NANLITE

Alien 150C/300C

USER MANUAL

Version: V1.0
2024-08-13

Guangdong Nanguang Photo&Video Systems Co., Ltd.

WWW.NANLITE.COM

Revision History

Version	Date (Y-M-D)	Note
V1.0	2024-08-13	First Release

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1. Introduction

Thank you for purchasing Nanlite product -- Alien 150C/300C!

The Alien 150C/300C are RGBWW full-color panel lights that stand out in interviews , film and commercial productions.

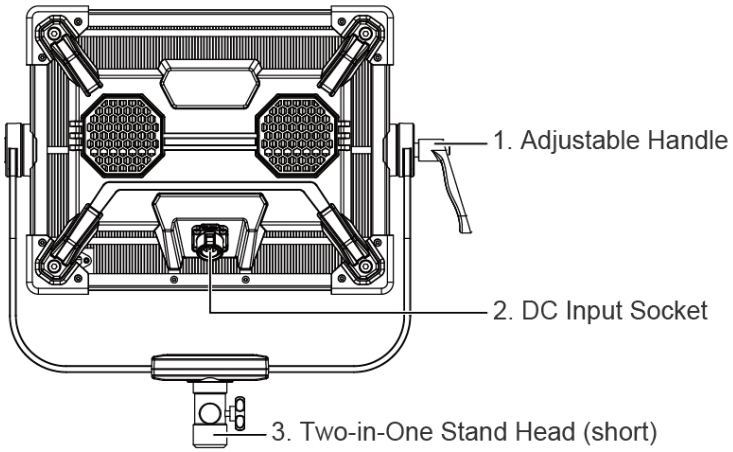
They are engineered with six built-in lighting modes: CCT, HSI, RGBW, XY, GEL, EFFECT, enabling precise dimming in 0.1% increments, a CCT range of 2700K-12000K, and G/M ±150 adjustment, empowering comprehensive creativity. They can be powered by AC/DC power or 14.4V-14.8V/26-28V batteries. Their multiple control options including on-board, remote controller, Nanlink App, DMX/RDM and LumenRadio CRMX, meeting professional-grade lighting control needs. With an IP55 rating lamp head and an included rain cover for the control unit, they stand ready to face harsh weather conditions.

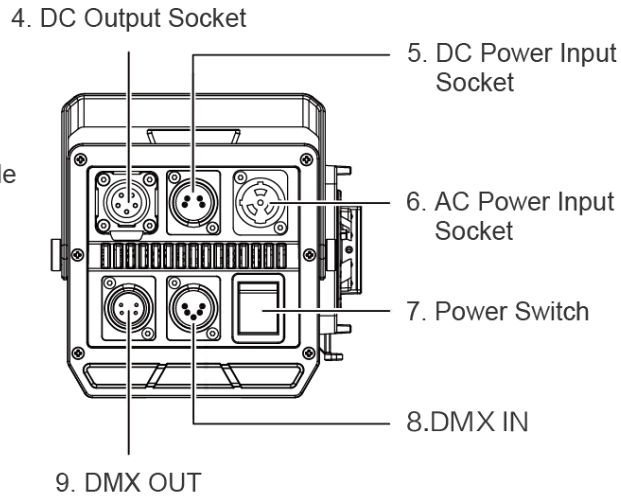
It is worth mentioning that the Alien 150C/300C adopt a brand new interactive design, providing a more intuitive and seamless control experience.

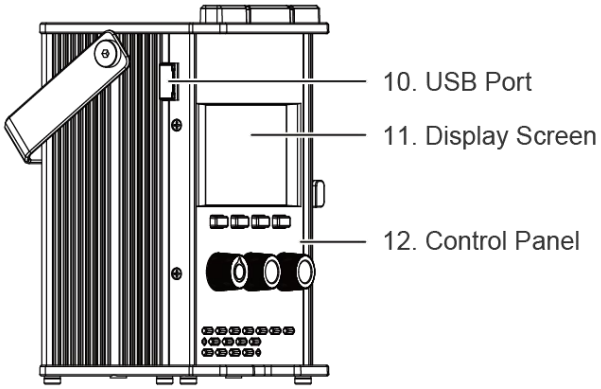
2. Product Overview

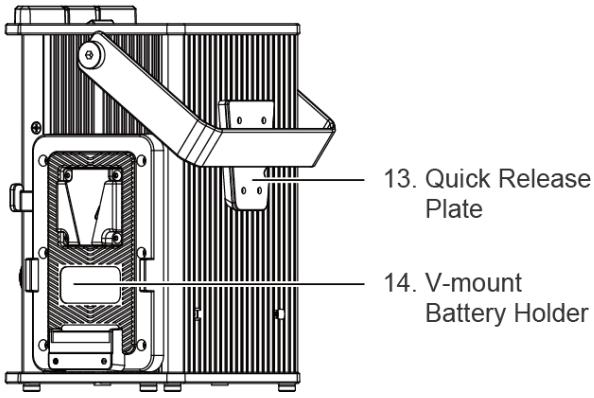
2.1. Product Layout

Model Name: Alien 150C

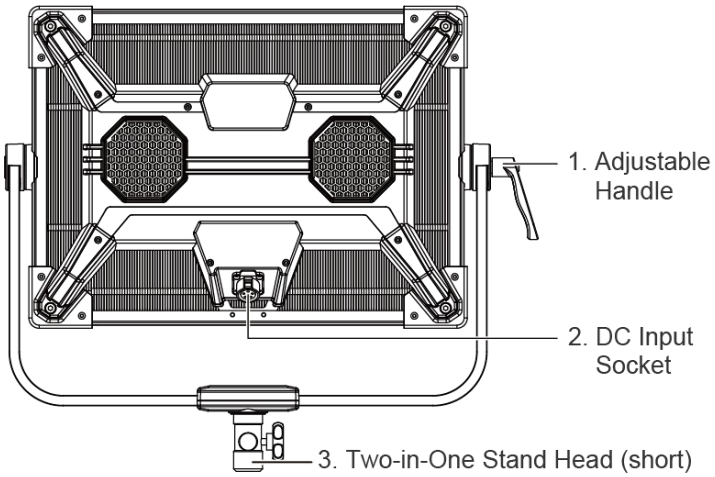


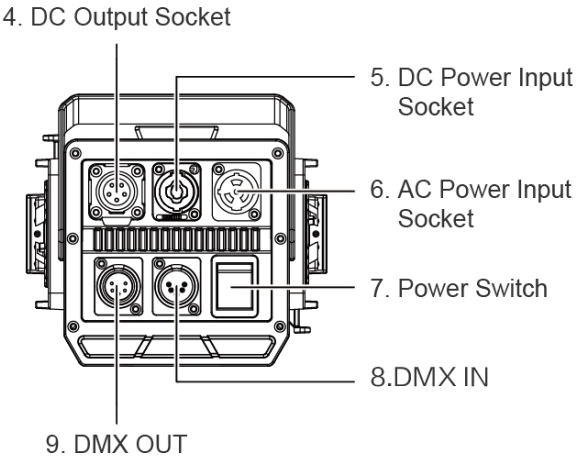


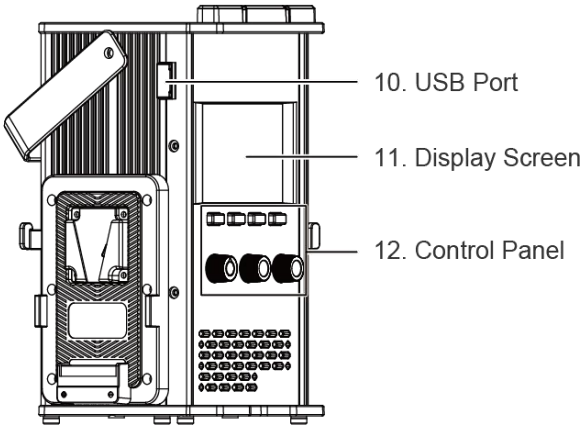


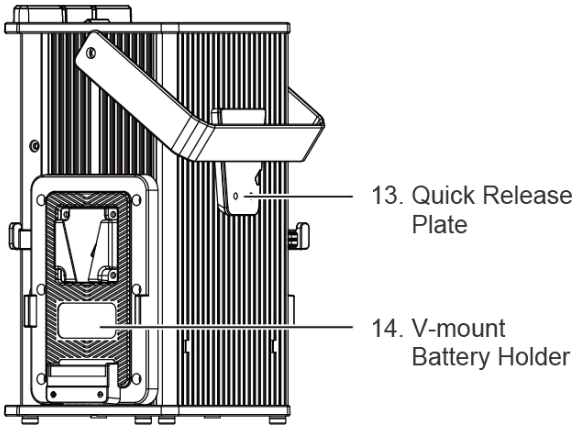


Model Name: Alien 300C









(1) Adjustable Handle: For adjusting and fixing the direction of lamp head in tilt.

(2) DC Input Socket: For connecting the lamp head with control unit.

(3) Two-in-one Stand Head (short): Combines baby pin mount and junior pin receiver.

(4) DC Output Socket: For outputing DC power to the lamp head.

(5) DC Power Input Socket: For connecting the control unit with DC power.

(6) AC Power Input Socket: For connecting the control unit to the AC power outlet via the AC power cable.

(7) Power Switch: For turning on/off the fixture.

(8) DMX IN: For DMX signal input.

(9) DMX OUT: For DMX signal output.

(10) USB Port: For updating the firmware.

(11) Display Screen: For displaying the lighting status and settings.

(12) Control Panel: Includes four buttons and three knobs, for operating various functions.

(13) Quick Release Plate: For mounting the quick release clamp.

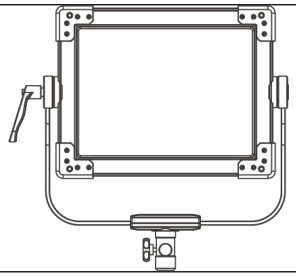
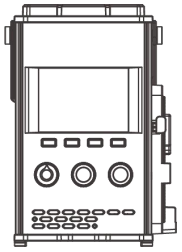
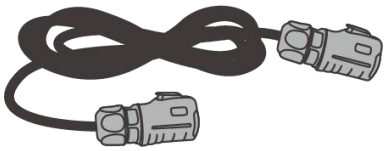
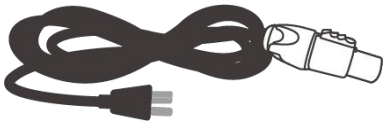
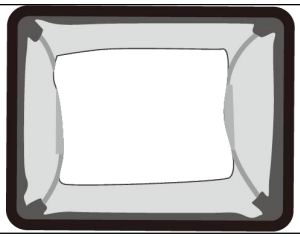
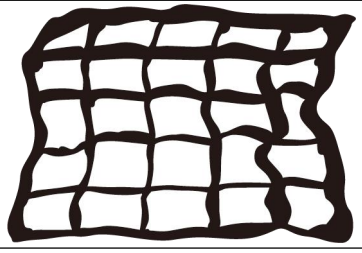
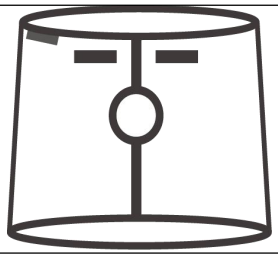
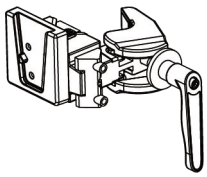
(14) V-mount Battery Holder: For mounting V-mount batteries.

2.2. Specifications

Model Name	Alien 150C	Alien 300C
Rated Power	175W	350W
Input Voltage/Current	DC: 24V DC(battery): 14.4V-28V AC: 100-240V 50/60Hz	DC: 48V DC(battery): 14.4V-28V AC: 100-240V 50/60Hz
LED Type	RGBWW	
CCT	2700K → 12000K（G/M±150）	
CRI	Average 96	
TLCI	Average 97	
TM-30 Rf	Average 94	
TM-30 Rg	Average 100	
SSI(3200K)	84	
SSI(5600K)	74	
Dimming	0.0%-100.0%, by 0.1% increment	
IP Rating	IP55 (lamp head), IP20 (control unit)	
Control	On-board, Remote Controller, NANLINK APP, DMX/RDM, LumenRadio CRMX	
Special Effects	CCT Loop, INT Loop, HUE Loop, Flash, Pulse, Storm, Police Car, TV, Paparazzi, Candle/Fire, Disco, Bad Bulb, Firework, Explosion and Welding	
Product Size	Lamp Head: 392×370×95mm/15.43×14.57×3.74″ Control Unit: 148.3×128.18×208.9mm/5.84×4.78×8.22″	Lamp Head: 513.59×454.17×99.29mm/20.22×17.88×3.91″ Control Unit: 160.6×128.18×233.9mm/6.32×5.05×9.21″
Product Weight	Lamp Head: 3.6kg/7.94lb Control Unit: 1.95kg/4.30lb	Lamp Head: 6.6kg/14.55lb Control Unit: 2.67kg/5.89lb
Certifications	CE, UKCA, RoHS, Diamond PSE, KCC, BIS, FCC-ID, SAA+C-Tick, ETL+cETL, NCC, Test Report	

2.3. Includes

Alien 150C

Lamp Head × 1	Control Unit × 1	DC Connection Cable × 1
		
AC Power Cable × 1	Pop-Up Softbox × 1	Diffuser × 2 (Lite Diffuser × 1 +Standard Diffuser × 1)
		
Eggcrate × 1	Rain Cover for Control Unit ×1	Quick Release Clamp × 1
		
User Manual × 1	Carrying Bag × 1	/
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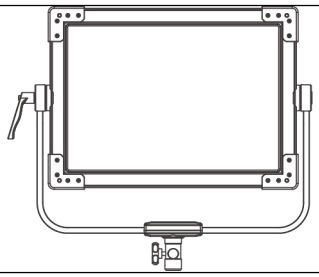
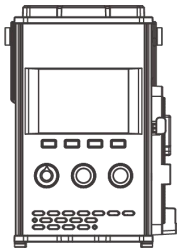
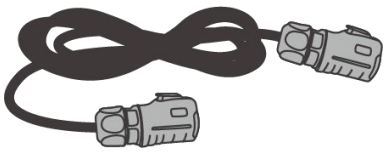
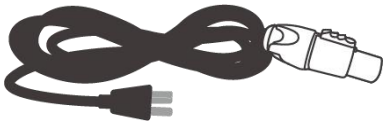
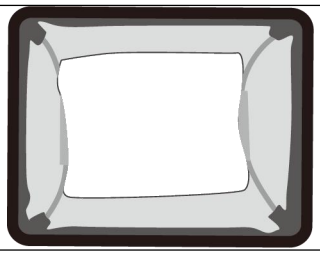
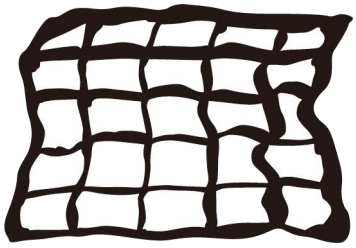
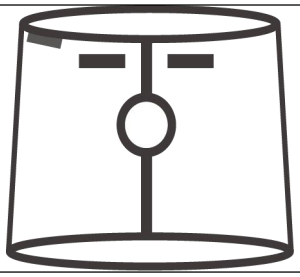
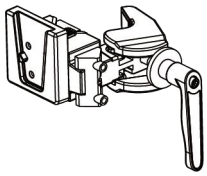
Alien 300C

Lamp Head × 1	Control Unit × 1	DC Connection Cable × 1
		
AC Power Cable × 1	Pop-Up Softbox × 1	Diffuser × 2 (Lite Diffuser × 1 +Standard Diffuser × 1)
		
Eggcrate × 1	Rain Cover for Control Unit ×1	Quick Release Clamp × 1
		
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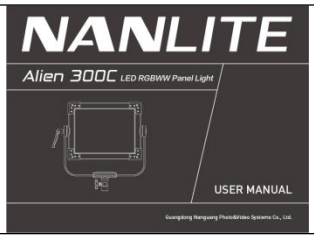
		/

3. Safety Instructions

Please read and understand all safety instructions before installing or operating the fixture. Always follow the instructions to avoid personal injury and fixture damage. Retain all safety and operating instructions for future reference.

Electrical:

Danger

Please ensure that the AC current, voltage and frequency comply with the fixture requirements, and make sure the fixture is properly grounded when connected.

Danger

Please use proper and undamaged cables to connect the fixture correctly, avoiding the risk of electric shock or fixture damage.

Danger

Please disconnect the power before moving or transporting the fixture.

Installation:

Danger

Please carefully read the manual and follow the instructions to install the fixture to avoid any unnecessary incidents.

Danger

Please use light stands or clamps that meet the load-bearing requirements to ensure the fixture's safety and stability when installing the fixture.

Danger

Please secure the fixture with a safety cable that can support at least 10 times the fixture's weight for overhead installation.

Caution

Please wear appropriate protective gloves when installing or removing the fixture or accessory with high-temperature surfaces.

Caution

Please pay special attention to the impact of wind and take appropriate reinforcement measures when installing outdoors.

Caution

When installing or detaching heavy accessories or adjusting the direction of the fixture, please hold the handle firmly to prevent accidental tilt down. Keep your hands away from the gap between the yoke and the fixture to avoid hand injuries.

Operation:

Danger

Please stop using the fixture immediately if the fixture housings or cables show visible damage.

Danger

Please do not use the fixture near flammable or explosive materials.

Danger

Please be cautious, as the flashing effect may trigger seizures.

Danger

The Alien 150C/300C lamp heads are IP55 rated. They can withstand water jets from all directions, including continuous exposure to moderate to heavy rain, intense water splashes. Please do not place the fixture in severe rain, immerse it in water, or wash it with high-pressure water jet, as these could cause personal injury or damage to the fixture.

Danger

Please keep the fixture away from corrosive liquids or high-pressure steam.

Caution

Please ensure the fixture is used in an environment between -20°C and 45°C; operating outside this temperature range may damage the fixture.

Caution

Please do not cover the ventilation openings during use to prevent the fixture from overheating.

Caution

Please do not look directly at the light source without wearing protective glasses, as this may cause irreversible eye injury.

Caution

Please remind the crew to avoid eye injury caused by accidentally looking directly at the light source before the fixture lights up.

Maintenance:

Danger

Please do not disassemble or repair any part of the fixture on your own, as this will void the warranty. Maintenance and repair work should be carried out by an authorized service center and professional personnel.

Danger

Please disconnect the power before starting any maintenance work.

Caution

Please ensure that the fixture is completely dry before transportation or storage after using it in a humid environment.

Notice

Please ensure the fixture is stored away from the following environments or items: extreme temperatures, direct sunlight, high humidity, intense vibrations, dust, strong magnetic fields, and flammable or explosive materials.

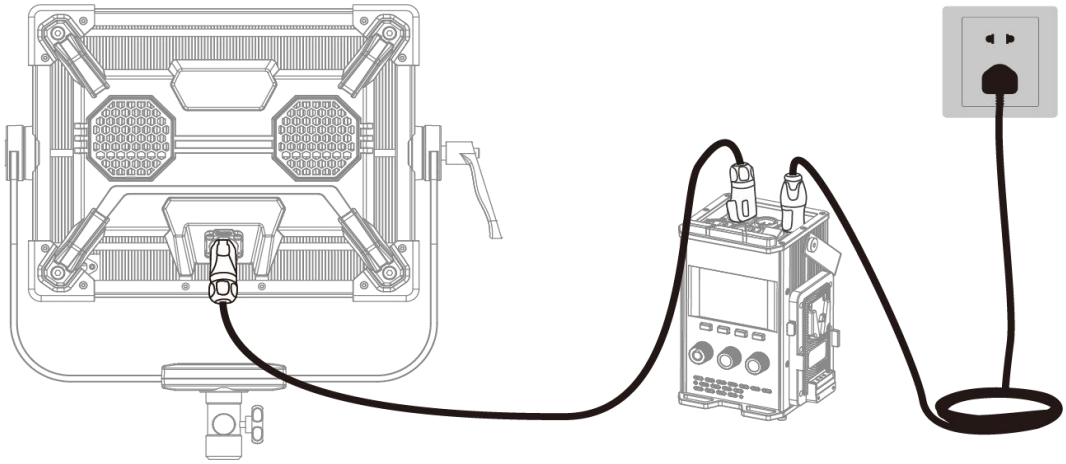
Notice

Please transport the fixture and accessories in suitable case to avoid damage.

4. Installing Instructions

4.1. Connecting the Fixture with the Power Outlet

Please turn off the power switch before connecting the fixture with AC power outlet, and connect as shown below. When connecting to a DC power source, disconnect the AC power cable and use the specific connection cable to connect the DC power input socket to the DC power source.



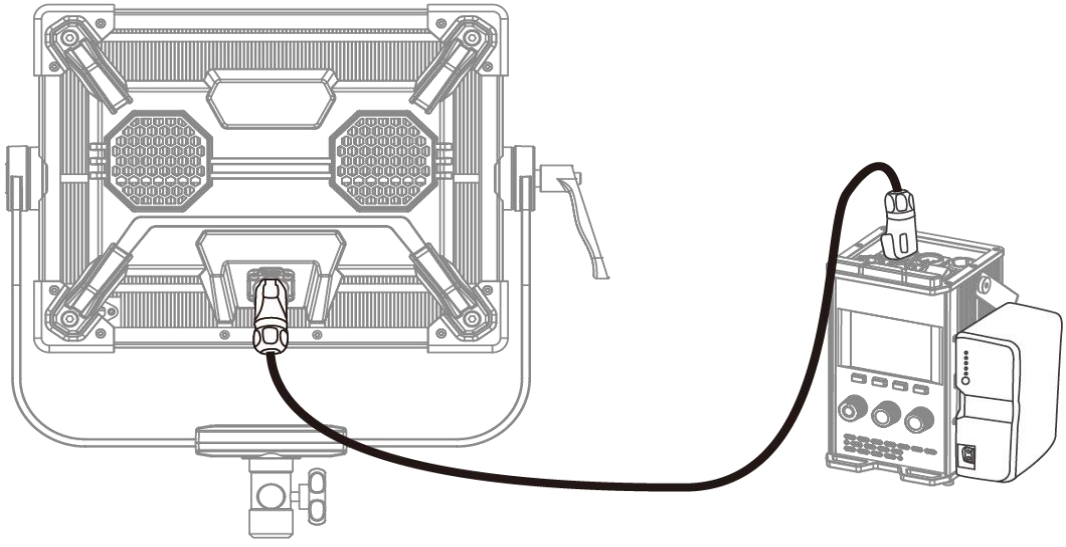
4.2. Connecting the Fixture with Battery

When using the battery, turn off the power switch before mounting the battery on the battery holder of the control unit.

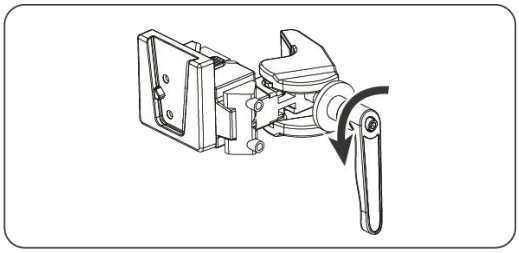
▲Note: (1) Please do not exert too much force when mounting the battery, to avoid damage and deformation of the battery holder.

(2) Please press the battery lock catch when removing the battery, to avoid damage of the battery holder.

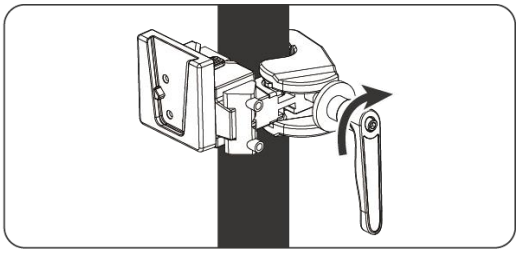
(3) The battery holder is for mounting 14.4-14.8V or 26V-28V V-mount batteries.



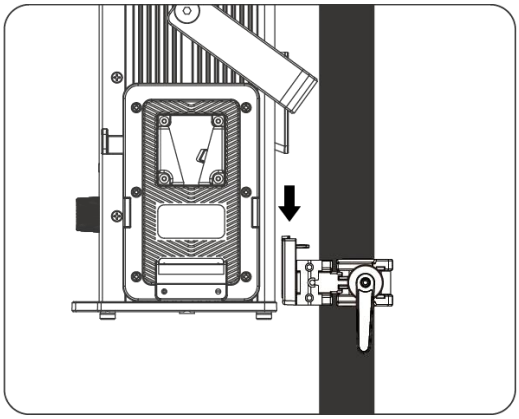
4.3. Installing and Detaching the Quick Release Clamp



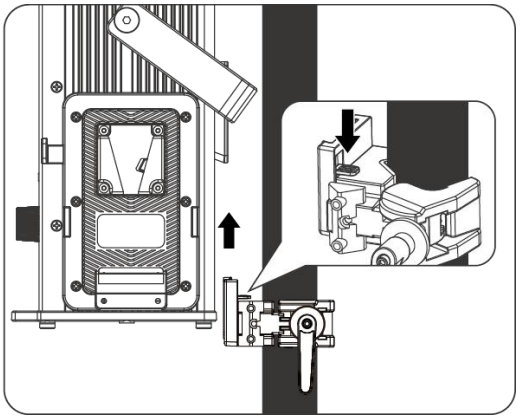
(1) Rotate the adjustable handle to release the clamp.



(2) Mount the quick release clamp on the light stand, then rotate the adjustable handle to tighten the clamp.

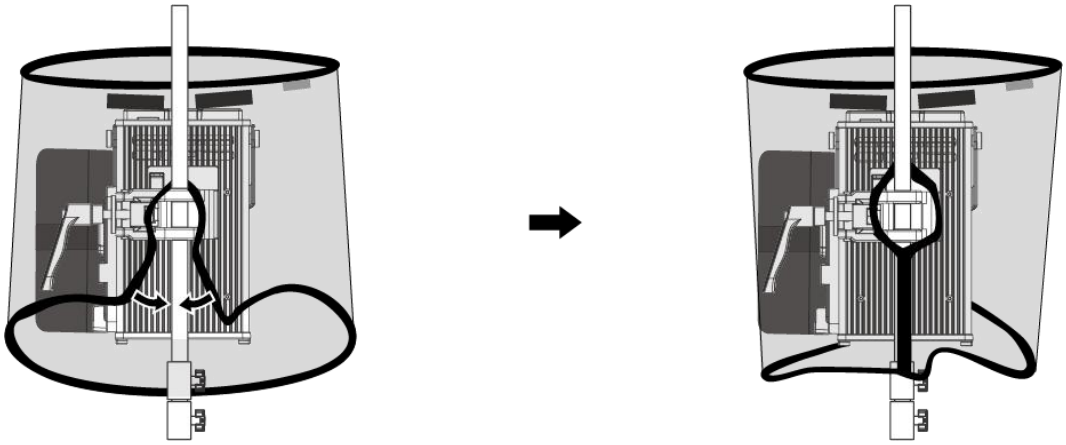


(3) Align the quick release plate on the control unit with the quick release mount on the clamp to mount the control unit on to the clamp.

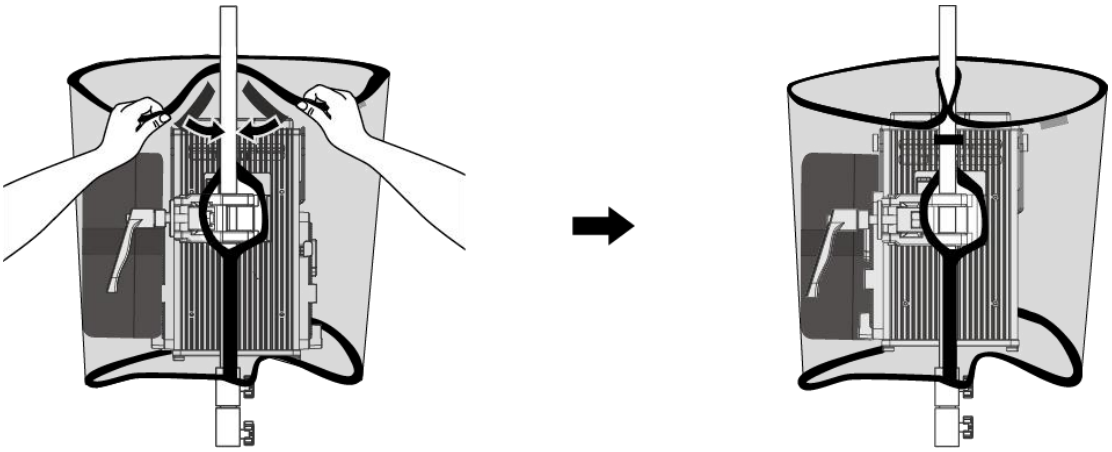


(4) Press the lock catch on the clamp, lift the control unit upward to detach it from the light stand.

4.4. Installing the Rain Cover (for Control Unit)



(1) After unfolding the rain cover, place it over the control unit and attach the hook and loop fasteners underneath the rain cover.

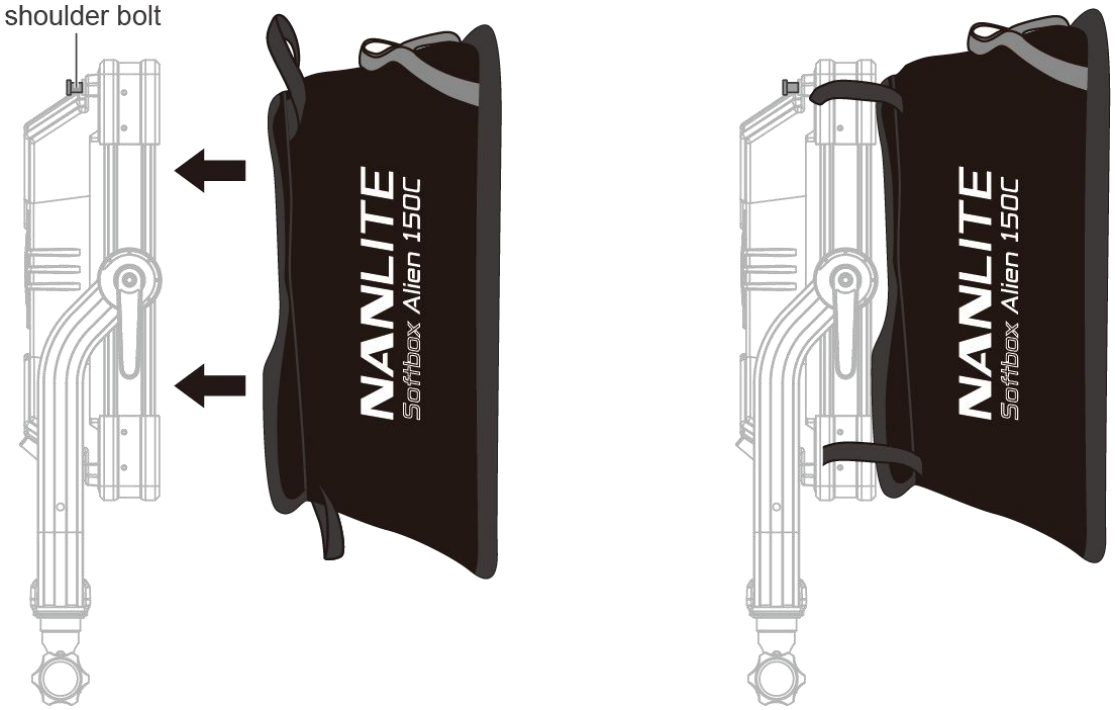


(2) When powered by either AC/DC power or battery, the hook and loop fasteners above the rain cover can be wrapped around the light stand as needed.

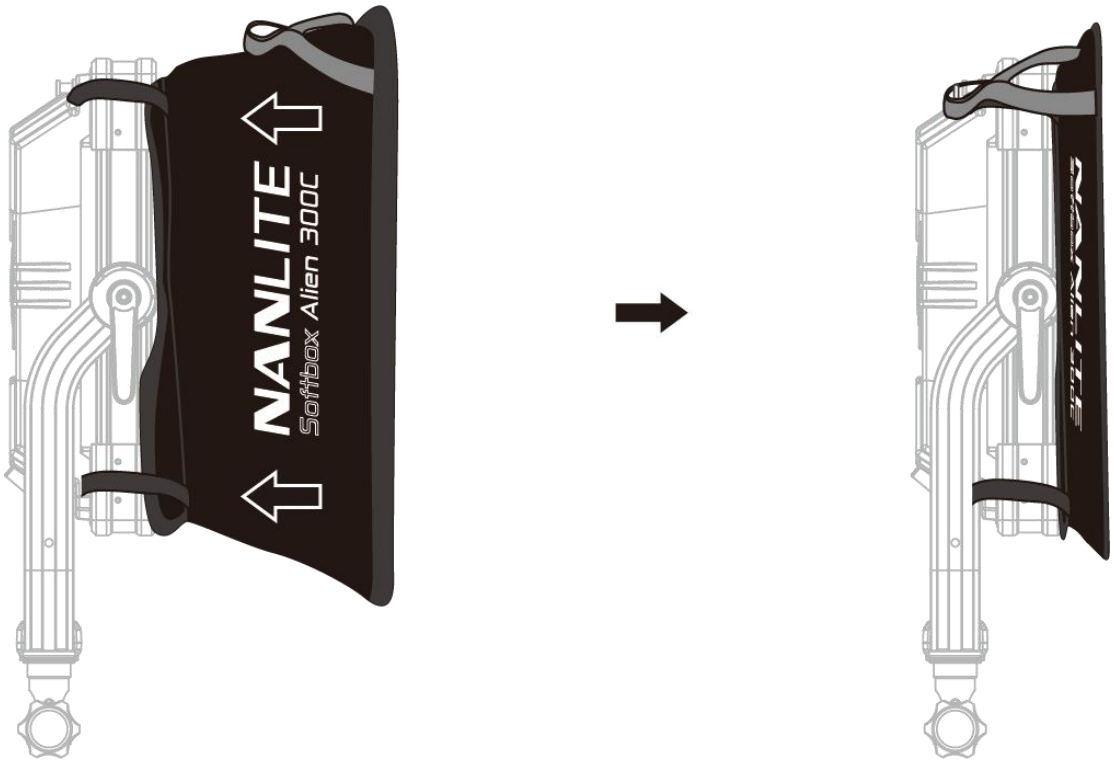
▲Note: The control unit is not waterproof, please use the included rain cover when using the control unit in the rain.

4.5. Installing the Softbox

(1) Set the softbox upright, fasten the elastic bands at the four corners of the softbox to the shoulder bolts on the lamp head to secure the softbox in place.



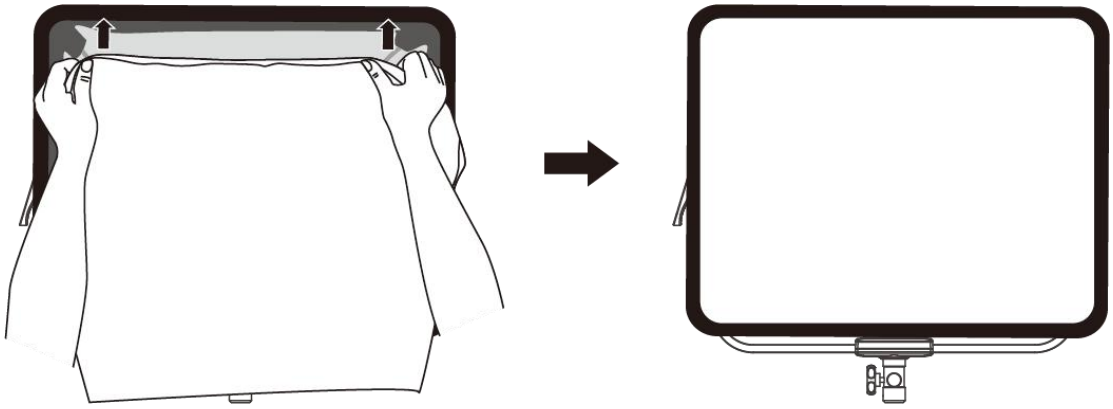
(2) After use, flatten the softbox and secure it by using the two blue elastic bands located diagonally across to the corresponding shoulder bolts for storage.



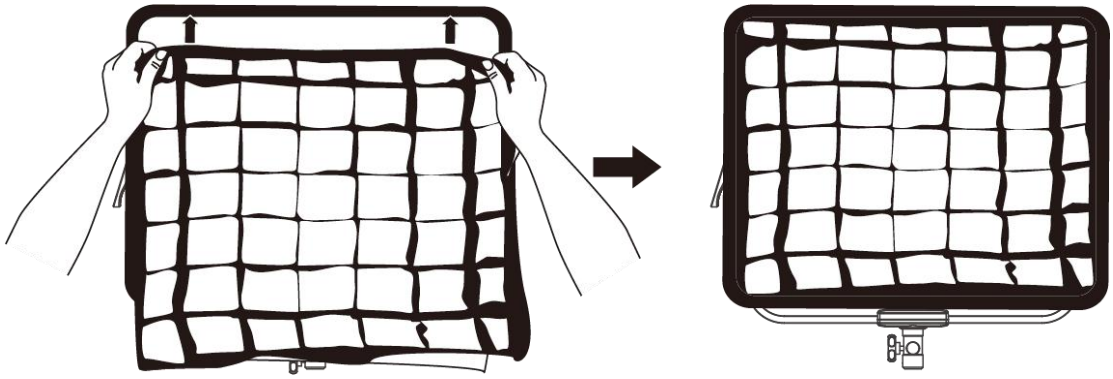
4.6. Installing the Diffuser and Eggcrate

(1) Attach the diffuser to the black hook and loop fasteners inside the softbox.

▲Note: There are included two diffusers: lite diffuser and standard diffuser.



(2) Wrap the eggcrate around the softbox, and attach the hook and loop fasteners.



5. Operating Instructions

After connecting to a power source or mounting the battery, turn on the power switch to power up the fixture.

The control panel features four buttons--MODE, MENU, PRESET, and LOCK, as well as three knobs: left knob, middle knob, and right knob.

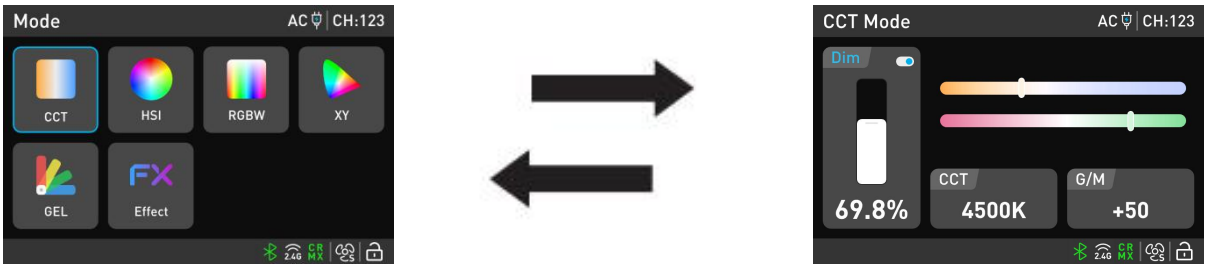
5.1. Lighting Mode Control

This fixture has CCT, HSI, RGBW, XY Coordinates, Gel, and Effect modes.

5.1.1. Control Panel Control

(1) Mode Selection

Press the MODE button to enter the mode selection interface. Rotate the **right knob** to switch options, and press the **right knob** to enter the corresponding mode.



▲Note: In the mode interface, press the MODE button to return to the mode selection interface.

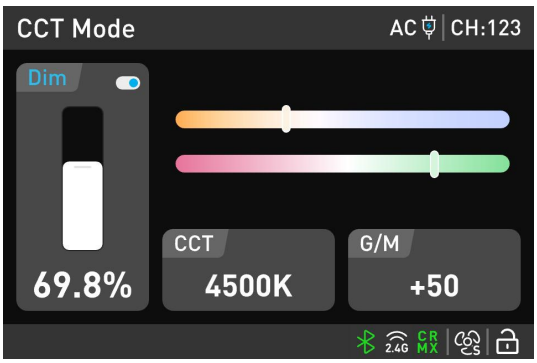
(2) Mode Operation

① CCT Mode

Rotate the **left knob** to adjust brightness. Press the **left knob** to turn on or off the Dimmer Switch.

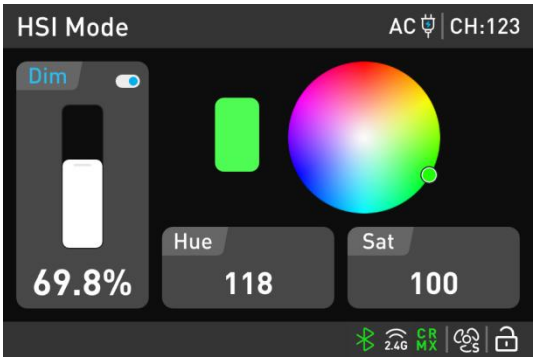
Rotate the **middle knob** to adjust the CCT. Press the **middle knob** to toggle among 2700K, 3200K, 4300K, 5600K, 6500K, 7500K, 8500K, 10000K and 12000K.

Rotate the **right knob** to adjust the G/M. Press the **right knob** to set the value to zero.



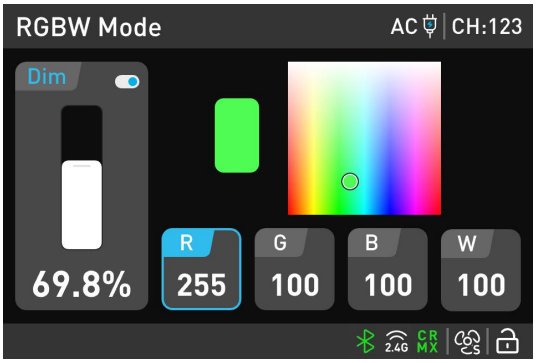
② HSI Mode

Rotate the **left knob** to adjust brightness, the **middle knob** to adjust hue, and the **right knob** to adjust saturation.



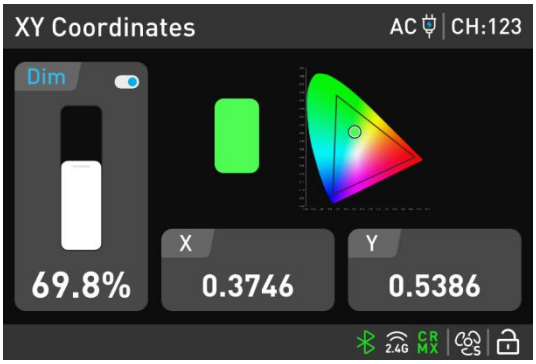
③ RGBW Mode

Rotate the **left knob** to adjust brightness, the **right knob** to select R, G, B or W, and the **middle knob** to adjust the parameter.



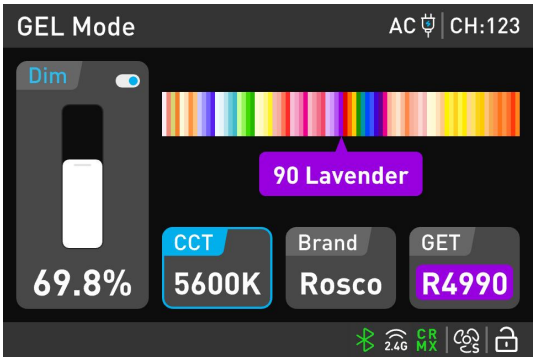
④ XY Coordinates

Rotate the **left knob** to adjust brightness, the **middle knob** to adjust the X coordinate value, and the **right knob** to adjust the Y coordinate value.



⑤ Gel Mode

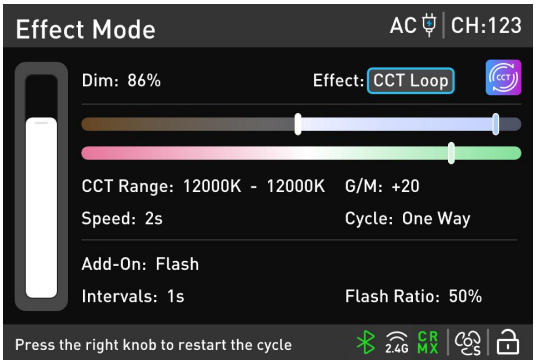
Rotate the **left knob** to adjust brightness, the **right knob** to select CCT, Brand or Gel, and the **middle knob** to switch CCT, gel brands, or select the needed gel.



⑥ Effect Mode

Rotate the **right knob** to select the needed effect. Press the **right knob** to enter the interface to adjust parameters.

In this interface, rotate the **right knob** to select a parameter, and the **middle knob** to adjust the parameter valve.



5.1.2. DMX Control

(1) DMX Connection

① Connect the fixture to the DMX console via a DMX cable

A 5-pin shielded cable with a diameter of no less than 0.3mm must be used to connect the light fixture to the DMX console.

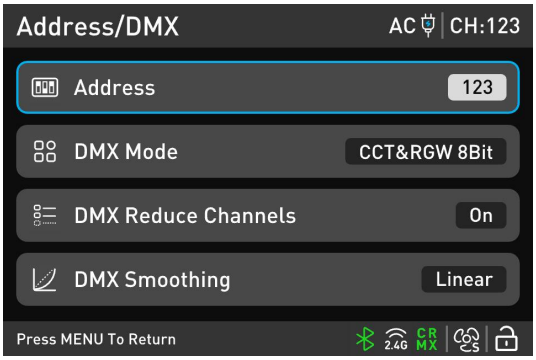
The fixture is built with a 5-pin XLR socket. If the DMX console is built with a 3-pin XLR socket, an adapter will be required.

② DMX Termination Resistor

When connecting fixtures with DMX cables, the DMX out port of the last fixture in the daisy chain must be connected to a DMX termination resistor (not included). This effectively prevents interference during DMX signal transmission.

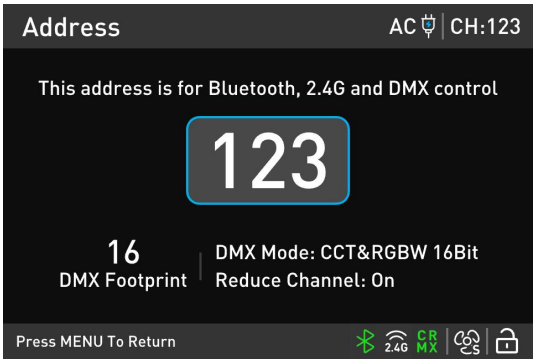
(2) DMX Settings

The DMX settings include Address, DMX Mode, DMX Reduce Channels, DMX Smoothing, DMX Dimming Curve and Loss Behavior.



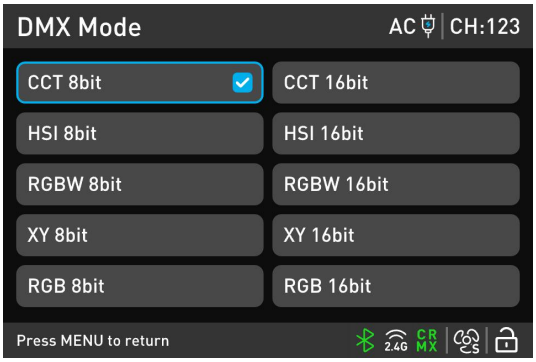
① Address Setting

Enter the address setting interface: Address/DMX → Address.



② DMX Mode Setting

Enter the DMX mode interface: Address/DMX → DMX Mode.



③ Other DMX Settings

The operation methods for DMX Reduce Channels, DMX Smoothing, DMX Dimming Curve and Loss Behavior are as below:

Rotate the **right knob** to the corresponding DMX setting option and press the **right knob** to enter the level 3 menu. Rotate the **right knob** to select the parameter, and press the **right knob** to set.

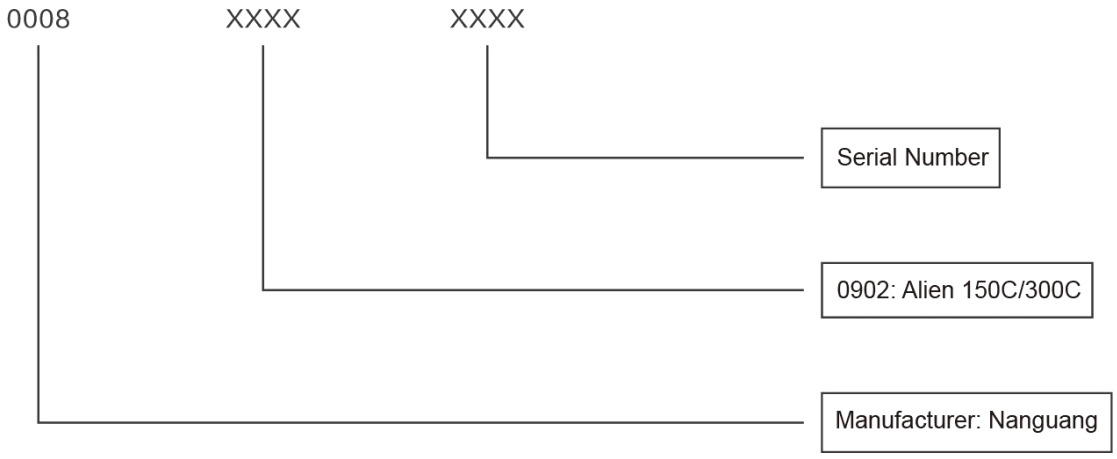
After the DMX settings are finished, and the DMX cable is connected, for detailed operations on controlling the fixture with a DMX console, please refer to the DMX CHARTS.

(3) RDM Function

① Connect the fixture to a console with RDM function using a connection cable.

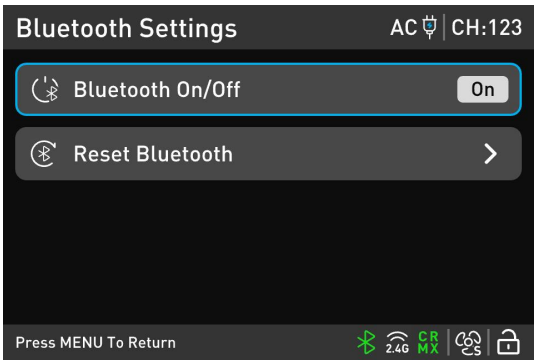
② Control the fixture using a console with RDM function (For detailed operations, please refer to the console manual).

▲Note: The UID format of fixture is as below:



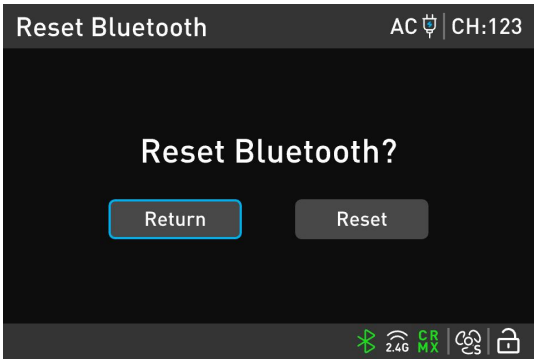
5.1.3. NANLINK APP Control-via Bluetooth

Enter the Bluetooth settings interface: Wireless Control → Bluetooth Settings.



The Reset Bluetooth option is available when the Bluetooth is on.

Enter the reset Bluetooth interface: Bluetooth Settings → Reset Bluetooth.

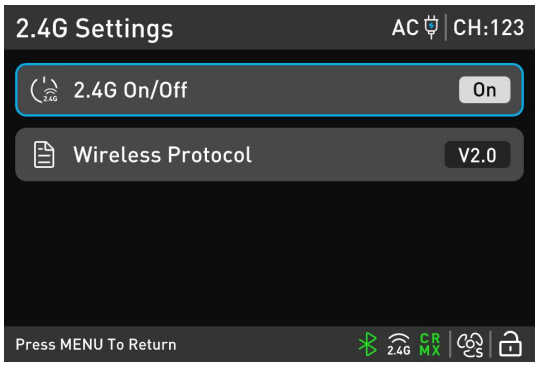


5.1.4. NANLINK APP Control-via 2.4G

The fixture can be controlled by the NANLINK APP via Bluetooth, or by the APP via 2.4G through the NANLINK transmitter box.

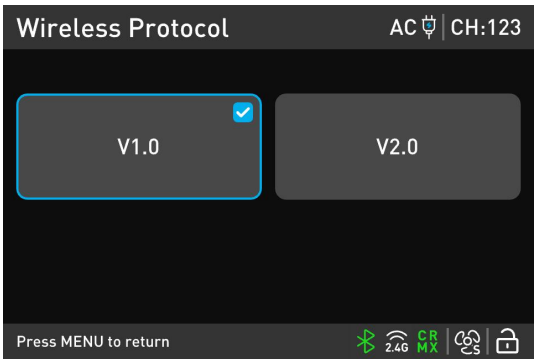
(1) Turn on the 2.4G.

Enter the 2.4G settings interface: Wireless Control → 2.4G Settings.

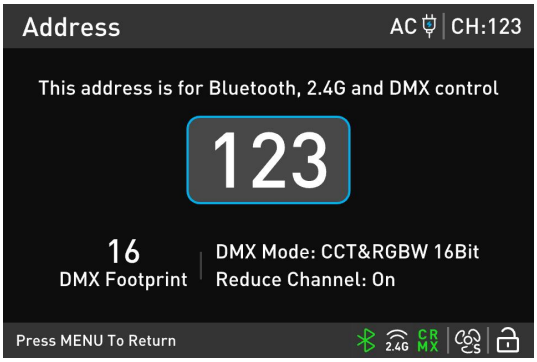


(2) Set the wireless protocol to V1.0.

Enter the wireless protocol interface: 2.4G Settings → Wireless Protocol.



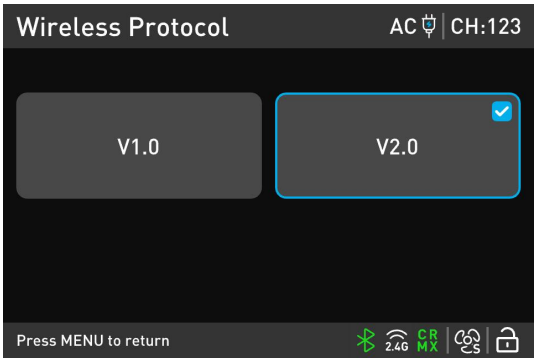
(3) Set the address.



5.1.5. Remote Controller Control

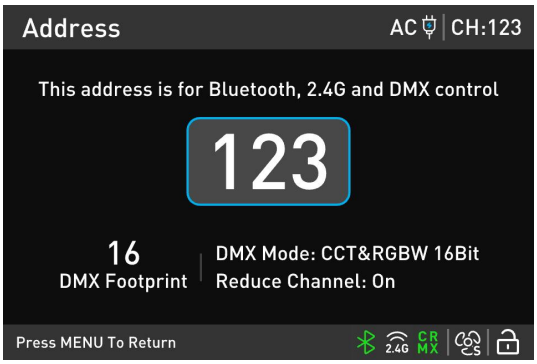
(1) Set the wireless protocol before controlling the fixutre by a 2.4G remote controller.

Enter the wireless protocol interface: 2.4G Settings → Wireless Protocol.



▲Note: The wireless protocol should be set in V2.0 when using the WS-RC-C2 remote controller to control the fixture. Set it in V1.0 when using other remote controllers.

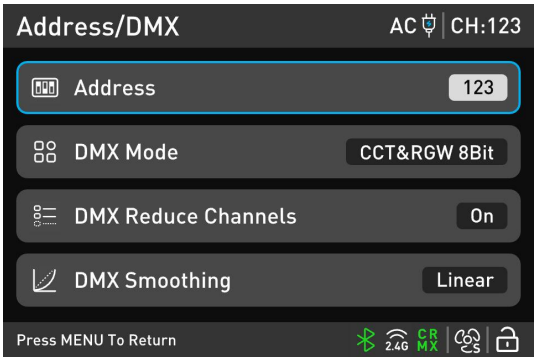
(2) Set the address.



After setting, the fixture can be controlled by a 2.4G remote controller.

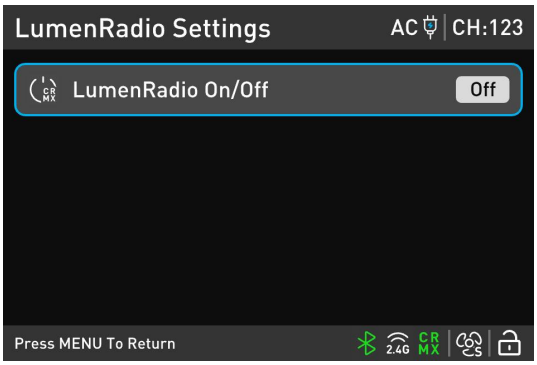
5.1.6. LumenRadio CRMX Control

(1) Select the Address/DMX and enter the next level menu to adjust the DMX settings.



(2) Turn on the LumenRadio.

Enter the LumenRadio settings interface: Wireless Control → LumenRadio Settings.



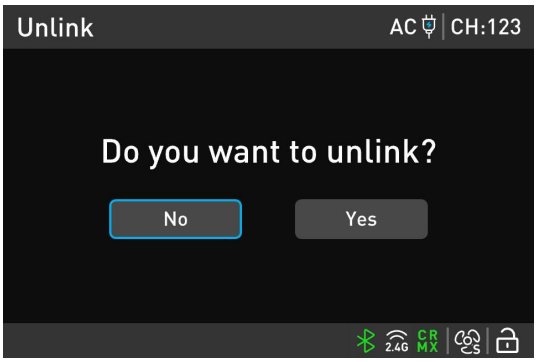
The CRMX wireless signal can be received when the LumenRadio is turned on.

The CRMX wireless signal can't be received when the LumenRadio is turned off.

(3) Disconnect the fixture that needs to receive CRMX wireless signals.

▲Note: The LumenRadio settings should be set to Unlink to allow the fixture to be reconnected to a new fixture or transmitter.

Enter the unlink interface: LumenRadio Settings → Unlink.

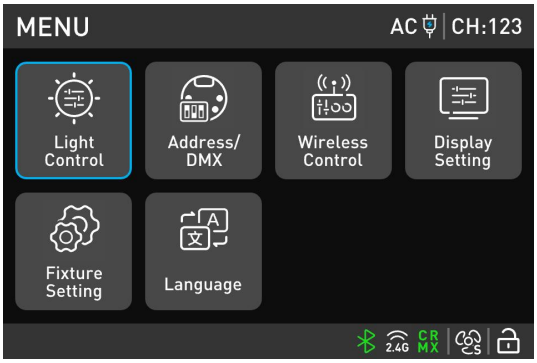


(4) Use a CRMX transmitter to connect this fixture.

5.2. Menu

5.2.1. Menu Overview

In the menu, there are options including Light Control, Address/DMX, Wireless Control, Display Setting, Fixture Setting and Language.

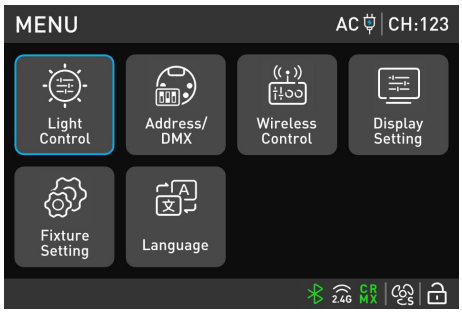


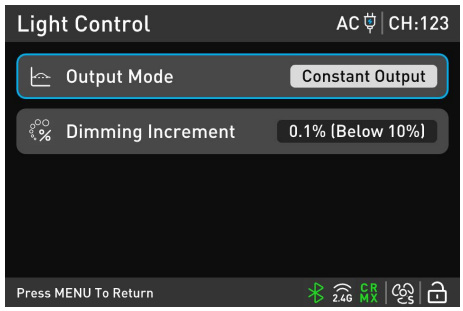
Level 1	Level 2	Level 3
Light Control	Output Mode	/
	Dimming Increment	

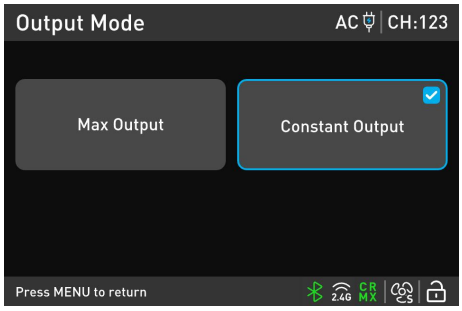
Level 1	Level 2	Level 3
Address/DMX	Address	/
	DMX Mode	
	DMX Reduce Channels	
	DMX Smoothing	
	DMX Dimming Curve	
	Loss Behavior	
Wireless Control	Bluetooth Settings	Bluetooth On/Off
		Reset Bluetooth
	2.4G Settings	2.4G On/Off
		Wireless Protocol
	LumenRadio Settings	LumenRadio On/Off
		Unlink
	All Wireless On/Off	/
Display Setting	Screen Brightness	/
	Rotate Screen	
	Button Backlight	
Fixture Setting	Fan Control	/
	Firmware Update	
	Reset All Settings	
	Fixture Info	
Language	/	/

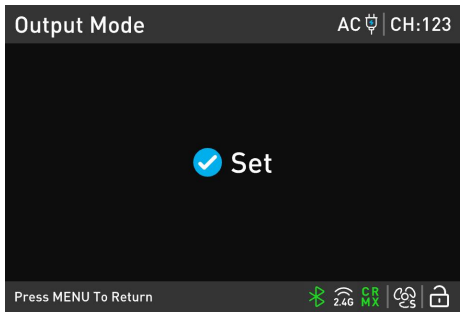
5.2.2. Menu Operation

In the menu, rotate the **right knob** to select an option and press the **right knob** to enter the next level menu. In the level 2 or level 3 menu, press the MENU button to return to the previous menu.









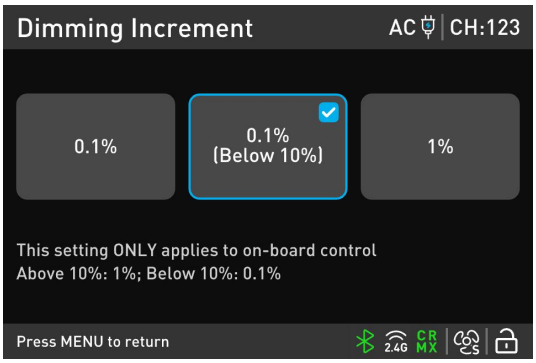
5.2.3. Others

(1) Dimming Increment

When 1% is selected, the dimming range is 0% to 100%, with increment of 1%.

When 0.1% is selected, the dimming range is 0.0% to 100.0%, with increment of 0.1%.

When 0.1% (Below 10%) is selected, if the brightness is set between 0.0% and 9.9%, the increment is 0.1%; if the brightness is set between 10% and 100%, the increment is 1%.



(2) Fan Control

When the fan is in Smart or Full Speed mode, the maximum brightness of the fixture is 100%.

When the fan is in Low Speed mode, the maximum brightness of the fixture is 50%.

When the fan is in Pause mode, the interior fan will stop working temporarily, the maximum brightness is 100%. When the lamp head reaches the critical temperature, the fan will automatically switch to the Smart mode.

When the fan is in Off mode, the interior fan will stop working, and the maximum brightness of the fixture is 15%.

Description for Fan Icon:

Icon	Description
	Fan (Smart)
	Fan (Full Speed)
	Fan (Low Speed)
	Fan (Pause)
	Fan (Off)
	Fan Abnormal

(3) Description for Wireless Icon in the Bottom Toolbar:

Icon	Description
	Bluetooth Not Paired
	Bluetooth Paired
	Bluetooth Off
	2.4G On
	2.4G Off
	LumenRadio Unlinked
	LumenRadio Linked
	LumenRadio Off

(4) Firmware Update

Put the firmware files into the root directory of the USB drive (ensure the versions of the firmware files are the same),

and insert the USB drive to the USB port.

▲Note: ① Please do not rename the firmware files.

② Ensure the USB drive is formatted to FAT, FAT32 or exFAT.

③ If the instruction "The versions of the firmware files don't match. Please check the files and try again" is displayed, please follow the instruction to check the firmware files.

④ If the instruction "Missing parts of firmware files, please check the files and try again" is displayed, please ensure that all firmware files are stored on the USB drive.

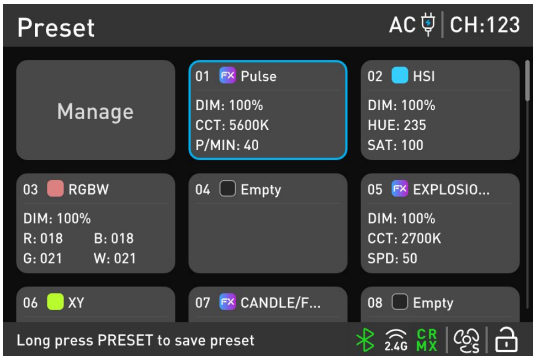
⑤ If the instruction "No firmware found, press MENU to return" is displayed, please check whether the firmware files are correct, whether they are stored in the root directory of the USB drive, and whether the USB drive is formatted as FAT, FAT32 or exFAT.

⑥ If all the above steps have been completed and the firmware files still cannot be found, please format the USB drive again.

⑦ If the fixture still cannot recognize the USB drive, please replace the USB drive.

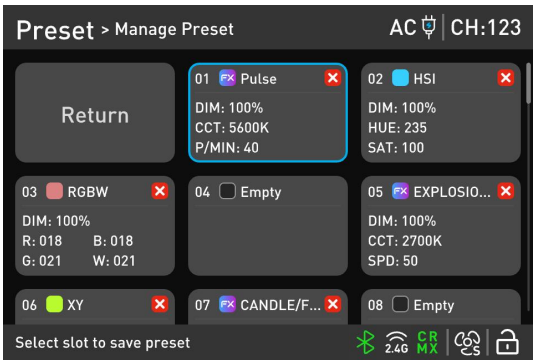
5.3. Preset

The preset function is used to save lighting settings for quick access. Press the PRESET button to enter the preset interface.



5.3.1. Save Preset

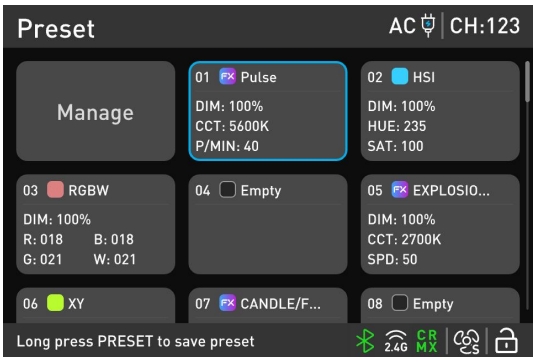
After completing the lighting settings, press the PRESET button for 3 seconds to enter the preset interface. Rotate the **right knob** to select a slot and press the **right knob** to save.



If a preset is already saved in this slot, pressing the right knob will show an instruction for replacing the preset. Select "Yes" to replace the existing preset with the new one.

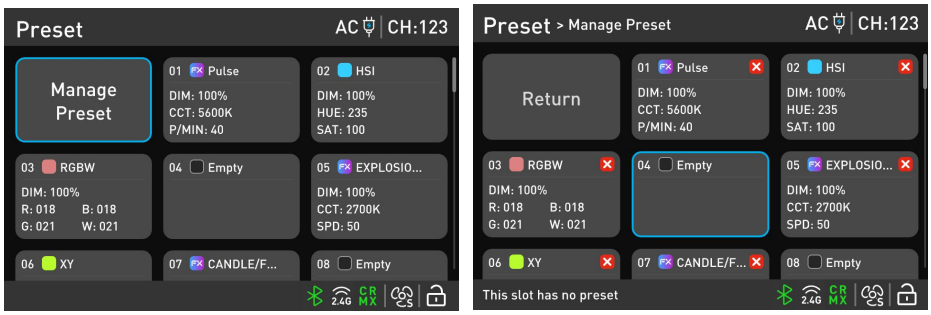
5.3.2. Apply Preset

In the preset interface, rotate the **right knob** to select the needed preset. Press the **right knob** to apply the preset's setting, and the screen will switch to the corresponding setting interface.

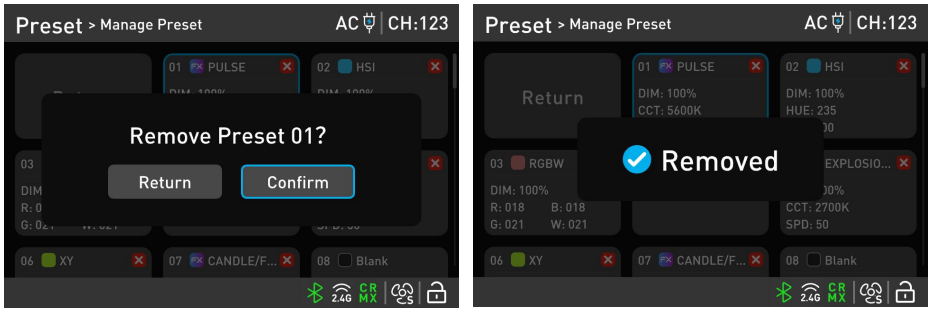


5.3.3. Manage Preset

In the preset interface, rotate the **right knob** to Manage, and press the **right knob** to enter the preset manage interface, any preset can be removed in this interface.

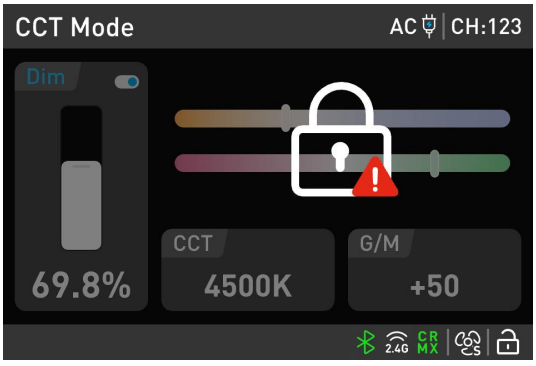


Rotate the **right knob** to select the preset to be removed. Pressing the **right knob** will show an instruction, select "Yes," and press the **right knob** again to complete the removal.



5.4. Lock

Long press the LOCK button to lock the lighting state. The lock setting only locks the control panel; the fixture can still be controlled via DMX signals and all wireless signals, including Bluetooth, 2.4G, and LumenRadio. Long press the LOCK button again to unlock.



▲Note: If the fixture is turned off while in a locked state, it will remain locked when turned on again. To unlock, long press the LOCK button.

6. Troubleshooting for Common Issues

Issues	Troubleshooting Guide
The fixture can't power up.	1. Please check whether the connections between the cable, lamp head, control unit, and power outlet are loose. 2. Please check whether the power source voltage and frequency is within the specified range.
The fixture can be operated manually, but DMX control is not working.	1. Please check whether the DMX address setting is correct. 2. Please check whether the DMX adapter cable is connected correctly and without damage.
The display screen is on, but the fixture cannot be operated.	Please check whether the screen shows . Long press the LOCK button for 3s to unlock.
The fan doesn't work.	1. Please turn on the fixture and check whether the fan is in Off mode. 2. Please contact the place of purchase or manufacturer to replace the fan if the screen shows "Fan abnormal".

Certification

IS 10322
(PART 5/SEC 1): 2012

R-41242888
www.bis.gov.in

CCAK23Y10180T2 CCAK20Y10020T5 CCAK21Y10070T2

IP20 SELV

0.5m

Made in China

Please scan the QR code for more details.

DMX Charts

Nanlite Website

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