Safety notes

To ensure your safety and that of others, please ensure you read the following safety advice before using this product. Please pay attention to the precautions highlighted in the manual. The product should be checked prior to use and not used if damaged.



Do not place flammable materials near the constant video light



Do not use in the rain, a humid environment, or other adverse weather conditions.



Please use a blower brush or clean cloth to remove dust and moisture.



Keep the working environment clear of cables . Keep this product out of reach of children and pets.



Do not expose the product to direct sunlight for long periods of time. The product should not be stored in direct sunlight.



Please turn off and remove the power supply before maintenance, and installing or removing accessories.



Do not cover the ventilation holes at any time.



Do not use chemicals or liquids to clean the lamp. Do not immerse any part of the device in liquid.



Do not attempt to disassemble or repair the device.



The constant video light will heat up during use. Do not touch with your hands.

Overview

EN

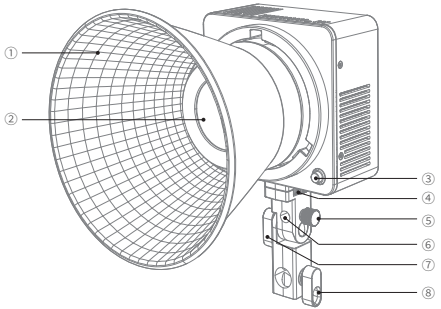
The NEEWER HB80C portable continuous light features a new full-color light source that provides strong illumination while remaining lightweight. It's powered by a lithium-ion battery, making it easy to take anywhere.

Whether you’ re indoors or outdoors, the HB80C delivers stable, high-quality lighting. It offers multiple lighting modes for different shooting needs, and its easy-to-use controls make operation a breeze.

The HB80C is compatible with Bowens mount accessories, allowing it to fit seamlessly into your existing lighting setup. It has dual power modes, including a built-in 72Wh lithium battery and PD adapter charging, so you’ ll have reliable lighting wherever you go.

With an advanced battery management system (BMS), the HB80C supports bidirectional Type-C power supply and even emergency charging for your photography equipment, making it perfect for all your creative projects in photography and video shooting.

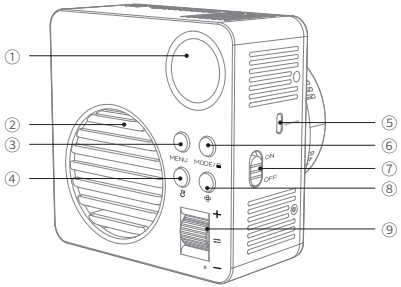
Product Illustration



① Standard Reflector
② LED Diffuser
③ Reflector Lock
④ Support Locking Knob
⑤ Umbrella Locking Knob
⑥ Umbrella Socket
⑦ Tilting Adjustment Knob
⑧ Stand Mount Locking Knob

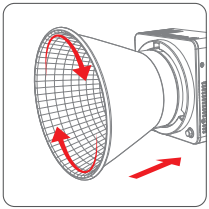
Product Illustration

EN

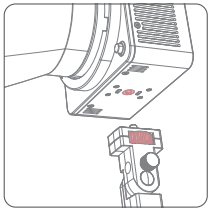


① LCD Panel
② Fan
③ Short Press: Enter Menu
④ Short Press: Check Temperature
⑤ USB Type-C Port
⑥ Short Press: Switch Modes; Long Press: Lock Buttons
⑦ Power Switch
⑧ Short Press: Select Fan Modes
⑨ Short Press: Select Parameters; Scroll: Adjust Parameters

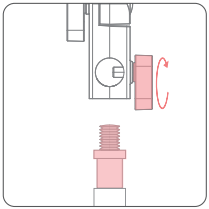
Installation Instructions



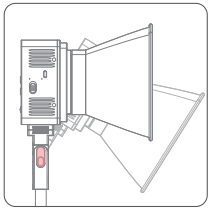
① Align the three metal tabs of the reflector with the three gaps on the front of the studio light, push the reflector inwards, and rotate it clockwise until it is securely locked.



② Attach the support mount to the studio light and secure it by rotating the knob.

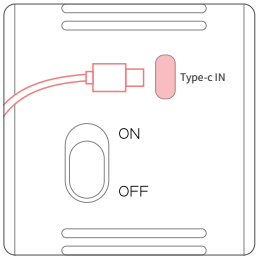


③ Insert the adapter base onto the light stand and tighten the fixing knob.



④ Adjust the lighting angle of the studio light by rotating the angle adjustment knob.

How to Use



- Power Supply

Use a Type-C cable to charge the LED light.

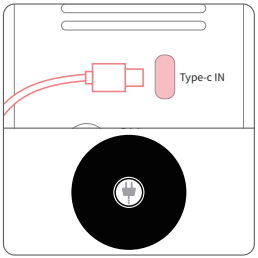
※ Supports use while charging.

※ Recommended to use a PD adapter of 100W or above.

When powered on:

Adapter	Mode	Long-duration Use
PD100W	Booster mode, normal mode, silent mode, charging	YES
PD65W	Normal mode, silent mode, charging	NO
⩽PD45	Normal mode, silent mode	NO

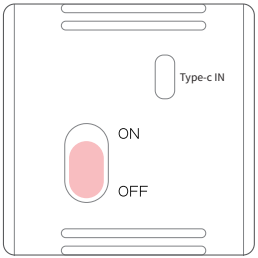
Charging without power on:
Supports most chargers on the market



- Discharge

Using a Type-C cable to power other electrical products.

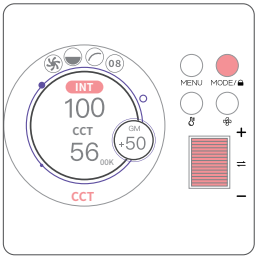
The “ ” symbol appears on the screen to indicate the cable is drawing power from the device.



- Powering On/Off

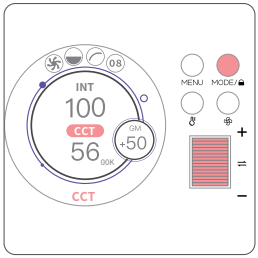
Move the switch to either the ON/OFF position to switch on or off.

How to Use



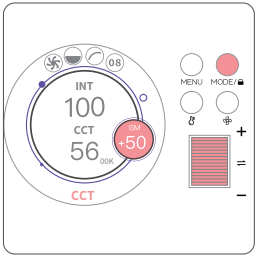
- Brightness Adjustment

Short press the **MODE** button, select any mode, then press the " ⇌ " button to select the "**INT**" option, and adjust the brightness value by rotating the "**+ -**" wheel.



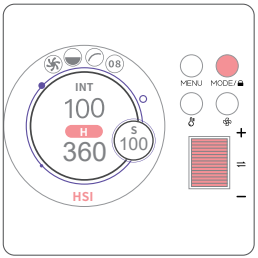
- Color Temperature Adjustment

Short press the **MODE** button to select CCT mode, then press the " ⇌ " button to select the "**CCT**" option, and adjust the color temperature value by rotating the "**+ -**" wheel.



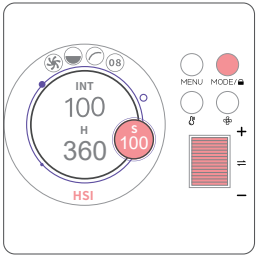
- GM Compensation Adjustment

Short press the **MODE** button to select **CCT** mode, then press the " ⇌ " button to select the "**GM**" option, and adjust the GM compensation value by rotating the "**+ -**" wheel.



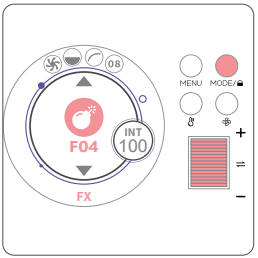
- Hue Adjustment

Short press the **MODE** button to select **HSI** mode, then press the " ⇌ " button to select the "**H**" option, and adjust the hue value by rotating the "**+ -**" wheel.



- Saturation Adjustment

Short press the **MODE** button to select **HSI** mode, then press the " ⇌ " button to select the "**S**" option, and adjust the saturation value by rotating the "**+ -**" wheel.



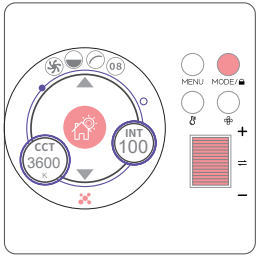
- Special Effect Adjustment

Short press the **MODE** button to select **FX** mode, then press the " ⇌ " button to select the desired scene, and adjust the special effects by rotating the "**+ -**" wheel.

Available Lighting Effects

F01	Lightning	F02	Paparazzi	F03	Defective bulb
F04	Explosion	F05	Welding	F06	CCT Flash
F07	Hue flash	F08	CCT Pulse	F09	HUE Pulse
F10	Cop car	F11	Candlelight	F12	HUE loop
F13	CCT loop	F14	INT loop	F15	TV screen
F16	Fireworks	F17	Party	F18	Music

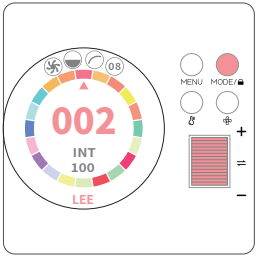
How to Use



- Light Source Mode

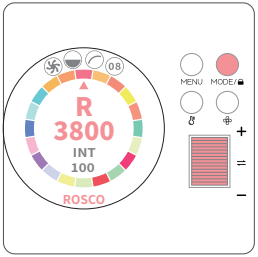
Short press the **MODE** button to select the " " mode, then press the " " button to select the light source adjustment option, and adjust the light source by rotating the "**+ -**" wheel.

Sunrise/Sunset 1800K	Candlelight 1900K	Dawn 5000K	Daytime 5500K	Daylight 6500K	Cloudy 7000K
Moonlight 8000K	Blue Sky 10000K	Incandescent Lamp 3200K	Video Lamp 3300K	Modeling Lamp 3400K	5600 Dysprosium Lamp 5600K
Daylight Dysprosium Lamp 6000K	Sodium-Vapor Lamp 2200K	Warm White Halogen Lamp 2700K	White Halogen Lamp 4300K	Xenon Short -Arc Lamp 6200K	



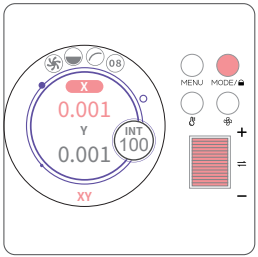
- LEE Mode

Short press the **MODE** button to select **LEE** mode, then press the " ⇌ " button to select the color gel adjustment option, and choose the brand and color number by rotating the "**+ -**" wheel.



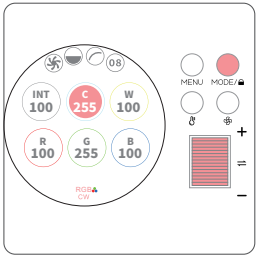
- ROSCO Mode

Short press the **MODE** button to select **ROSCO** mode, then press the " ⇌ " button to select the color gel adjustment option, and choose the brand and color number by rotating the "**+ -**" wheel.



- XY Mode

Short press the **MODE** button to select **XY** mode, then press the " ⇌ " button to select **X** or **Y**, and adjust the value by rotating the "**+ -**" wheel.



- RGBCW Mode

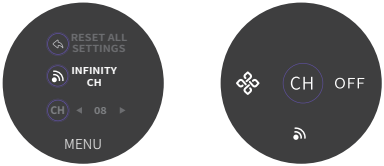
Short press the **MODE** button to select **RGBCW** mode, then press the " ⇌ " button to select **R/G/B/C/W** value, and adjust the value by rotating the "**+ -**" wheel.

- Menu

Icon	Function	Setting	Description
P	45W		Current power
i	V1.0.0		Current software version
	RESET ALL SETTINGS	YES	Restore factory settings
		NO	
	INFINITY CH		Infinity mode
		CH	2.4G mode
		OFF	Disable wireless connection
	INFINITY RESET	YES	Infinity Reset
		NO	
CH	◀ 99 ▶	1~99	Channel settings
	◀ ▶		Linear dimming curve
			S-curve dimming curve
			Logarithmic dimming curve
			Exponential dimming curve
	External Discharge	ON	Enable External Discharge Function
		OFF	Disable External Discharge Function

How to Use

- 2.4G Mode

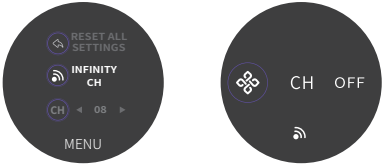


① Short press the **MENU** button to enter the menu, rotate " **+ -** " wheel to select " ", press " ⇄ " to enter the sub menu, rotate " **+ -** " wheel to select CH, then press " ⇄ " to confirm and exit.

② Short press the **MENU** button to enter the menu, rotate " **+ -** " wheel to select **CH**, press " ⇄ " to enter the sub menu, rotate " **+ -** " wheel to select from CH00 to CH99, then press " ⇄ " to confirm and exit.

③ In 2.4G mode, if multiple LED lights are set to the same channel (e.g., CH88), adjusting one light will automatically sync the others on that channel.

- Infinity Mode



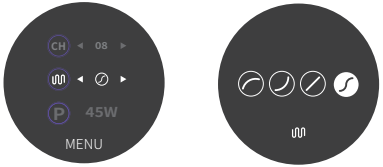
How to Use

① Short press the **MENU** button to enter the menu, rotate "**+ -** " wheel to select " ", press " " to enter the sub menu, rotate "**+ -** " wheel to select " " mode, then short press " " to confirm and exit.

② Use the NEEWER app to control the LED light via Bluetooth. For specific instructions, please scan the QR code on the "APP Guide Page" for more information.

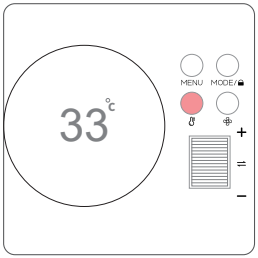
※ Before connecting the app, please reset the Infinity function on the device. Short press the **MENU** button to enter the menu, rotate "**+ -** " wheel to select INFINITY RESET to reset the Infinity connection.

- Dimming Curve



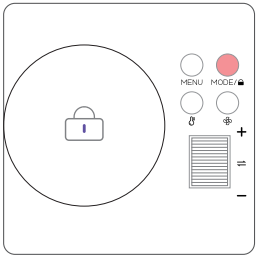
Press the **MENU** button to open the menu, rotate the "**+ -**" wheel to select " ", then press " " to enter the submenu. Use the "**+ -**" wheel to choose between S-curve, Log curve, Exp curve, or Linear curve, then press " " to confirm and exit.

How to Use



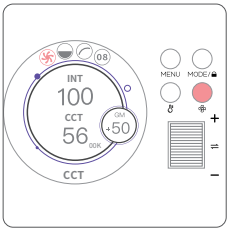
- Temperature Check

Short press " " to view the current temperature.



- Control Panel Lock

Long press " " to lock or unlock the buttons on the control panel.



- Heat Dissipation Mode

Short press " " to switch between silent mode, normal mode, and booster mode.

※ For the booster mode, please use a PD100W charger.

Heat dissipation mode	Display symbols	Maximum power
Silent mode		45W
Normal mode		65W
Booster mode		80W

- Disable External Discharge Function

When external discharge occurs upon connecting a power bank, disable the external discharge function in the menu to charge the light.



- Warning Prompts

Overcharge protection	Insufficient power
HVP Overvoltage protection	LVP Undervoltage protection
Fan abnormality	NTC NTC abnormality
OTP Over-temperature protection	

Specifications

Model	HB80C
Input	PD3.0:5V=3A 9V=3A 12V=3A 15V=3A 20V=3.25A 20V=5A
Output	PD3.0:5V=3A 9V=3A 12V=3A 15V=3A 20V=3.25A
Built in battery	14.4V, 5000mAh, 72Wh
Charging time	120min
Battery life	Normal mode: 74 minutes Silent mode: 94 minutes
Power	Booster mode: 80W / Normal mode: 60W / Silent mode: 45W
Lighting mode	CCT/HSI/RGBCW/XY/GEL/SOURCE/FX
Color rendering index	CRI ⩾95，TLCI ⩾97
Brightness range	0~100
Color temperature range	2500K~7500K
X/Y color coordinates	0.0000-0.8000
Special effects	18
GM value	-50~+50
Hue	0~360
Saturation	0~100
R/G/B/C/W	0~255

Specifications

Light source	17

Illuminance:

Color temperature	Distance	Light without covering	Standard Reflector
2500K	0.5m	9850 Lx	34000 Lx
	1m	2890 Lx	8280 Lx
3200K	0.5m	10800 Lx	37600Lx
	1m	3250 Lx	9090 Lx
4400K	0.5m	12300 Lx	43000 Lx
	1m	3720 Lx	10400 Lx
5600K	0.5m	11900 Lx	41700 Lx
	1m	3710 Lx	10000 Lx
6500K	0.5m	11400 Lx	39700 Lx
	1m	3540 Lx	9610 Lx
7500K	0.5m	11100 Lx	38700 Lx
	1m	3390 Lx	9370 Lx
R	0.5m	3600 Lx	10000 Lx
	1m	915 Lx	2550 Lx
G	0.5m	8000 Lx	24000 Lx
	1m	2120 Lx	6020 Lx
B	0.5m	2300 Lx	6500 Lx
	1m	580 Lx	1640 Lx

Battery warning

1. Do not attempt to detach, modify, and repair the battery by yourself. Any unauthorized operation may cause battery leakage, overheating, burning, and other hazards.
2. Be sure to use the provided or certified chargers to prevent overcharging and shortcuts.
3. If unusual charging speed and indicator flashing occur, please stop charging and contact our customer service immediately.
4. Keep away from inflammable and explosive items.

Notes

1. Avoid dropping, or subjecting the product to strong physical impact.
2. Do not look directly at the light when in use, to prevent damage to eyesight.
3. Keep the product away from flammable or explosive materials.
4. Avoid using the product in rainy or humid environments.
5. Do not touch the product with wet hands.
6. Remember to turn off the power when not in use.
7. Store the product in a well ventilated, dry area, away from heat sources and magnetic fields, if not in use for a long time.