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SPECIFICATIONS

Product Name: USB Signal Tower / Body Unit

Model: LR6-3USB□-RYG / LR6-USB□

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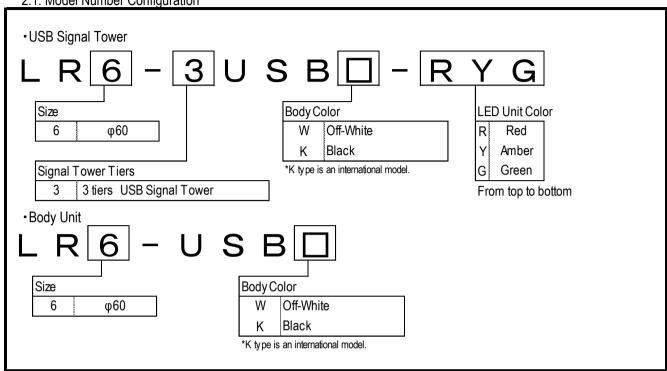
1. General Specifications

	Model	LR6-□USB□					
Rate	ed Voltage	5V DC (USB Bus Power)					
Operating	Voltage Range	Rated Vo	Itage ±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				
Storage Ar	mbient Humidity		90% RH or less (No Condensation)				
Mounti	ing Location		Indoor Only				
Mounti	ng Direction		Upright				
Protec	ction Rating	IF	P 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 (Jnit Control		Light On, Pattern On(4 Types)				
	Operation		Sound On, Sound Pattern(4 Types)				
	Frequency		13 Types				
Buzzer	Sound Pressure	Typ. 80	dB (Sound Reduction: Approximately -10dB)				
	Environmental		direction from the Buzzer Aperture, at 1m				
	Condition		Buzzer Frequency: 2349.3Hz				
Mass(Tol	lerance:±10%)	LR6-l	JSB□:140g				
	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),					
	oorted OS		s 8.1(Excludes Windows 8 RT), Windows 10				
			950-1 ,CAN/CSA C22.2 No. UL60950-1-07				
			FCC Part 15 Subpart B Class B				
			ICES-003				
Conform	nity Standards	EMC Directive (EN 61000-6-3, EN 61000-6-2, EN55032 ClassB, EN55035)					
		KC (KN 61000-6-2 /6-4)					
		RoHS Directive (EN IEC 63000)					
Opei	ration Unit	Volume S	witch x1 (Sound Pressure: High/Low 2 Levels)				
	cessories		Flanged Nut(M4) x3, Cable Tie x1				
		Wallmount Bracket SZK-003 ☐					
		Pole Bracket	SZP-004□				
		Aluminum Pole	POLE-□00A21K, POLE-□00A21,				
(Option	Pole Mounting Base	SZ-016A, SZ-010				
		L Bracket	Incompatible				
		Mounting Bracket	SZW-002W				
			esponding LED unit can not be connected.				
			e than one LED unit(LR6-E-□,LR6-E-□Z) of the same color.				
Limitations		When you use LR6-E-MZ, you cannot connect any other units.					
		When you use LR6-E-MZ,there are two types of LED light patterns.					
		Conforms to the CE Requ					
		Conforms to the UKCA Requirements					
		UL/cUL Listed					
R	Remark						

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2. Model

2.1. Model Number Configuration



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

• · · · · · · · · · · · · · · · · · · ·	•	Onli Orr unction								
		Light On(On)	Turns the	Turns the LED Unit 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.							
		T attern On	Operation	of LED pa	itterns for	one cycle is	shown in the following timing charts.			
		LED Pattern 1)N msec)		OFF Omsec)		ON Omsec)	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)		OFF (400msec)	
		Pattern On	Specify or	ne of two ty	pes of LE	D patterns	to illumina	ate the LED	Unit.	
	*۷	Vhen using LR6-E-MZ	Operation of LED patterns for one cycle is shown in the following timing charts.						ng timing charts.	
		LED Pattern 1	OFF (100msec)	ON (150msec)		OFF (350msec)		ON (150msec)	OFF (250msec)	
		LED Pattern 2	OFF (100msec)		ON (400msec)				FF msec)	

3.2.2. Buzzer Function

**************************************	unction								
	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	This is the initial state aft	er the bo	ody unit is sta	irted.				
	Specify one of four types of buzzer patterns for the buzzer.								
		·Conf	figure the	e buzzer pattern by select	ing two	sounds(for So	ound A and S	Sound	
	0 15 "		•	erent sound pitches.	Ū	,			
	Sound Pattern	,		d pattern, select from font	inuous d	ppergation or	operate for a	ı	
				ber of times(1 to 15). Ope			•		
Buzzer Control				zer patterns for one cycle	•		•		
	D D " 4		ound A	Sound B	Sound A		Sound F		
	Buzzer Pattern 1	(250msec)		(250msec)	(250msec)		(250mse		
	Duzzer Dettern 2			Sound A					
	Buzzer Pattern 2		(500msec)				(500msec)		
	Buzzer Pattern 3	Sound A	Sound I			Sound B			
	Buzzer r attern o	(80msec)	(170mse	c) (80msec)		(670msec)			
	Buzzer Pattern 4	Sound A (100msec)		Sound B	Sound A		Sound B		
	Buzzoi i attoiii i	(TOUMSec)		(400msec)	(100msec)		(400msec)		
			Pitch (Stop)	Frequency(Ref. Value)	Scale	Frequency(
	Select Pitch			- 4700 011	E ♭ 7	2489			
Solor				1760.0Hz 1864.7Hz	E7 F7	2637 2793		ļ	
			B ♭ 6 B6	1864.7Hz 1975.5Hz	G b 7	2793 2960		}	
(Sound A	, Sound B)		C7	2093.0Hz	G7	3136			
			D b 7	2217.5Hz	A b 7	3322			
			D7	2349.3Hz	A7	3520	.0Hz		

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[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.

