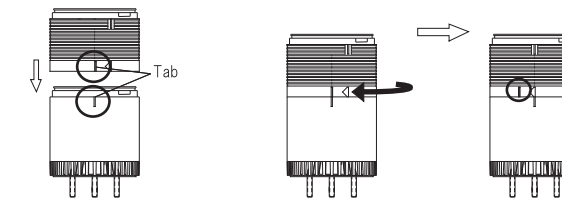
- Do not operate with the head cover or LED unit removed.
- Do not remove the waterproof packing or O-ring. It will have an adverse effect on the waterproof rating.
- The maximum operating condition for this product is three-tier lighting with buzzer. Conditions beyond this will exceed the allowable current (500 mA) load for USB standards.
- Therefore, the maximum operating condition does not allow an extra-stacked Red or Amber LED units (Red-Red-Amber or Red-Amber-Amber Stacking Combinations). The maximum allowable current (500 mA) for the USB may be exceeded.
- Sound Pressure might decrease in an environment where water is splashing.

### 4-1.Base Unit Mounting Instruction

- ①Make a mounting hole where the product will be mounted.  
(Refer to Mounting Hole Dimensional Drawing)
  - ②Fasten all points with nuts and bolts.  
[Recommended Torque: 0.7N-m (Standard)]
- ※Verify the buzzer direction before installation, since buzzer sound pressure changes according to its direction.

### 4-2.LED Unit Mounting Instruction

- ①Align the tab positions and insert it in the direction of the arrow.
- ②Rotate in the direction of the arrow indicated on the LED unit, and turn until the tabs comes together as indicated in the figure.

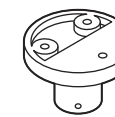


### 4-3.Wiring

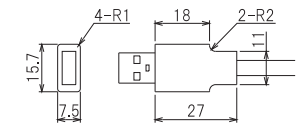
- ①Connect a USB Type B connector to the USB connector socket for this product.
- ②Secure the USB cable with the cable tie included.

### Note

- Do not use USB cables longer than 3 meters. (USB cable is not included)
- If using the optional SZ-50□-U Upper Bracket, refer to the dimensions of the USB connector dimensions to the right, the sides should be small enough to be fed-through to be plugged into the Host (PC, etc.) when installed.



[SZ-50□-U]



[Recommended USB Connector (Type A)]

## 5 Operating Directions

The LED unit lighting and buzzer are controllable, using the sample application (free) or a software library (DLL).

- Sample application : It is used to perform simple operations.
- Software library (DLL) : It is used for creating applications etc. for a customer.

To download the LU7-02S-USB sample application and software library, go to the following URL:

<http://global.patlite.com/>

※Refer to the software Help section for a detailed explanation on how to use.

## 6 Specifications

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Model	LU7-02S(K)-USB		
Rated Voltage	5V DC (USB Bus Power)		
Operating Voltage Range	Rated Voltage $\pm 5\%$ ※ Based on USB2.0 Standard		
Rated Current Consumption	Max. 500mA ※ With load of 3 LED Units and Buzzer sounding		
Operating Ambient Temperature	- 20°C to + 60°C		
Operating Ambient Humidity	Less than 90 % (No condensation)		
Storage Ambient Temperature	- 35°C to + 65°C		
Storage Ambient Humidity	Less than 90 % (No condensation)		
Mounting Location	Indoors		
Mounting Direction	Upright		
Protection Rating	IP65 (IEC 60529)		
Environmental Condition	Mounted in the upright position		
Vibration Resistance IEC 60068-2-6	LED Unit	0 ~ 3Tiers	10m/s <sup>2</sup> , 10 ~ 150Hz
		4 ~ 5Tiers	5m/s <sup>2</sup> , 10 ~ 150Hz
	※Direct Mounting , Wall Mount Bracket (SZ-018□ only)		
Buzzer Frequency	13 Variations		
Buzzer Sound Pattern	5 Patterns		
Sound Pressure Level	80±5dB		
Environmental Condition	Front direction from the center at 1m , DIP Switch : “H” , Buzzer Frequency : 2349.3Hz		
Sound Pressure Adjustable	2 levels with the DIP Switch (Factory Setting : “H”) “H” ↔ “L” : -10dB from “H”		
Lighting Patterns(LU7-E-□)	Four flashing and continuous lighting patterns		
Mass (Tolerance $\pm 10\%$ )	160 g		
Communication Method	USB2.0 Full Speed		
Software Library (DLL) Supported OS	Windows 7 Windows 8(Not including Windows 8 RT) Windows 8.1(Not including Windows 8.1 RT)		
Conformity Standards	FCC Part15 SubpartB Class B EMC Directive (EN 61000-6-2, EN 61000-6-3) RoHS Directive (EN 50581) KC Certification		
Remarks	Conforms to the CE requirements * Cannot connect two or more LED units (LU7-E-□) of the same color. * A maximum of three lighting LED units is allowable (LU7-E-□). (Cannot exceed Four units, or product will malfunction.) * No other LED units (LU7-E-□) can be connected. * Luminous intensity is based on 60% of the standard brightness value of the LED unit (LU7-E-□).		

### [Note]

- This equipment has been tested and found to comply with the limits for a Class B 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.
- Dimensions, specifications and structure are subject to change for improvement without notice.
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