

# **PATLITE** Corporation

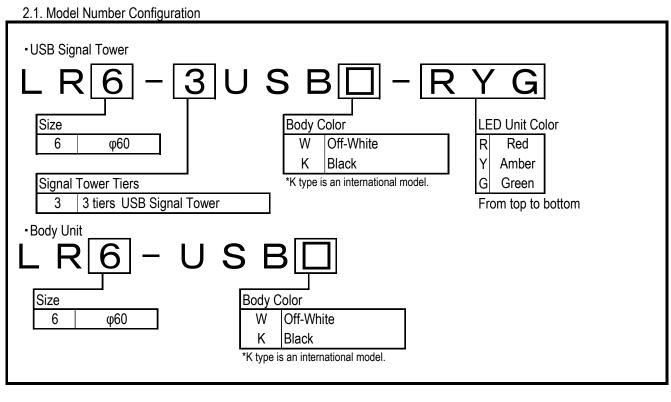
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## 1. General Specifications

Model		LR6-□USB□					
Rated Voltage		5V DC (USB Bus Power)					
Operating Voltage Range		Rated Vo	Rated Voltage $\pm 5\%$ (Compliant with USB 2.0 standard)				
	Consumption Max.	500mA					
Operating Am	bient Temperature		-20°C - +50°C				
Operating A	Ambient Humidity	90% RH or less (No Condensation)					
Storage Amb	pient Temperature		-30°C - +60°C				
	mbient Humidity	90% RH or less (No Condensation)					
Mounti	ing Location	Indoor Only					
	ng Direction	Upright					
	ction Rating	IP 65 (IEC 60529) / NEMA TYPE 4X,13					
Enviro	onmental Condition		Upright				
Supported L	ED Unit(Optional)	LR6-E-□ (□:	=R,Y,G,B,C), LR6-E-□Z (□=R,Y,G,B), LR6-E-MZ				
LED L	Jnit Control		Light On, Pattern On(4 Types)				
	Operation		Sound On, Sound Pattern(4 Types)				
	Frequency		13 Types				
Buzzer	Sound Pressure		dB (Sound Reduction: Approximately -10dB)				
	Environmental	Front	direction from the Buzzer Aperture, at 1m				
	Condition		Buzzer Frequency: 2349.3Hz				
Mass(Tol	erance:±10%)	LR6-l	JSB□:140g LR6-3USB□-RYG:320g				
Outer	Dimensions	F	Refer to the Outer Dimension Drawing				
Communi	ication Method		USB2.0 Full Speed				
Software	e Library(DLL)	Windows 7, Windows 8(Excludes Windows 8 RT),					
Supp	ported OS	Windows 8.1 (Excludes Windows 8 RT), Windows 10					
		UL 60950-1 ,CAN/CSA C22.2 No. UL60950-1-07					
		FCC Part 15 Subpart B Class B					
Conform	nity Standards	ICES-003					
Comon	iity Standards	EMC Directive (EN 61000-6-3, EN 61000-6-2, EN55032 ClassB, EN55024)					
			KC (KN 32, KN 35)				
			RoHS Diredctive (EN 50581)				
Oper	ration Unit	Volume S	witch x1 (Sound Pressure: High/Low 2 Levels)				
Acc	cessories		Flanged Nut(M4) x3, Cable Tie x1				
		Wallmount Bracket	SZK-003				
		Pole Bracket	SZP-004				
(	Option	Aluminum Pole	POLE-□00A21K, POLE-□00A21,				
		Pole Mounting Base	SZ-016A, SZ-010				
		L Bracket	Incompatible				
		Units other than the corresponding LED unit can not be connected.					
Lin	nitations	You cannot connect more than one LED unit(LR6-E-□,LR6-E-□Z) of the same color.					
LIII	Intations	When you use LR6-E-MZ, you cannnot connect any other units.					
		When you use LR6-E-MZ, there are two types of LED light patterns.					
Remark		CE Marking					
		UL/cUL Listed					

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### 2. Model



### 2.2. Model Number List

### 3. Function Specification

3.1 Function overview

	A function for connecting and communicating with the host PC via USB	
USB Comunication Function	cable.	—
	Use software library (DLL).	
LED Unit Control Function	A function for the host PC to control the LED Unit via USB	Refer to
	Control Items: Light on / Light off/ Pattern on	3.2.1
	A function for the host PC to sound the buzzer built into the body unit	Refer to
Buzzer Function	via USB communication.	
	Control Items: Buzzer on / Buzzer off/ Sound Pattern	3.2.2
	A function for changing the buzzer volume via switch on the body unit.	
Buzzer Volume Change Function	r Volume Change Function  • Change Levels : 2 Levels (H : High Volume ∕L : Low Volume)	
	Initial Value : H	

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### 3.2. Function Detail

3.2.1. LED Unit Control Function

•===== •==								
		Light On(On)	Turns the LED Unit on, and keeps it on.					
		Light Off(Off)	Turns off the LED Uit. This is the initial state after the body unit is started.					
		Pattern On	Specify one of four types of LED patterns to illuminate the LED Unit.					
			Operation of LED patterns for one cycle is shown in the following timing charts.					
LED Unit Control		LED Pattern 1	0 (250r		OFF (250msec)		ON (250msec)	OFF (250msec)
		LED Pattern 2	ON (500msec)			OFF (500msec)		
		LED Pattern 3	ON (80msec)	OFF (170msec)	ON (80msec)		OFF (670msec)	
			LED Pattern 4	ON (100msec)		OFF (400msec)		DN Imsec)
		Pattern On	Specify one of two types of LED patterns to illuminate the LED Unit. Operation of LED patterns for one cycle is shown in the following timing charts.					
	*V	Vhen using LR6-E-MZ						
		LED Pattern 1	OFF (100msec)	ON (150msec)	OF (350n	FF nsec)	ON (150msec)	OFF (250msec)
		LED Pattern 2	OFF (100msec)		ON (400msec)		01 (500r	FF nsec)

#### 3.2.2. Buzzer Function

	Sound On	<ul> <li>From 13 different sound pitches, select one for Sound A to emit the buzzer.</li> <li>For the buzzer, select from continuous operation or operate for a specified number of times(1 to 15). Operating one time lasts one second.</li> </ul>								
	Cound Off									
	Sound Off		Stop the buzzer. This is the initial state after the body unit is started. Specify one of four types of buzzer patterns for the buzzer.							
			-	ypes of buzzer pattern zzer pattern by select			ound A and S	ound		
		-		nt sound pitches.	0	X X				
	Sound Pattern	,		attern, select from font	inuous c	perqation or	operate for a			
Buzzer Control		specified	d number	of times(1 to 15). Ope	rating o	ne time is one	e cycle charts	5.		
Buzzer Control		Operation	of buzzer	patterns for one cycle	is show	n in the follow	wing timing cl	narts.		
	Buzzer Pattern 1	Sound A Sound B (250msec) (250msec)			Sound A (250msec)		Sound B (250msec)			
	Buzzer Pattern 2		Sound A (500msec)		Sound B (500msec)					
	Buzzer Pattern 3	Sound A         Sound B         Sound A         Sound B           (80msec)         (170msec)         (80msec)         (670msec)								
	Buzzer Pattern 4	Sound A (100msec)		Sound B (400msec)	Sound A (100msec)		Sound B (400msec)			
	P	Pitch Fre	equency(Ref. Value)	Scale	Frequency(	Ref. Value)				
	(5	Stop)	-	E ♭ 7	2489	.0Hz				
		A6	1760.0Hz	E7	2637	.0Hz				
Sele	E	B ♭ 6	1864.7Hz	F7	2793	.8Hz				
(Sound A		B6	1975.5Hz	G ♭ 7	2960	.0Hz				
,		C7	2093.0Hz	G7	3136					
			0 6 7	2217.5Hz	A ♭ 7	3322				
			D7 2349.3Hz A7 3520.0Hz							

#### [Handling Precautions]

#### About handling this product

• Although this product (including software) is shipped after strict quality control and inspection, if there is any trouble or malfunction, please contact your PATLITE sales representative.

This product (including software) is developed, designed and manufactured assuming general use such as general office work, personal use, ordinary
industry etc. Do not use it for applications requiring high safety such as medical equipment or systems directly or indirectly related to human lives. In
the unlikely event, we will not be liable for any damages or other disadvantages due to being used outside of general purpose or any claims from third
parties.

• The conformity of this product to the system, machine, equipment etc. used by the customer shall be confirmed by the customer confident and the company shall assume no responsibility for conformity of the product with these. Please ensure safety design and proper treatment of the system to be able to cope with misoperation, malfunction, and breakdown of this product thoroughly.

• The Company shall not responsible for any damage, special loss, opportunity loss, lost profit, accident compensation, product other than our products (regardless of whether it is connected to this product or not via a communication line etc.). Regardless of the cost of repairing damages, losses, defects, data losses and defects relating to the product (including personnel expenses, construction costs, transportation expenses, shipping costs, etc., but not limited thereto), the company are not responsible.

 The Company shall exercise its own discretion in updating the Software, for improvement of its functions and features. The Company shall not bear any responsibility whatsoever for any ordinary damage, special damage, loss of opportunity, loss of profit, accident compensation or expenses (including but not limited to expenses for manpower, engineering work, transportation, shipping, etc.) incurred for repair with regard to damage, loss, failure, data loss or defect related to products other than the products of the Company (regardless of whether such products are connected to the Company's products by communication circuit, etc.)

• The Customer shall not engage in any of the following without approval issued by the Company in advance.

\* Copying of the Software

- \* Tampering, integration, reverse engineering, decompiling, disassembly, etc., of the Software
- \* Sublicensing, loan, rental or resale of the Software to a third party
- \* Storage of the Software on a network in a state in which the Software is available for transmission to a third party
- \* Removal of indications of copyright and other rights on the Software

About what we want you to protect for safety

Please keep liquid material such as water and chemicals and foreign matter such as metal like copper iron wire into this product. It may cause electric shock or malfunction.

• Do not drop it or give it a strong shock. It may cause electric shock or malfunction.

- Do not apply strong force to switches or buttons for setting or operating this product. It will be the cause of the failure.
- About installation
- Be sure to turn off the power when conducting wiring and inspection and repair. It will be the cause of the failure.
- Please do not install near fire or hot and humid place. Also, please do not install in places where corrosive gas or flammable gas is generated.
- Please do not install in an unstable place. Failure to do so may cause injury or malfunction.
- Since this product is for indoor use only, please install it indoors.
- Avoid the following places when installing this product.
- \* Places exposed to direct sunlight
- \* Near fire or hot and humid place
- \* Places where the temperature change is severe and condensation occurs
- \* Breathable, poorly ventilated place
- \* Places where vibration is directly transmitted to this machine
- \* Places where corrosive gas is generated
- \* Places that are exposed to sea breeze
- \* Near the object where strong magnetic field occurs
- \* Places where dust, iron powder etc. occurs
- $\boldsymbol{*}$  Chemicals, places where oil mist occurs
- About maintenance

• Do not wipe with volatile chemicals such as benzine, thinner, etc. or chemical wiping cloth as it may cause alteration.

- Clean the unit with a dry, soft cloth.
- If the dirt does not come off, wipe it down firmly with a cloth moistened with water.

