

PATLITE USB Signal Tower / Body Unit
 <TYPE> LR6-3USB□-RYG / LR6-USB□ Instruction Manual [digest version] English

Thank you very much for purchasing our PATLITE products. Read this instruction manual carefully prior to use. This manual is a "digest version", containing information to ensure correct use. Reread this manual when maintenance, inspection, repair or other work is required. If you have any questions about this product, Please contact your PATLITE sales representative listed on the back of this manual.
 - This product requires installation, wiring and other setup work. Always have installation work performed by a professional contractor.
 - Prior to installation, read this manual thoroughly before using this product to ensure correct use.
 - Reread this manual when maintenance, inspection, repair or other work is required. If there are any questions concerning this product, refer to the contact information at the end of this document and contact your nearest PATLITE Sales Representative.
 - For more details on use, download the **Complete Instruction Manual from our homepage.**

Home Page Address www.patlite.com

- To the Contractor
- Read this manual carefully prior to installation.
- If there are any questions concerning this product, refer to the contact information at the end of this document and contact your nearest PATLITE Sales Representative.

-Safety Precautions-

To prevent from personal injury, injury to others or property damage, the following precautions must be observed.

◆ The following symbols classifies the precautions into the following two categories depending on the degree of injury or damage caused by the failure to follow them:

Warning Indicates an imminently dangerous condition: failure to follow the instructions may lead to death or serious injury.
 • Request the installation and wiring to be accompanied by a professional contractor. If installation is done improperly, it may result in fire, electric shock, falling, or malfunction.

Caution Indicates a potentially dangerous condition: failure to follow the instructions may lead to slight injury or property damage.
 • Use a soft cloth dampened with water to clean the product. (Do not use thinner, benzene, gasoline or oil.)

◆ The following symbols classify and describe the content of associated messages.

This symbol identifies "Prohibited" operations that should never be carried out.

This symbol identifies "Mandatory" instructions that should always be carried out.

Warning
 ◇ To prevent electric shock, short-circuit and product damage, observe the following.
 • Turn off the USB power supply when wiring, assembling or removing. There is the danger of burning out the internal circuit, or electric shock due to a short circuit.
 • Use this product properly. (Replace unit if it is damaged.)
 ◇ Request the installation and wiring be performed by a professional contractor if construction work is involved.
 ◇ Set up safety guards, such as combining with other equipment, to prevent injuries or equipment damage caused by misuse or unforeseen operation of this product.

Caution
 ◇ Avoid emitting the buzzer sound at close range. Failure to observe this may lead to irritation or permanent damage to the ears.
 ◇ Do not use this product with the O-ring or waterproof packing removed. Waterproofing will be affected, and potentially cause equipment failure.
 ◇ Do not use this product near fire, in hot or humid environments, or where corrosive or flammable gas is present. Failure to follow this instruction could cause a malfunction and the product may not operate properly.
 ◇ Do not touch the internal connector terminals when attaching or detaching the LED unit. Failure to follow this instruction could result in malfunction.
 ◇ Please do not climb to the equipment etc. by grabbing this product with this product attached to equipment etc. The product may be damaged, leading to falls and falls.

Caution
 ◇ To maintain the dust-proof and waterproof function, use this product with the head cover securely attached.
 ◇ When removing covers or packing from the equipment, which is attached to this product, be careful not to snag the covers and packing on the product. Failure to comply may result in damage to the product.

Notice
 ◇ To use this product with a focus on safety, observe the following.
 • Perform periodic pre-maintenance.
 ◇ When handling this product, and before you start working, discharge the static electricity in your body to prevent static electricity.
 (You can discharge static electricity by touching your hand on grounded metal objects.)
 ◇ To clean this product, wipe with a soft cloth dampened with water.
 (Do not wipe with cleaners containing thinners, benzene, gasoline, or oil.)

◇ For handling the product's accessories, observe the following.
 • Do not disassemble other than removable parts.
 • Do not modify this product.
 • Use only the specified replacement parts listed in the manual [WEB version]

1. Model
 LR6-USBW : Ø60, Body Unit color : Off-white, without LED unit LR6-3USBW-RYG : Ø60, Body Unit color : Off-white, with three tier LED unit (R+Y+G)
 LR6-USBK : Ø60, Body Unit color : Black, without LED unit LR6-3USBK-RYG : Ø60, Body Unit color : Black, with three tier LED unit (R+Y+G)

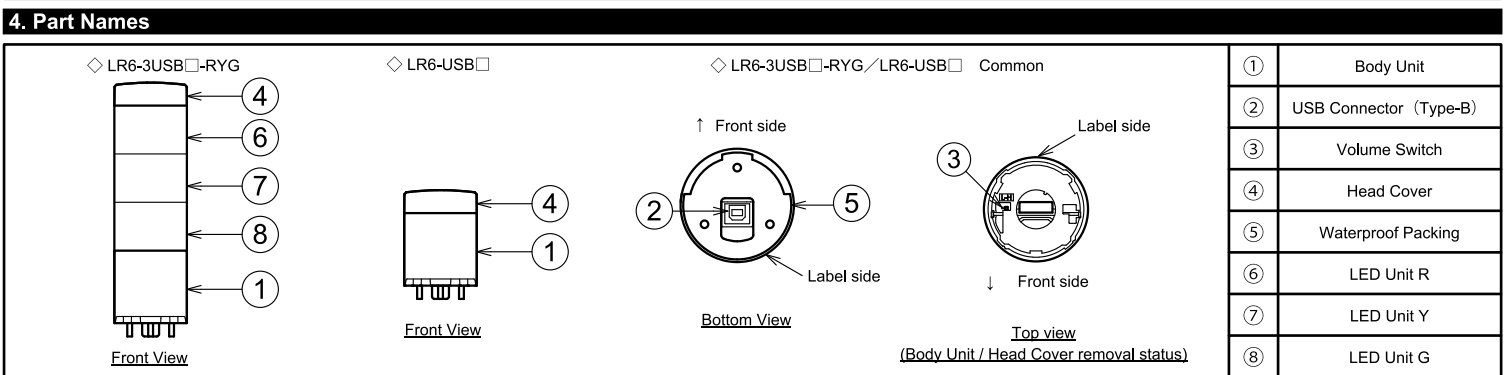
2. Supported LED Unit Models

Name	Model
LED Unit (colored lens)	LR6-E-□ (□ : R, Y, G, B, C)
LED Unit (clear lens)	LR6-E-□Z (□ : R, Y, G, B)
LED Unit (multi-color)	LR6-E-MZ ※ There are two types of LED light patterns

Caution
 ◇ Connect supported LED unit models only. Performance will be reduced, and potentially cause product or units failure.

3. Contents

Product : 1 unit	◇ LR6-3USB□-RYG	◇ LR6-USB□	This manual : 1	Flanged nut (M4) : 3	Cable tie : 1
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5. Wiring and Product Installation
 • Before starting any installation or wiring, always read the instruction manual [WEB version] (download from our web page).
 • Follow the instructions below to attach or detach the LED unit when installing or removing this product.
 • The customer should prepare the USB cable.

Warning
 ◇ Before any work is done, turn off the USB power supply. There is the danger of burning out the internal circuit, or electric shock due to a short circuit.

Caution
 ◇ Do not touch the connectors on the unit or body, or the LED in LED units. Failure to follow this instruction could result in equipment damage.
 ◇ When connecting the USB cable, do not apply excessive force to the connector on this product. Failure to comply may result in damage to the product.
 ◇ Do not use excessive force on the volume switch. Failure to follow this instruction will result in equipment damage.
 ◇ The number of LED units you can mount on one body unit is limited by the LED unit type. Do not attach units beyond that. Performance will be reduced, and potentially cause product failure.
 ◇ Do not apply excessive force to the unit or body. Failure to follow this instruction could result in equipment damage.

Caution
 ◇ When connecting this product to a PC, use a direct connection without any intermediary devices such as a USB hub. Operation may become unstable if you use other devices such as a USB hub.
 ◇ Securely lock each unit when attaching. Failure to follow this instruction could result in equipment damage.

◇ Attach/Detach LED units by the following method. Failure to follow this instruction could result in damage.
 • Attaching Units: Attach units to the body unit one at a time.
 • Detaching Units: Detach units one at a time from the body unit.

Notice
 ◇ The maximum number of attachments per body unit is as follows.
 • LR6-E-□, LR6-E-□Z: The maximum number of these LED units is 5. You cannot connect more than one LED unit of the same color.
 • LR6-E-MZ: The maximum number of this LED unit is 1. When you use this unit, you cannot connect any other units.
 ◇ Use USB cables 3 m or shorter.

◇ Refer to the illustration to the right for the shape/size of the USB cable's Type-B connector for connecting to the body unit.

Attaching LED Units / Detaching LED Units / Connecting USB Cables / Body Unit Installation Dimensions

◇ Attaching LED Units
 • Place the positioning mark of the body unit and the LED unit together, and turn clockwise to lock.

◇ Detaching LED Units
 • While holding the body unit, turn the LED unit counterclockwise to release the lock, and then lift.

◇ Positioning Mark
 <Locked> <Unlocked>
 Positioning Mark

◇ Connecting USB Cables
 • Connect the USB cable to the body unit and secure the USB cable with the cable tie, included. The procedure is as follows.
 ① Connect the USB cable to the body unit.
 ② Secure the connected USB cable with the cable tie.
 ③ Cut any excess from the cable tie.

◇ Body Unit Installation Dimensions (units : mm)
 Front side Installation hole (3-Ø5)
 Ø20 120° 120° Ø40 4~7 (Recommended:4)
 USB cable hole
 Label side
 Recommended torque : 0.6N·m

• Using the software library (DLL), you can control LED units and body unit's buzzer. For details, refer to the instruction manual [WEB version].
 • Download the software library (DLL) and the instruction manual from our website identified at the beginning of this document.

6. Optional Parts

Name	Model	Name	Model
Wallmount Bracket	SZK-003W (Off-white) / SZK-003K (Black)	Aluminum Pole	POLE-□00A21 (Silver) / POLE-□00A21K (Black)
Pole Bracket	SZP-004W (Off-white) / SZP-004K (Black)	Pole Mounting Base	SZ-010 (Silver) / SZ-016A (Silver)
Mounting Bracket	SZW-002W		

7. Specification

Rated Voltage	5V DC (USB bus power)	Mass	LR6-USB□ : 140g LR6-3USB□-RYG : 320g
Operating Voltage Range	Rated voltage ± 5% (Compliant with USB 2.0 standard)	LED unit control	Light on, Light pattern (4 types)
Rated Current Consumption	500mA (maximum)	Buzzer	Sound on, Sound pattern (4 types) Frequency: 13 types Sound pressure: Typ. 80 dB (front direction at 2349.3 Hz), Sound reduction: approximately -10 dB
Ambient Operating Temperature	-20°C to +50°C	Communication Method	USB2.0 Full Speed
Ambient Operating Humidity	90% RH or less, no condensation	Software Library (DLL) supported OS	Windows® 7, Windows® 8 (Excludes Windows® 8 RT), Windows® 8.1 (Excludes Windows® 8.1RT), Windows® 10
Storage Ambient Temperature	-30°C to +60°C	Operation Unit	Volume Switch x 1
Storage Ambient Humidity	90% RH or less, no condensation	Remarks	Conforms to the CE Requirements, UL/cUL Listed
Mounting Location	Indoors		
Mounting Direction	Upright		
Protection Rating	IP65 (IEC 60529) / NEMA TYPE 4X,13		

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 and RSS-Gen of IC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installation.

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- The images in this manual may vary in comparison to the actual product and are only for the purpose of illustration.
- Specifications may change without notice due to continual product improvement.

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