

PATLITE Corporation

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LR6-USBW-W18	F	2 / 7

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)				
Rated Current Consumption Max.			500mA				
Operating Ambient Temperature		-20°C - +50°C					
	Ambient Humidity	90% RH or less (No Condensation)					
Storage Amb	pient Temperature		-30°C - +60°C				
¥	mbient Humidity	90% RH or less (No Condensation)					
	ing Location	Indoor Only					
	ing Direction	Upright					
	ction Rating	IP 65 (IEC 60529) / NEMA TYPE 4X,13					
	onmental Condition		Upright				
	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				
	lerance:±10%)		JSB□:140g LR6-3USB□-RYG:320g				
	Dimensions	Refer to the Outer Dimension Drawing					
	ication Method	USB2.0 Full Speed					
	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					
		EMC Directive (EN 61000-6-3, EN 61000-6-2, EN55032 ClassB, EN55035)					
			KC (KN 61000-6-2 /6-4)				
	<i>a</i> 11 <i>a</i>	RoHS Directive (EN IEC 63000)					
	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-000A21K, POLE-000A21,				
		Pole Mounting Base	SZ-016A, SZ-010				
		L Bracket					
		Mounting Bracket	SZW-002W				
		Units other than the corresponding LED unit can not be connected.					
Limitations		You cannot connect more than one LED unit(LR6-E- \Box ,LR6-E- \Box Z) of the same color.					
		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			L, there are two types of LED light patterns.				
		CE Marking					
		UL/cUL Listed					
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2. Model



2.2. Model Number List

3. Function Specification

3.1 Function overview

USB Comunication Function	A function for connecting and communicating with the host PC via USB cable. Use software library (DLL).	_
LED Unit Control Function	A function for the host PC to control the LED Unit via USB Control Items: Light on / Light off/ Pattern on	Refer to 3.2.1
Buzzer Function	A function for the host PC to sound the buzzer built into the body unit via USB communication. Control Items: Buzzer on / Buzzer off/ Sound Pattern	Refer to 3.2.2
Buzzer Volume Change Function	 A function for changing the buzzer volume via switch on the body unit. 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 LE	D Unit o	on, and keeps it on.			
		Light Off(Off)	Turns off the LED Unit. 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 Pattern 1	ON (250mse	c)	OFF (250msec)	ON (250ms	ec)	OFF (250msec)
		LED Pattern 2	ON (500msec)			OFF (500msec)		
LED Unit Control		LED Pattern 3	ON OFF ON (80msec) (170msec) (80msec)		OFF (670msec)			
			LED Pattern 4	ON (100msec)		OFF (400msec)	ON (100msec)	
		Pattern On	Specify one	of two ty	/pes of LED patterns	to illuminate	the LED Un	iit.
	*۷	Vhen using LR6-E-MZ	Operation of	LED pa	tterns for one cycle	s shown in th	e following	timing charts.
		LED Pattern 1	OFF (100msec) (15	ON Omsec)	OFF (350msec)	(1	ON 50msec)	OFF (250msec)
		LED Pattern 2	OFF (100msec)		ON (400msec)		OFF (500mse	c)

3.2.2. Buzzer Function

	Sound On	 From 13 different sound pitches, select one for Sound A to emit the buzzer. For the buzzer, select from continuous operation or operate for a specified 								
		number of times(1 to 15). Operating one time lasts one second.								
	Sound Off	Stop the b	Stop the buzzer. This is the initial state after the body unit is started.							
		Specify or	ne of four t	ypes of buzzer pattern	ns for the	e buzzer.				
		· Config	gure the bu	zzer pattern by select	ing two	sounds(for So	ound A and S	ound		
	0 10 11	B) from	n 13 differei	nt sound pitches.	-					
	Sound Pattern	,		attern, select from font	inuous o	opergation or	operate for a			
			-				-			
Buzzer Control			specified number of times(1 to 15). Operating one time is one cycle charts. Operation of buzzer patterns for one cycle is shown in the following timing charts.							
		O annual A		Sound B	Sound A		Sound B			
	Buzzer Pattern 1	(250msec) (250msec)		(250msec)	(250msec) (250msec)			c)		
	Buzzer Pattern 2	Sound A			Sound B					
		(500msec) (500msec)								
	Buzzer Pattern 3	Sound A Sound B Sound A Sound B								
		(80msec) (170msec) (80msec) (670msec)								
	Buzzer Pattern 4	Sound A		Sound B	Sound A		Sound B			
		(100msec)		(400msec)	(100msec)		(400msec)			
				equency(Ref. Value)	Scale					
					E ∳ 7		0.0Hz			
Solo	-	A6 B ♭ 6	<u>1760.0Hz</u> 1864.7Hz	E7 F7		7.0Hz 8.8Hz				
	Select Pitch (Sound A, Sound B)			1975.5Hz	г/ G b 7		0.0⊓2).0Hz			
				2093.0Hz	G7		6.0Hz			
		D 7	2217.5Hz	A ♭ 7	3322	2.4Hz				
			D7	2349.3Hz	A7	3520).0Hz			

[Handling Precaution]

◆About handling this product

• This product (including software) is shipped only after undergoing strict quality controls and inspections. However, should you encounter any issues, please contact your PATLITE sales representative.

• This product (software is included) is for the use of general office work, home and for personal use, it has been developed, designed and manufactured for general applications, such as for industry, and it is not designed for applications which demands high safety requirements, such as equipment or systems used in connection directly, or indirectly, with human life. Understand prior to use, that no responsibility is taken at our company for damages or other disadvantages, due to customers using this product beyond the scope of its general application, or from any claims from third parties. When using this product for applications in which equipment of higher reliability than the general application demands, such as a computer system, etc., use suitable safety design countermeasures against system failure, etc.

• The suitability of this product in the system, with other machines and equipment, shall be tested and confirmed by the customer. We assume no responsibility regarding this. Design safety into the system to cope with misoperation, misuse, going offline, and other unforeseen operation of this product.

• We bear no responsibility for damages, lost opportunities, lost profits, compensation for accidents, or other costs including but not limited to personnel, construction, transportation, and shipping costs, related to using this product. We bear no responsibility for defects in other products, regardless of the other product's connection to this product (such as a communication line), or for the cost of repairing damages, losses, defects, or recovering lost data related to using the other products, including but not limited to personnel, construction, transportation, and shipping costs.

• To improve the functionality in the software for this product, we will update the software at our own discretion. We bear no responsibility for the results of software updates, such as damages, lost opportunities, lost profits, compensation for accidents, or other costs including but not limited to personnel, construction, transportation, and shipping costs, related to using this product. We bear no responsibility for defects in other products, regardless of the other product's connection to this product (such as a communication line), or for the cost of repairing damages, losses, defects, or recovering lost data related to using other products, including but not limited to personnel, construction, transportation, and shipping costs.

• Note the following statements regarding the software for this product, which require prior written consent from PATLITE:

* Do not duplicate the software for this product.

- * Do not alter, combine, reverse-engineer, decompile, or disassemble the software for this product.
- * Do not license, rent, or resell the software for this product to a third party.
- * Do not store the software of this product on a network so it can be transmitted to a third party.
- * Do not remove the copyright notice or other trademark and company rights attached to the software for this product.

Things you should always do for your safety

• Avoid spilling liquids (such as water or chemicals) into this product. Avoid dropping foreign metallic objects (such as copper wire) into this product. Failure to follow these instructions could result in electric shock or equipment damage.

- Do not drop or hit this product. Failure to follow these instructions could result in electric shock or equipment damage.
- Do not apply too much force to switches and buttons on this product. Failure to follow this instruction could result in equipment damage.

Installation

• Turn off the power when wiring, inspecting, or repairing this product. Failure to follow this instruction could result in equipment damage.

• Do not install in locations near fire, or environments with high temperature and humidity. Do not install this product where corrosive or flammable gas is present.

- Do not install on an unstable surface. Failure to follow these instructions could result in injury or equipment damage.
- This product is rated for indoor use only. Please install and use this product indoors only.
- Avoid the following locations for installation of this product.
- * Places exposed to direct sunlight.
- * Places near fire or environments with high temperatures and humidity.
- * Environments where temperature changes are severe, and where there is condensation.
- * Environments with poor breathability and ventilation.
- * Places where external vibrations are directly transmitted to this product.
- * Environments where corrosive gas is present.
- * Locations exposed to salty sea air.
- * Locations near strong magnetic fields.
- * Environments where there is dust, iron powder, and so on.
- * Environments where chemicals and oil mist are present.

About maintenance

• Do not clean this product with volatile chemicals such as benzine or thinners, or with chemical wiping cloths as it could damage the product.

- Please clean this product with a soft, dry cloth.
- If the dry cloth is unable to clean off any dirt and grime, wipe the product firmly with a slightly water-moistened cloth.



