NANLUX

WC-EXT

USER MANUAL

Version: V1.0
2025-02-12

Guangdong Nanguang Photo&Video Systems Co., Ltd.

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Revision History

Version	Date（Y-M-D）	Note
V1.0	2025-02-12	First Release

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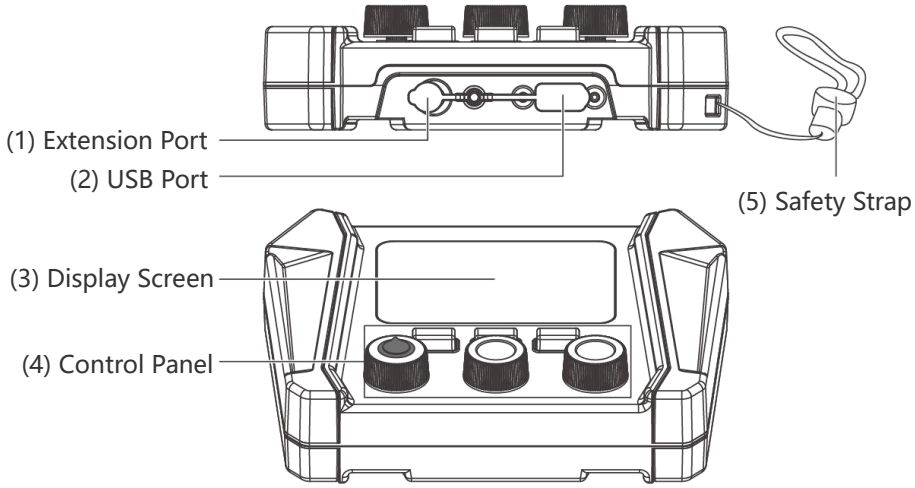
1. Product Overview

1.1. Product Layout



(1) Extension Port: For connecting the fixture via the connection cable.

(2) USB Port: For updating the firmware of the wired controller.

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

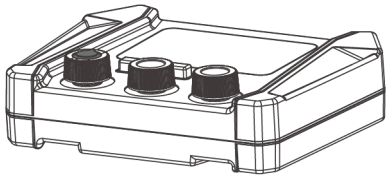
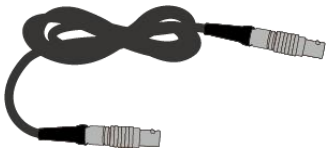
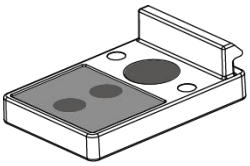
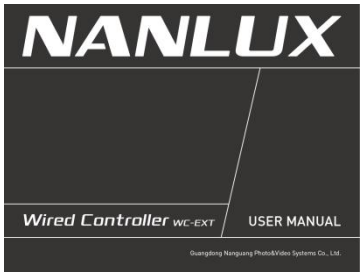
(4) Control Panel: Includes three buttons and three knobs, for operating various functions.

(5) Safety Strap: For hanging the wired controller, or securing it during handheld operation.

1.2. Specifications

Model Name	WC-EXT
IP Rating	IP66
Certifications	CE, UKCA, RoHS, IP66

1.3. Includes

Wired Controller WC-EXT × 1	Connection Cable × 1	AS-MB-1 Magnetic Base × 1
		
Carrying Bag × 1	User Manual × 1	/
		/

2. 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.

Electrical:

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.

Caution

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

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

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

Notice

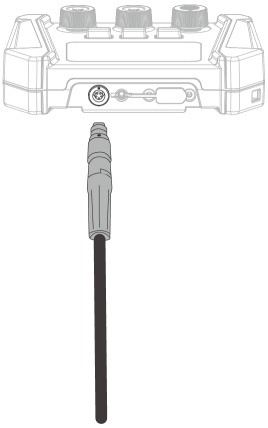
Please ensure the fixture is stored away from the following environments or items: extreme temperatures, direct sunlight, high humidity, strong vibrations, dust, strong magnetic fields, and flammable or explosive substances.

Notice

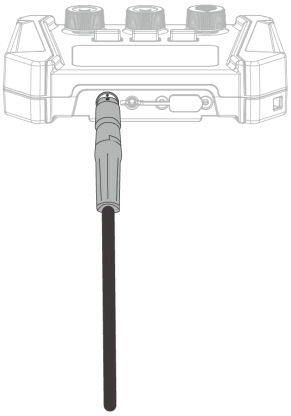
Please transport the fixture and accessories in suitable case to avoid damage.

3. Installing Instructions

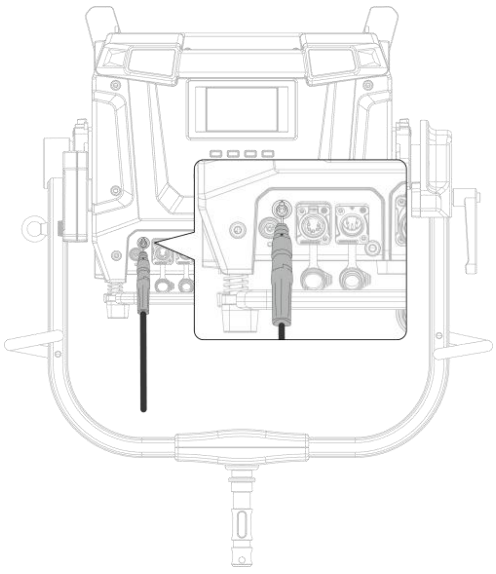
Connecting the wired controller to the light fixture:



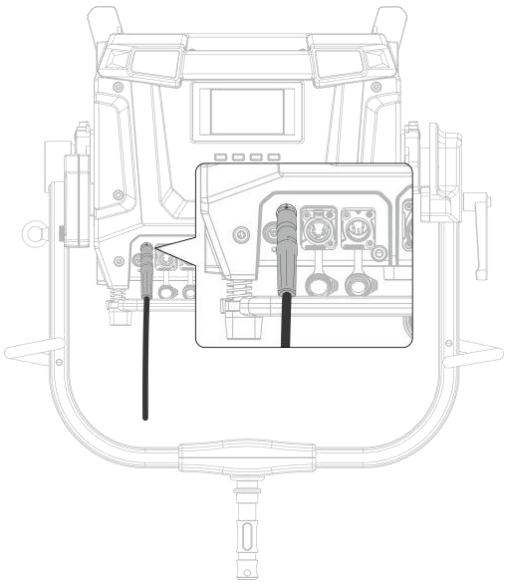
(1) Take one plug of the connection cable and locate the red dots on both the plug and the extension port of the wired controller.



(2) Align the two red dots and insert the plug into the extension port on the wired controller.

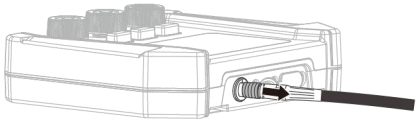


(3) Take the other plug of the connection cable and locate the red dots on both the plug and the extension port of the light fixture.



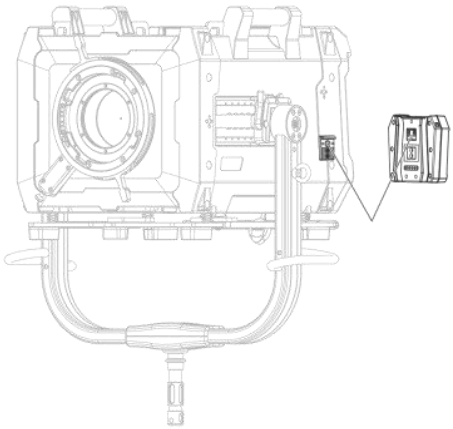
(4) Align the two red dots and insert the plug into the extension port on the light fixture to complete the connection.

Disconnecting the wired controller from the light fixture:



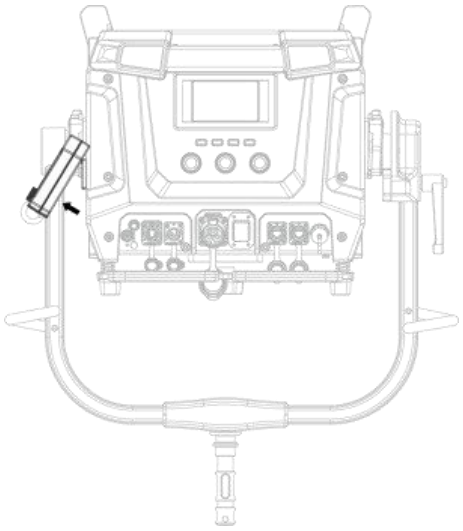
Grip the anti-slip section of the connection cable plug and pull it out. Repeat the same process for the other plug to disconnect the wired controller from the light fixture.

Install wired controller onto magnetic base:



Align the groove on the back of the wired controller with the latch on the base, bring the controller close to the base, and it will be automatically attached to the base.

Detach wired controller from magnetic base:



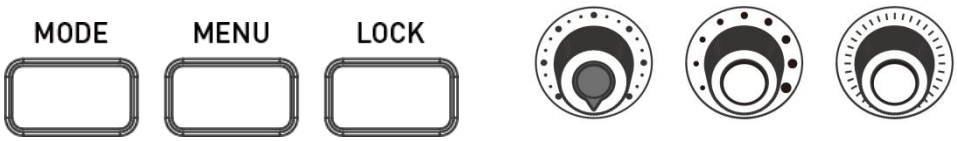
Grip the bottom of the wired controller and lift it upward to detach the wired controller from the magnetic base.

4. Operating Instructions

When connected to the light fixture, the wired controller will display the connected fixture's lighting mode or menu.

After the wired controller is connected to the light fixture, turn on the power switch of the light fixture to power up the wired controller.

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



4.1. Lighting Mode Control

4.1.1. 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.

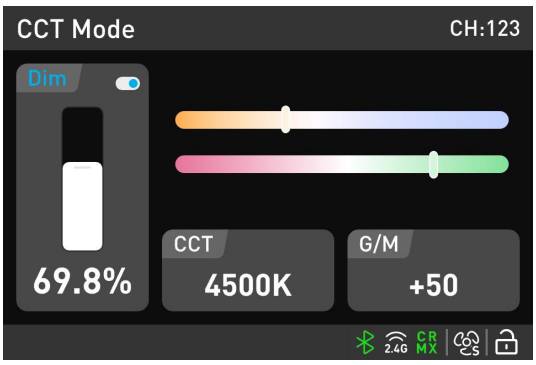
4.1.2. Mode Operation

(1) CCT Mode

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

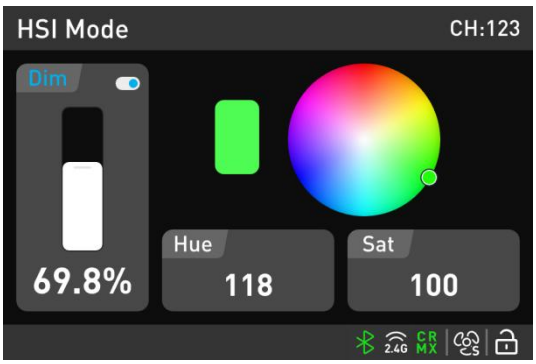
Rotate the **middle knob** to adjust the CCT. Press the **middle knob** to switch between the CCT presets; the available presets depend on the CCT range of the connected light fixture.

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



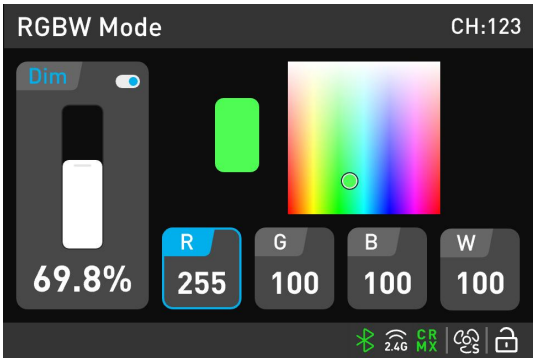
(2) HSI Mode

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



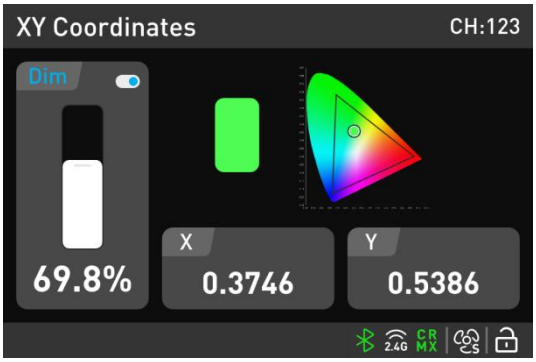
(3) RGBW Mode

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.



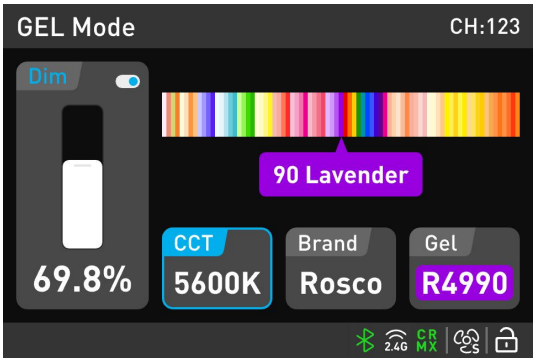
(4) XY Coordinates

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. Adjusting the X and Y coordinates allows the light fixture to output the corresponding color on the CIE 1931 chromaticity diagram.



(5) Gel Mode

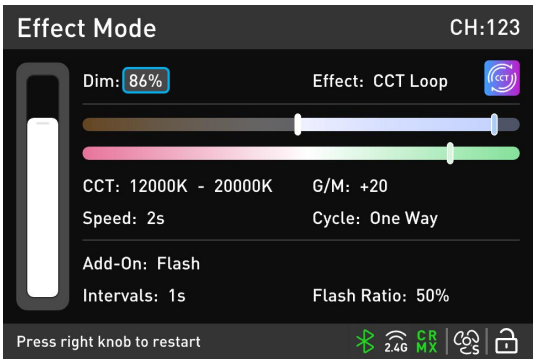
Rotate the **left knob** to adjust brightness, the **right knob** to select CCT, Brand or Gel, and the **middle knob** to adjust parameters. When CCT is selected, press the **middle knob** to switch between CCT presets. When Brand is selected, press the **middle knob** to switch between brands.



(6) Effect Mode

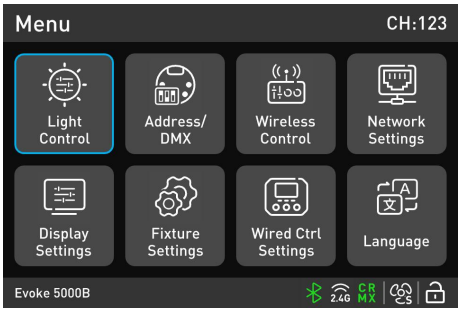
Rotate the **right knob** to select the needed effect. Press the **right knob** to enter the interface to adjust parameters.

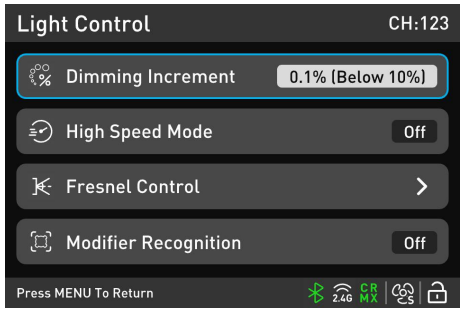
In the effect interface, rotate the **right knob** to select a parameter, and the **middle knob** to adjust the parameter value.

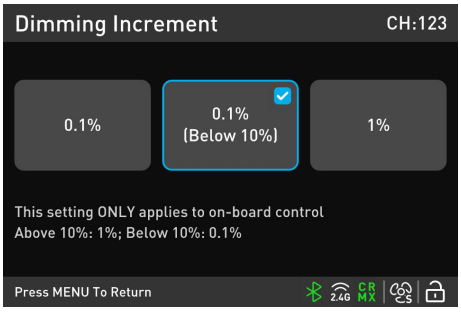


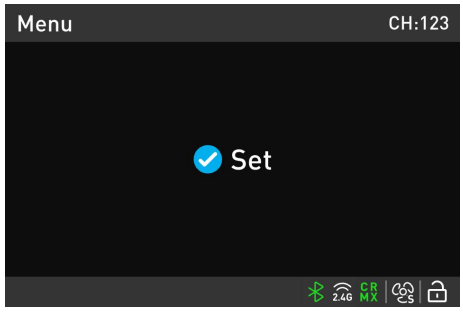
4.2. Menu Operation

In the menu, rotate the **right knob** to select a menu item, and press the **right knob** to enter the next level or confirm the selection. In the level 2 or level 3 menu, press the **MENU button** to return to the previous menu.









4.3. Firmware Update

Insert the USB drive that with the new firmware files into the wired controller's USB port. Press and hold the **MENU button**, and plug in the connection cable (please ensure the other end is connected to the light fixture). Turn on the light fixture's power switch, and the wired controller will enter the firmware update interface.

▲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.

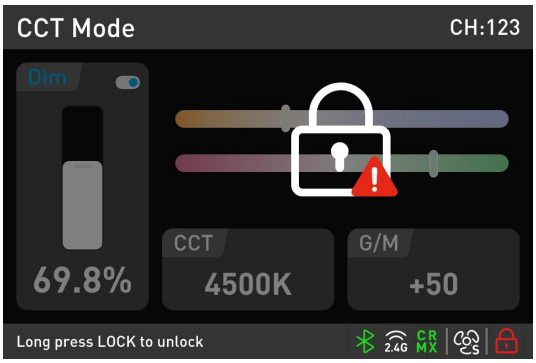
⑥ If all the above steps have been completed and the firmware files still cannot be found, please format the USB drive again.

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

4.4. Lock

When connected to the light fixture, long press the **LOCK button** for 3s to lock the lighting state of the connected fixture. Long press the **LOCK button** again for 3s to unlock.

The lock setting only locks the control panel; the fixture can still be controlled via DMX signals (including Art-Net and sACN) and all wireless signals (including CRMX, wireless DMX, 2.4G, and Bluetooth), which can still change the interface display on the wired controller.



▲Note: When the wired controller is connected to the light fixture, its lock/unlock state will be synchronized. If the fixture is locked, the wired controller will be automatically locked. If the fixture is unlocked, the wired controller will remain unlocked. To unlock, long press the **LOCK button** for 3s.

5. Troubleshooting for Common Issues

Issues	Troubleshooting Guide
The wired controller can't power up.	1. Please check whether the connections between the cable and light fixture are loose. 2. Please check whether the wired controller is connected to the light fixture.
The display screen is on, but the fixture can't be operated.	Please check whether the screen shows " 🔒 " . Long press the LOCK button for 3s to unlock.

Please scan the QR code for more details.

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