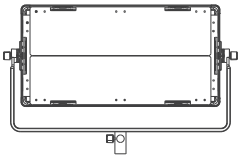
Overview

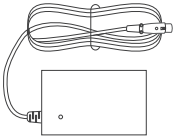
Thanks for choosing NEEWER® !

AP100B is a professional LED panel video light, characterized by high brightness, high color fidelity, and wide color temperature range, supporting dual power options. It provides 3 lighting modes: CCT/FX/SOURCE (Source Matching), along with 12 pre-set special effects to adapt to diverse scenarios.
It supports APP/control panel/2.4G/DMX control to meet different professional lighting setups.

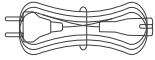
Package Contents



Video Light × 1



Power Adapter × 1



Power Cable × 1



Hanging hook×2

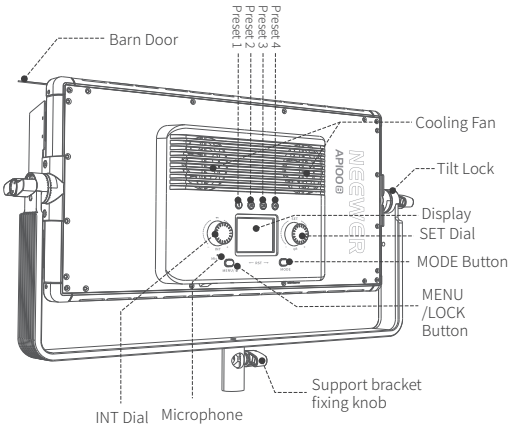


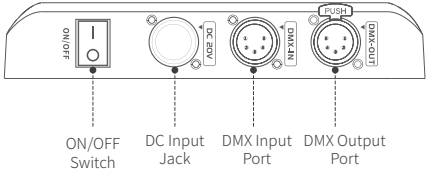
Carrying Bag × 1



User Manual × 1

Product Illustration





Introduction to Functions

- Preset 1/2/3/4

From within the Current Mode, Long Press:



Saves the current settings

Short Press:



Quickly recalls the last saved settings

- INT Dial

Short press when the menu is displayed: To exit the menu
Turn: To increase (clockwise) or decrease (counterclockwise) the brightness level

- SET Dial

Short Press: To navigate and select items in the **MENU**
Turn: To change settings in the sub-menu or scroll through the **MENU**

- MENU/LOCK Button

Short Press: To enter the **MENU**
Long Press: on/off

- Mode Button

Short press the button to switch between the lighting modes CCT, FX, and SOURCE.

- Bluetooth Reset

Long Press: MENU/ button + MODE button

C. Fn: Custom Functions

EN

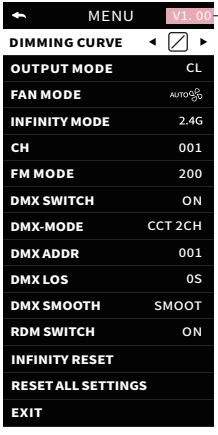
The custom function can be personalised based on the chart below

Custom Function Name	Function	Icon	Description
DIMMING CURVE	Dimming Curve		S
			Log
			Exp
			Linear
OUTPUT MODE	Output modes	CL	Constant brightness mode
		CP	Maximum output mode
FAN MODE	Fan mode	HIGH	High-speed mode
		MED	Mid-speed mode
		MUTE	Silent mode
		AUTO	Automatic mode
INFINITY MODE	Wireless mode		Start Infinity connection
		2.4G	Enable CH
CH	Channels	000-099	Channel numbers: 000-099
FM MODE	Frequency mode	180-220 (±2)	Increment: 100Hz. Helps eliminate flickers in high shutter speed shooting.
DMX SWITCH	DMX on/off	ON	On
		OFF	Off
DMX-MODE	DMX modes	CCT 2CH	5 modes
		Source 2CH	
		FX 6CH	
		ULtimate mode 7CH	
		NEEWER mode 7CH	
DMX ADDR	DMX channels	001-512	Channel numbers: 001-512

C. Fn: Custom Functions

Custom Function Name	Function	Icon	Description
DMX LOS	DMX signal loss	0 S	Off immediately
		60 S	Off slowly
		180 S	Off after 2 minutes
		SAVE	Save
DMX SMOOTH	Smooth-ness of DMX	SMOOTH	Smooth
		SUPER SMOOTH	Super smooth
RDM SWITCH	RDM on/off	OFF	Off
		ON	On
INFINITY RESET	Infinity reset	OFF	Off
		YES	Yes
		NO	No
RESET ALL SETTINGS	Factory reset	YES	Yes
		NO	No
EXIT	Exit the menu	—	—

Menu UI



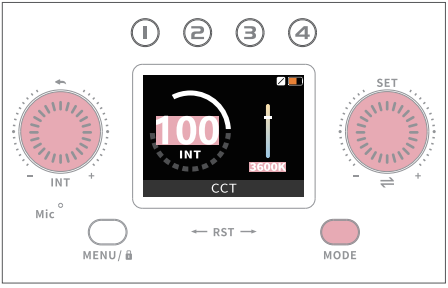
3 Ways to Exit the Menu:

1. Short press the ↩ **INT** dial.
2. Short press the **MODE** button.
3. Select "**EXIT**" and short press the **SET** dial.

Overview of Various Modes

EN

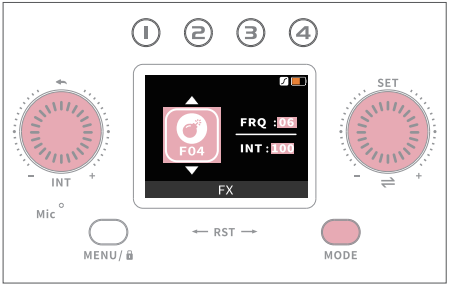
CCT



Short press the '**MODE**' button to enter '**CCT**' mode. Rotate the **SET** knob to adjust the color temperature from 2500K to 8500K, or rotate the **INT** knob to adjust the brightness from 0%~100% in 0.1% increments.

Overview of Various Modes

FX



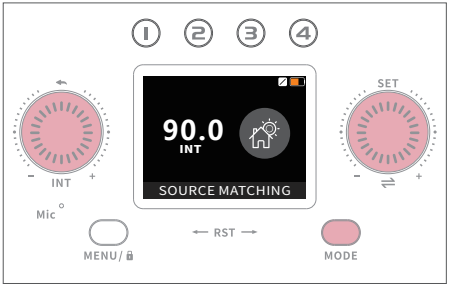
Short press the '**MODE**' button to switch to '**FX**' mode. Short press the **SET** knob to select one of the FX effects , or rotate to select different effect modes/light speeds. Turn the **INT** knob to adjust the brightness from 0%~100% in 0.1% increments.

Scene modes



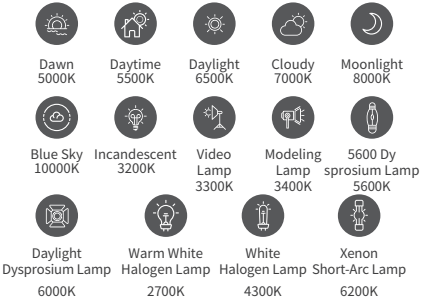
Overview of Various Modes

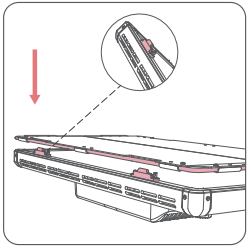
SOURCE MATCHING (SOURCE MATCHING Mode)



Short press the '**MODE**' button and switch to '**SOURCE MATCHING**' mode. Turn the **SET** knob to switch among 14 light sources, then rotate the **INT** knob to adjust the brightness within the range of 0%~100% in 0.1% increments.

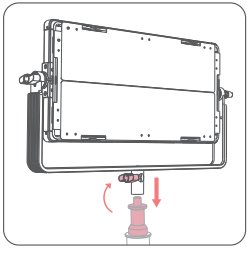
Light Source Modes





① Installing the Barn Door

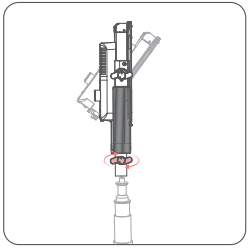
Place the barn door on top of the lamp body with the slots on all four sides. Press down to firmly lock the barn door in place.



② Installing the Light Stand

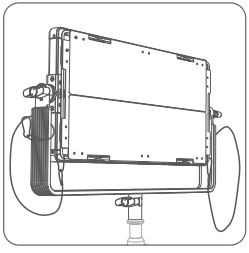
Secure the U-shaped bracket on top of the light stand. Rotate the bracket and tighten the fixing knob to secure it.

Installation Guide



③ Adjust the angle of the LED light as desired. Rotate the fixing knob clockwise to tighten the bracket.

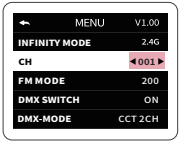
Note: The light stand is not included in the accessories and needs to be purchased separately.



④ Installing the Hanging Hook

Attach the hooks to the bracket and around the baffle.

- Channel Settings

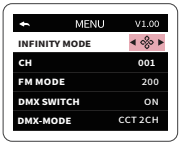


—2.4G Connection—
Short press the **MENU** button to enter the menu interface. Rotate the **SET** knob to **INFINITY MODE**, then short press the **SET** button and rotate again to select the **2.4G** option. Short press the **SET** button again to enable the channel.

Rotate the **SET** knob to **CH**, short press the **SET** button to set the channel, and short press again to confirm the channel.

※ In 2.4G mode, when multiple LED lights are set to the same channel (e.g., CH:08), adjusting one light's settings will also modify those the other lights on the same channel synchronously.

- Mobile App Control



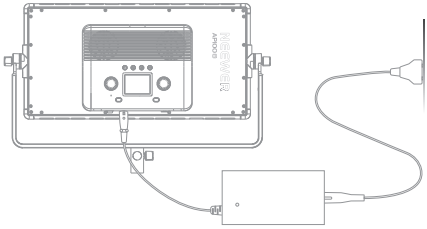
—Infinity Connection—
Short press the **MENU** button to enter the menu interface. Rotate the **SET** knob to INFINITY mode, then short press the **SET** button and rotate again to select the option. Press the **SET** button again to enter the Infinity connection.

To control the device through a mobile phone, you need to connect the device using the NEEWER app. For specific instructions, please scan the QR code on the APP Guide Page.

※Before connecting through the app, please reset the Infinity mode. From within this mode, press the MENU/ button + MODE button, or enter the menu and select the INFINITY RESET option to reset the Infinity.

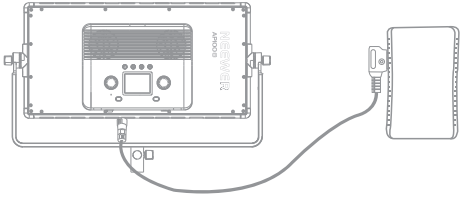
How to Use

Method 1: Powering with the included power adapter. Plug one end of the adapter into the panel light's power socket and connect the other end to a power outlet. Turn on the power switch (**ON**) and the screen will display a " " icon.

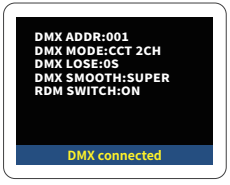


※ When unplugging the power cord, press down the metal tab on the connector to remove it.

Method 2: Powering with a V-mount battery. Connect one end of the D-tap to four-pin XLR cable to the panel light's power socket and the other end to a V-mount battery. Turn on the power switch (**ON**) and the screen will display a " " icon.

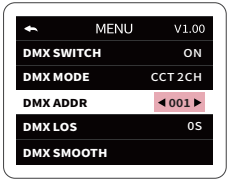


※ The D-tap to four-pin XLR cable needs to be purchased separately.



● DMX Connection (when connecting to a console)

Long press the MENU button to enter the MENU interface. Select the **DMX** option and set it to **ON**. Connect the DMX cable as shown in the left diagram to connect to the DMX console.



● DMX Channel Adjustment (when connected to a console)

◎ When the DMX connection interface is displayed, simply rotate the **SET** knob to adjust the channel.

◎ Long press the MENU button to enter the MENU interface. Select the **DMX ADDR** option to adjust the channel.

● Disconnecting from the DMX console

◎ Unplug the cable connecting the DMX console and the light.
◎ Long press **MENU** Button to enter the **MENU** interface and set the DMX status as "**OFF**".

● Channel Selection:

When DMX is activated, you can connect to the console. Set the console on a matching DMX channel, and it will allow you to perform various function modifications. This setup is suitable for connecting one or multiple consoles.

*In DMX mode, the control channel is 1 by default.
*In DMX mode, the available channels are 1-512.
*If the DMX signal is lost, the light will recall the last signal used.

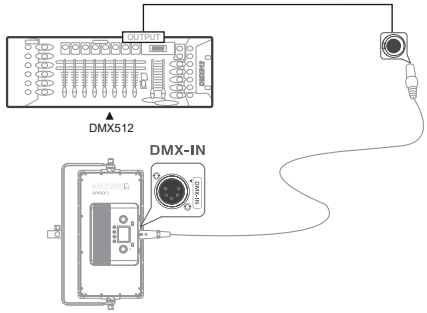
● DMX console control:

※ In DMX mode, please refer to the "AP100B DMX Channel Table" appendix for related control schemes.

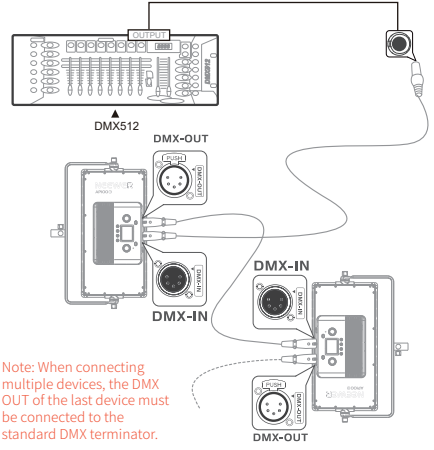
1. Connect the DMX cable to DMX console.
2. Connect the DMX cable to light.

● DMX connection diagraph

One console connection ►



Multiple console connection ►

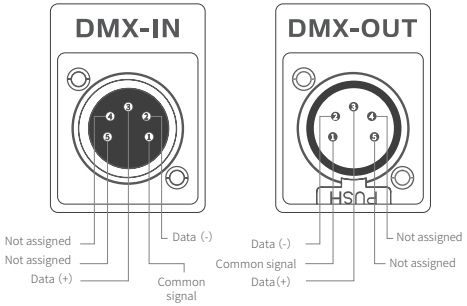


Note: When connecting multiple devices, the DMX OUT of the last device must be connected to the standard DMX terminator.

How to Use

- When purchasing DMX cables from a third party, please check the interface protocol and make sure it is compatible with the light.

DMX interface protocol is shown below:



Caution

EN

1.Avoid staring directly at the lights to prevent harm to your vision.

2.Ensure efficient heat dissipation by not covering the vents with clothes or other objects.

3.Refrain from touching the product with wet hands, as it may damage the circuit panel.

4.Never disassemble the product or attempt to modify the circuit panel.

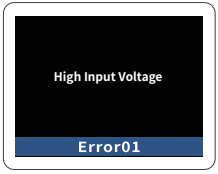
5.Keep the product away from direct sunlight to prevent potential damage.

6.Always disconnect the power cord when the product is not in use.

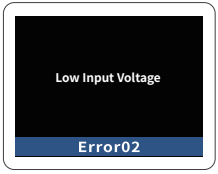
7.After use, allow the product to cool off before storing it in a bag to avoid heat-related damage to the LEDs.

Troubleshooting

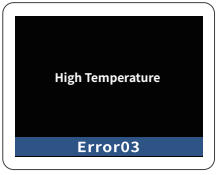
- High voltage protection



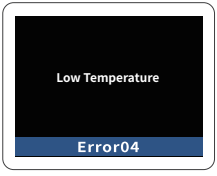
- Low voltage protection



- High temperature protection



- Low temperature protection



Specifications

EN

Model	AP100B
Number of LEDs	960PCS
Output	100W
Color Rendering Index	CRI:⩾96 TLCI⩾97
Maximum Illuminance	38600Lx@0.5M (6500K) 12200Lx@1M (6500K)
Color Temperature	2500K~8500K ((100K Increments)
Dimming Range	0%~100%
Number of Scenes	13
Light Source Matching	14
Power Supply	Power Adapter (20V) 14.8V/26V from V-Mount Battery
Beam Angle	45°
Control Methods	APP, 2.4G, Panel, DMX control
Operating Temperature	14-104°F/-10-40°C
Dimensions	20.9"x13.4"x3.4"/530x340x86mm
Weight	7.9lb/3.58kg