

# PRISM SE SERIES

## User Manual

### Foreword

Thank you for purchasing the SGC Prism SE Series LED Light.

**For non-user replaceable light sources:**

The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person. Shields, lenses or ultraviolet screens shall be changed if they have become visibly damaged to such an extent that their effectiveness is impaired, for example by cracks or deep scratches.

The luminaire is intended for professional use only.

### Instructions

Please read this user manual carefully.

This user manual is designed to be sturdy for long term usage. Include this manual when passing the product on to third parties.

Beware of warnings listed and follow instructions for optimal usage and product life.

**Warning:** Do not leave product unattended in surrounding with excessive heat, humidity and other harmful elements.

Do not use corrosive chemicals for cleaning the product.

Operate carefully to not cause damage by dropping the product or hitting other objects with it.

Always seek an authorized service or agent if your product has problems. Please note that the warranty does not apply to repair(s) arising out of third party or unauthorised disassembly, although you may request such repairs on a chargeable basis.

We strongly recommend using cables provided by SGC and any malfunctions or damages caused by third party cables will not be covered by the warranty.

The instructions and information in this manual are based on thorough, controlled company testing procedures. Designs and product specifications may change without notice.

### Intended Use

Intended use of the SGC Prism SE LED Lights includes:

The user has read the instructions of this manual.

The user is using the products within the operating conditions and limitations described in this manual.

Improper use means using the product(s) other than as described in this manual or under conditions that differ from those described herein.

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### Package Contents

1x Prism SE 60 OR Prism SE 120 tube type LED lamp

1x SGC replaceable Li-Ion 16000mAh capacity Battery Pack

1x AC Power Supply

1x Lamp Holder

1x Carrying Case

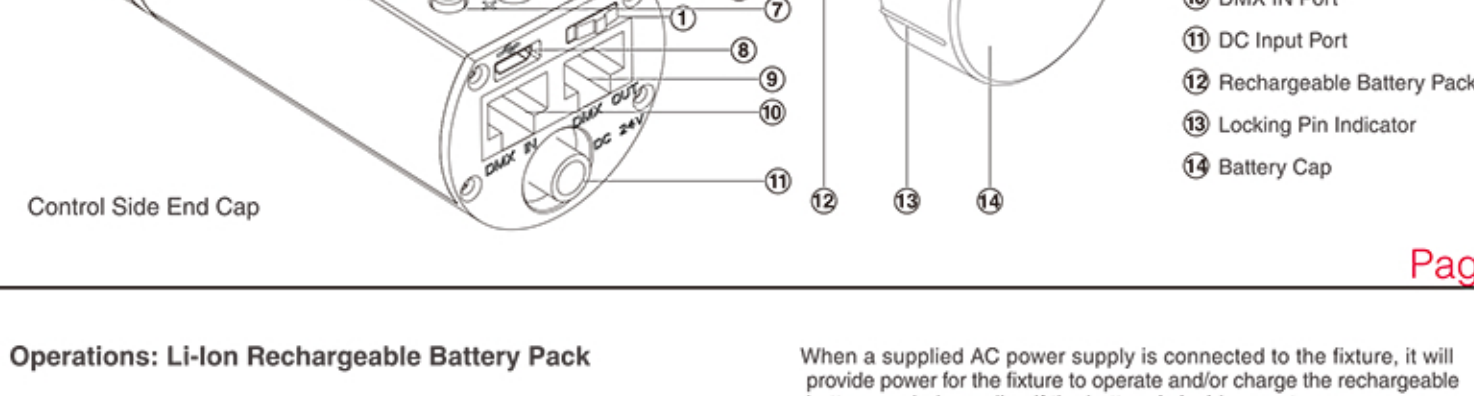
1x User Manual

### Product Specifications

Models	Prism SE 60	Prism SE 120
Optics	White Diffuser	
Beam Angle	150°	
Color Temp.	2700-6500K	
Color Temp. Tolerance	±100K	
Color Accuracy Standard	CRI>95, TLCI>95	
Hue	0-360°	
Saturation	0-100%	
Power Input Range	DC 24V ~ 1.58A	DC 24V ~ 2.3A
LED Voltage	18V	36V
Max Voltage	38V	55W
Power Port	DC input, 2.5"5.5mm barrel connector	
Lumens (E6000K)	2300lm	4600lm
Dimming	0-100%	
Software Interface	On-board Controller with Display	
IP Rating	IP50	
Operational Temp.	-20 ~ 40°C	
Fixture Dimensions	Ø44.5"656mm	Ø 44.5"1212mm
Fixture Weight	0.75kg	1.1kg
Battery Capacity	18V/3200mAh, 57.6WH	18V/3200mAh, 57.6WH
Battery Pack Charge Life	Expected battery pack capacity after 300 charging cycles: >70%	
Expected Lamp Life	25000 Hours	
Controls	Manual on-board control, wired/wireless DMX, Wireless Remote Controller (optional)	

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### Functional Description



Control Side End Cap

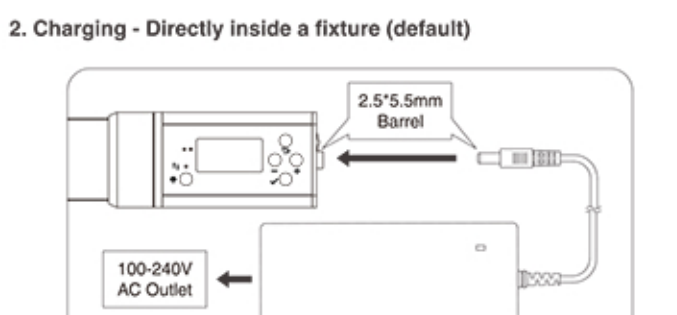
Battery Side End Cap

- Power Switch
- Soft Switch Button
- Menu Screen
- Return Button
- Minus/Left Button
- Plus/Right Button
- Confirm Button
- Micro USB Update Port
- DMX OUT Port
- DMX IN Port
- DC Input Port
- Rechargeable Battery Pack
- Locking Pin Indicator
- Battery Cap

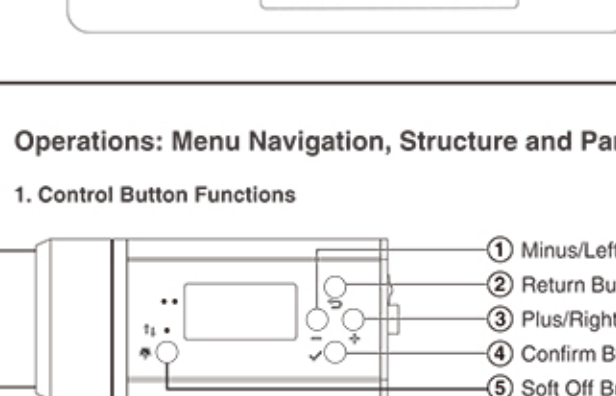
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### Operations: Li-Ion Rechargeable Battery Pack

#### 1. Removing and Inserting of Battery Pack



#### 2. Charging - Directly inside a fixture (default)



When a supplied AC power supply is connected to the fixture, it will provide power for the fixture to operate and/or charge the rechargeable battery pack depending if the battery is inside or not.

When to hold down the soft switch button for 3 seconds, the display interface will jump to the battery display interface. The previous screen will be returned in 3 seconds.

Solid battery icon with bars: current Battery Level.

Flashing empty battery icon: the battery has less than 5% charge remaining and needs to be charged.

Displays the charging text under the power icon while charging.

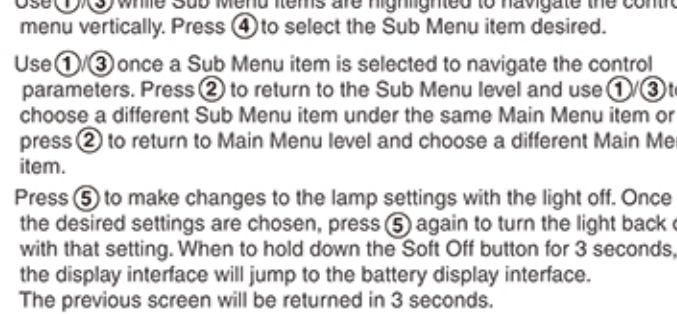
#### 3. Charging - Using an external battery charger (optional)

An optional external battery charger can be purchased to charge additional battery packs separately.

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### Operations: Menu Navigation, Structure and Parameters

#### 1. Control Button Functions



Use while Main Menu items are highlighted to navigate the control menu horizontally. Press to select the Main Menu item desired.

Use while Sub Menu items are highlighted to navigate the control menu vertically. Press to select the Sub Menu item desired.

Use once a Sub Menu item is selected to navigate the control parameters. Press to return to the Sub Menu level and use to choose a different Sub Menu item under the same Main Menu item or press to return to Main Menu level and choose a different Main Menu item.

Press to make changes to the lamp settings with the light off. Once the desired settings are chosen, press again to turn the light back on with that setting. When to hold down the Soft Off button for 3 seconds, the display interface will jump to the battery display interface.

The previous screen will be returned in 3 seconds.

#### 2. Control Menu Listing

Main Menu	Sub Menu	Parameters	Description
Cntrlol	CCT	DIM	0-100%
		CCT	2700-6500K
		+/- Green	100M-100G
	HSI	DIM	0-100%
		HUE	0-359°
		SAT	0-100%
PRESET	DIM	Preset Color	3200K, 4000K, 5600K, 6000K, Red, Green, Blue, Magenta, Yellow, Orange

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Main Menu	Sub Menu	Parameters	Description
Cntrlol	FX	DIM	0-100%
		Effect	ainbow1.Rainbow2. Circuit.Flashes. Fire1.Fire2.Fire3. Cop1.Cop2.Cop3. Demo.TV.Lighting
		Speed	0-100%
Comm	Leads	Lesd/Follow	L/F
		Groups	1-24
	2.4G	Status	ON/OFF
		ID	1-255
	WIREDNIX	Channel	1-100
		Status	ON/OFF
	BT	Address	001-512
		DMX Profiles	P1-P7
	WIFI	Status	ON/OFF
		Preset	ON/OFF

Main Menu	Sub Menu	Parameters	Description
Comm	WDMX512	Status	ON/OFF
		ID	1-255
		Channel	1-100
		Address	001-512
SET	INFO	DMX Profiles	P1-P7
		Language	EN/ 中文
		Version	0.2.0
		Reset	NO/YES
DIMMING	LOW DIMMING	LOW DIMMING	ON/OFF

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#### 3a. Setting up for remote control using Bluetooth

Enter the main menu **BT** and the status will automatically show On.

Use Reset to link the device with a new smart phone or a tablet.

Download Sidus Link app on a smart phone or a tablet and register.

Please make sure Bluetooth is turned on on the mobile device before start using the app to remotely control the lights.

Please refer to Sidus Link instruction manuals for detailed control parameters. Using the Sidus Link APP you can download the Sidus Link app from the iOS App Store or Google.

Play Store for enhancing the functionality of the light. Please visit sidus.link/app/help for more details regarding how to use the app to control your Aperture lights.

#### 3b. Setting up remote control using Wireless DMX or Master/Slave mode

Master/Slave mode is where a light can be set as a Master and control a group of additional lights set to Slave, which mimic the behavior of the Master light.

Wireless DMX: To use a DMX controller with wireless DMX capability to control the lights remotely, enter the main menu **SET**, and set Master/Slave to Off. Enter the Wired DMX sub menu, set the Status to On, and choose a desired DMX address. Please refer to pages 8-10 of this User Manual for available DMX profiles. In order to add more lights to be controlled individually using the same wireless DMX controller, a different DMX address needs to be entered that is at least 10 numbers apart.

Wireless Master/Slave: In order to create groups of lights that behave the same under a single channel that is controlled by a DMX controller, wired Master/Slave mode can be set up.

1. Enter the main menu **SET** and check the status of Master/Slave. If it is set to On, the light is set as a Master. If it is set to Off, the light is set as a Slave. Start by setting a light as a Master.

2. Enter the sub menu **Wireless DMX** and set the Status to On, and choose a desired DMX address. Please refer to pages 8-10 of this User Manual for available DMX profiles.

#### 3c. Setting up remote control using Wired DMX or Master/Slave Mode

Wired DMX: To use a DMX controller to control the lights remotely using the RJ45 ports, enter the main menu **SET**, and set Master/Slave to Off. Enter the Wired DMX sub menu, set the Status to On, and choose a desired DMX address. Please refer to pages 8-10 of this User Manual for available DMX profiles.

4a. For indoor use only.

4b. The lamp shall be changed if it has become damaged or thermally deformed

4c. 5 meter/0.5mm2 is the maximum distance between power supply and LED tube light. Independent SELV LED driver. 24V is the highest allowed UoD value of power supply.

4d. The reinforced insulation or double insulation has been maintained between LV supply and DMX control conductors.

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### DMX Profiles and Parameters

P1: HSI - 8bit, 5 DMX Channels				
Channel	Function	8bit Value	Actual Value	Note
1	Intensity	0-255	0-100%	
2	Color Temp.	0-255	2700-6500K	
3	+/- Green	0-10	0-4%	No effect
		11-20	5-8%	Full minus green
		21-119	9-46%	-99 ~ -1% green
		120-145	47-57%	Neutral
		146-244	57-96%	+1 ~ +99% green
		245-255	96-100%	Full plus green
4	Hue	0-255	0-359°	
5	Saturation	0-255	0-100%	

P2: HSI - 16bit, 7 DMX Channels				
Channel	Function	8bit Value	Actual Value	Note
1/2	Intensity	0-65535	0-100%	
3	Color Temp.	0-255	2700-6500K	
4	+/- Green	0-10	0-4%	No effect
		11-20	5-8%	Full minus green
		21-119	9-46%	-99 ~ -1% green
		120-145	47-57%	Neutral
		146-244	57-96%	+1 ~ +99% green
		245-255	96-100%	Full plus green
5/6	Hue	0-65535	0-359°	
7	Saturation	0-255	0-100%	

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P3: HSI - 8bit, 3 Channels				
Channel	Function	8bit Value	Actual Value	Note
1	Intensity	0-255	0-100%	
2	Hue	0-255	0-359°	
3	Saturation	0-255	0-100%	

P5: CCT - 8bit, 2 Channels				
Channel	Function	8bit Value	Actual Value	Note
1	Intensity	0-255	0-100%	
2	Color Temp.	0-255	2700-6500K	

P4: CCT - 8bit, 3 Channels				
Channel	Function	8bit Value	Actual Value	Note
1	Intensity	0-255	0-100%	
2	Color Temp.	0-255	2700-6500K	
3	+/- Green	0-10	0-4%	No effect
		11-20	5-8%	Full minus green
		21-119	9-46%	-99 ~ -1% green
		120-145	47-57%	Neutral
		146-244	57-96%	+1 ~ +99% green
		245-255	96-100%	Full plus green

P6: RGB - 8bit, 3 Channels				
Channel	Function	8bit Value	Actual Value	Note
1	Red	0-255	0-100%	
2	Green	0-255	0-100%	
3	Blue	0-255	0-100%	

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P7: CCT & RGB - 8bit, 6 DMX Channels				
Channel	Function	8bit Value	Actual Value	Note
1	Intensity	0-255	0-100%	
2	Color Temp.	0-255	2700-6500K	
3	+/- Green	0-10	0-4%	No effect
		11-20	5-8%	Full minus green
		21-119	9-46%	-99 ~ -1% green
		120-145	47-57%	Neutral
		146-244	57-96%	+1 ~ +99% green
		245-255	96-100%	Full plus green
4	Red	0-255	0-100%	
5	Green	0-255	0-100%	
6	Blue	0-255	0-100%	

P8: CCT & RGB - 16bit, 10 DMX Channels				
Channel	Function	8bit Value	Actual Value	Note
1/2	Intensity	0-65535	0-100%	
3	Color Temp.	0-255	2700-6500K	
4	+/- Green	0-10	0-4%	No effect
		11-20	5-8%	Full minus green
		21-119	9-46%	-99 ~ -1% green
		120-145	47-57%	Neutral
		146-244	57-96%	+1 ~ +99% green
		245-255	96-100%	Full plus green
5/6	Red	0-65535	0-100%	
7/8	Green	0-65535	0-100%	
9/10	Blue	0-65535	0-100%	

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FX Profile 9 HSI-CX-FX - 8 Bit 5 DMX Channels per Pixel + 3 FX Channels					
Channel	Function	Value	Percentage	Note	Default % / DMX
1	Intensity	0-255	0-100		0
2	Color Temp.	0-255	0-100	3200K / 045	1750K to 10,000K
3	+/- Green			50% / 128	SEE GREEN TABLE
4		Hue	0-255	0 to 360	0° to 360°
5		Saturation	0-255	0-100	0
6		FX			SEE FX TABLE
7		FX Rate		100%/128	SEE FX RATE TABLE
8	FX Size	0-255	0-100%	0	

FX Profile 10 HSI-CX-FX - 16 Bit 8 DMX Channels per Pixel + 3 FX Channels					
Channel	Function	Value	Percentage	Note	Default % / DMX
1/2	Intensity	0-65,535	0-100		0
3	Color Temp.	0-255	0-100	3200K / 255	1750K to 10,000K
4	+/- Green			50% / 128	SEE GREEN TABLE
5/6		Hue	0-65,535	0 to 360	0° to 360°
7/8		Saturation	0-65,535	0-100	0
9		FX			0
10		FX Rate		100%/128	SEE FX RATE TABLE
11	FX Size	0-255	0-100%	0	

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9	FX Rate			100%/128	SEE FX RATE TABLE
10	FX Size	0-255	0-100%	0	

+/- Green Table					
Channel	Function	Value	Percentage	Description	Default DMX
Channel #	+/- Green			Plus and Minus Green	50%
		0-10	0-4	No Effect	
		11-20	5-8	Full Minus Green	
		21-119	8-46	-99% to -1%	
		120-145	47-57	Neutral	