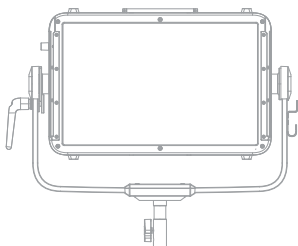


For your safety and the safety of others, please read the following information before use and pay attention to safety warnings highlighted in this manual. Always inspect the product before use and do not use it if parts are damaged.

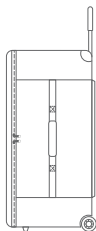
- ※ **Keep the lighting unit away from flammable materials.**
- ※ **Do not use in rain, high humidity, or other severe weather conditions.**
- ※ **Remove dust and moisture using a blower brush or a clean, dry cloth.**
- ※ **Keep the operating area clear of cables and out of reach of children and pets.**
- ※ **Avoid prolonged exposure to direct sunlight for extended periods.**
- ※ **Always turn off and disconnect the power supply before maintenance, installation, or removal of accessories.**
- ※ **Do not block or cover ventilation openings during use.**
- ※ **Do not clean with chemicals or liquids. Never immerse any part of the product in water.**
- ※ **Do not attempt to disassemble or repair the product yourself.**
- ※ **The product may become hot during use; avoid touching it with bare hands.**

## Product Overview

The AP300C is a professional LED panel light with dual power options. It offers multiple lighting modes, including CCT bi-color, HSI full color, RGBCW, GEL, FX effects, XY, SOURCE, and PIXEL modes, providing versatile creative possibilities. The light can be controlled via the app, onboard panel, 2.4G wireless system, or professional DMX console, meeting the diverse needs of professional photographers and videographers.



LED Light ×1



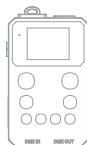
Trolley Case ×1



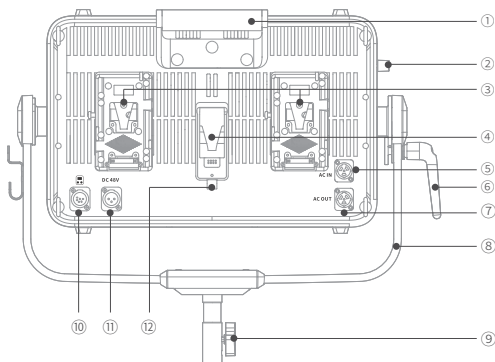
Controller  
Connection Cable ×1



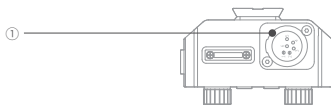
Power Cable ×1

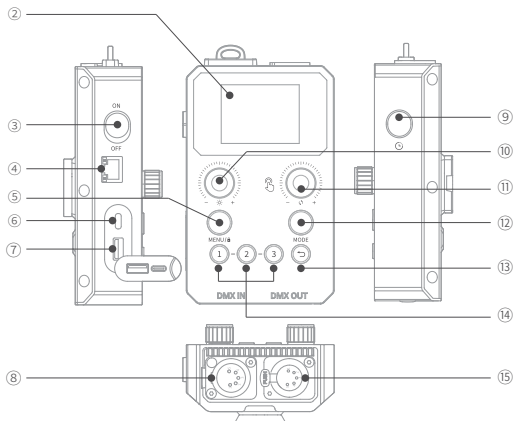


Controller ×1

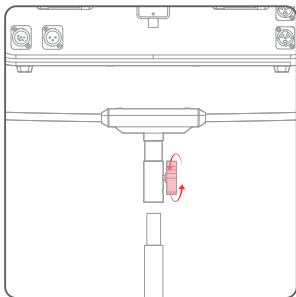


- ① Handle    ② Barn Door Fixing Knob
- ③ V-Mount Battery Plate    ④ Controller Hook    ⑤ AC Input
- ⑥ Angle Adjustment Knob    ⑦ AC Output
- ⑧ U-Bracket    ⑨ U-Bracket Fixing Knob
- ⑩ Light Control Port    ⑪ 48V DC Input
- ⑫ Controller Release Button

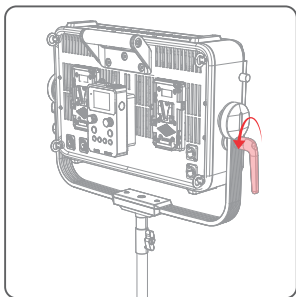




- ① Light Control Port    ② Display    ③ Power Button
- ④ Ethernet Port
- ⑤ Short Press: Menu Button; Long Press: Key Lock
- ⑥ USB-C Port    ⑦ USB-A Port    ⑧ DMX Input
- ⑨ Sleep Button    ⑩ Dimmer
- ⑪ Short Press: Parameter Select; Rotate: Parameter Adjust;  
Long Press: Save Current Parameter
- ⑫ Mode Select    ⑬ Back Button    ⑭ Shortcut Button
- ⑮ DMX Output



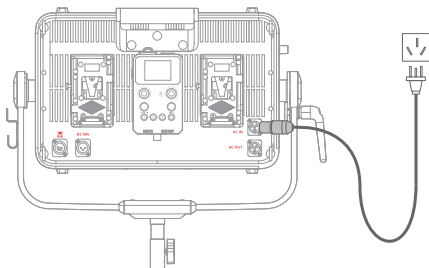
- ① Attach the U-shaped bracket to the light stand and tighten the knob to secure in place.



- ② Adjust the lighting angle using the handle.

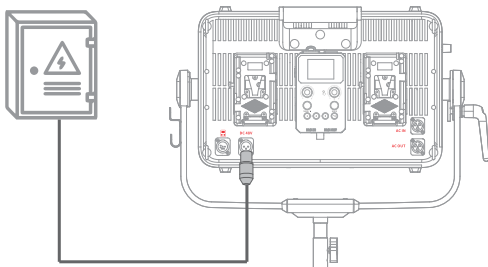
## ● Power Supply

Method 1. Plug the power cable into the 'AC IN' port of the light, then connect it to a power outlet.

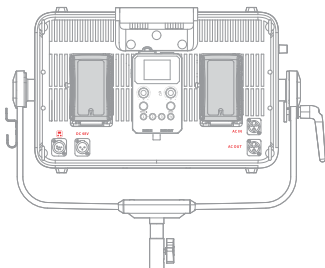


**Note:** Do not touch the AC OUT port while the unit is powered on. When not in use, cover the AC OUT port with the supplied silicone cap.

Method 2. Use a 48V DC power supply (requires a separately purchased power box and cable).

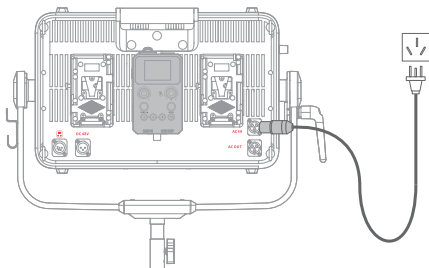


Method 3. V-mount battery (sold separately).

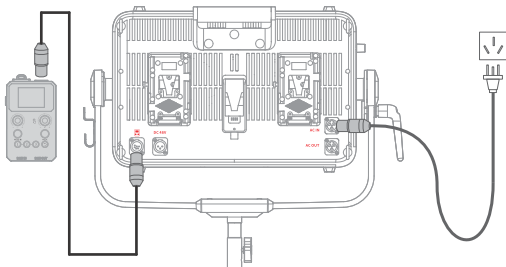


## ● Controller Connection

Method 1: Attach the controller to the back of the light. No connection cable is required for operation.

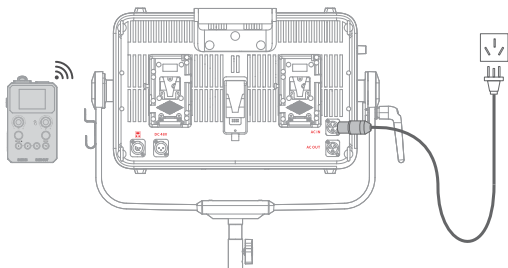


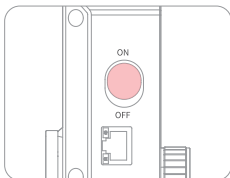
Method 2: Connect the controller to the light using the supplied connection cable for flexible operation.



Method 3. Wireless control.

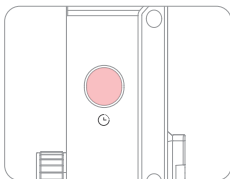
For first-time use, attach the controller to the back of the light, then power it on to pair. The pairing is complete when the light turns on.





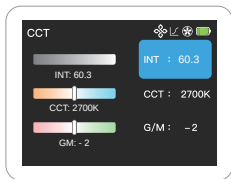
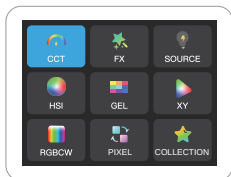
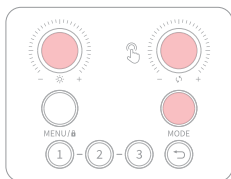
- **Power On/Off**

Slide the <ON/OFF> switch to turn the light on or off.



- **Standby**

When the light is on, short-press the <⌚> button to enter or exit standby mode.

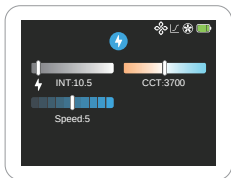
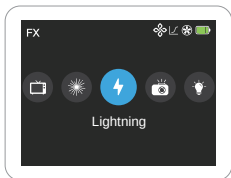
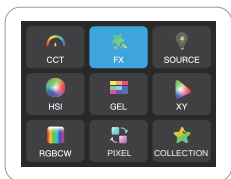
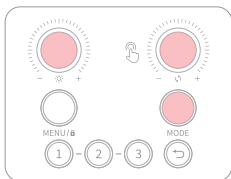


## ● CCT Mode

① Short-press the <MODE> button to open the mode menu. Press it again or rotate the <↻> knob to select CCT mode, then short-press <↻> to confirm and enter the mode.

② Turn the <☀> knob to adjust brightness.

③ Short-press the <↻> button to select either color temperature or GM. Then rotate the <↻> knob to adjust their values.



## ● FX Mode

- ① Short-press the **<MODE>** button to open the mode menu. Short-press it again or rotate the **<Ⓜ>** knob to select FX mode, then short-press **<Ⓜ>** to confirm and enter the mode.
- ② Turn the **<Ⓜ>** knob to select a scene.
- ③ Short-press **<Ⓜ>** to access parameter adjustment of the selected scene, then short press **<Ⓜ>** again to select a specific parameter, and rotate **<Ⓜ>** to adjust its value.
- ④ Rotate the **<Ⓜ>** knob to adjust brightness.

## Scene modes



Lightning



Paparazzi


Defective  
bulb


Explosion



Welding



CCT Flash



Hue flash



CCT Pulse



HUE Pulse



Cop car



Candlelight



HUE loop



CCT loop



INT loop



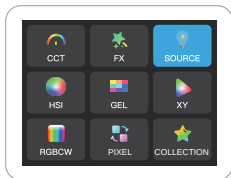
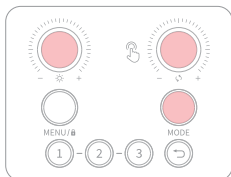
TV screen



Fireworks

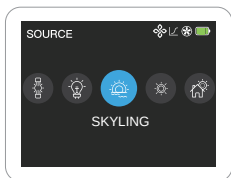


Party

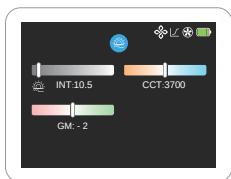


## ● Light Source Mode

- ① Short-press the **<MODE>** button to open the mode menu. Short-press it again or rotate the **<↻>** knob to select SOURCE mode, then short-press **<↻>** to confirm and enter the mode.



② Rotate the <↻> knob to select different light sources.



③ Short-press <↻> to access parameter adjustment of the selected light source, then short press <↻> again to select a specific parameter, and rotate <↻> to adjust its value.

④ Rotate the <☀> knob to adjust brightness.



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



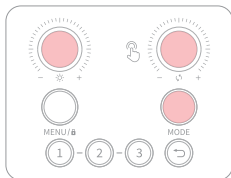
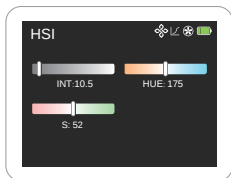
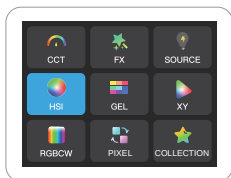
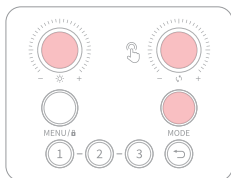
Warm White  
Halogen Lamp  
2700K



White Halogen  
Lamp  
4300K



Xenon Short-  
Arc Lamp  
6200K



## ● HSI Mode

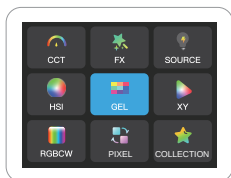
- ① Short-press the **<MODE>** button to enter the mode menu, then short press it again or rotate the **<↶>** knob to select HSI mode. Finally, short press **<↶>** to confirm and enter the mode.

- ② Short-press **<↶>** to select HUE or S, then rotate the **<↶>** knob to adjust their values (hue/saturation).

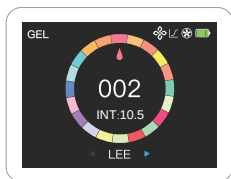
- ③ Rotate the **<☀>** knob to adjust brightness.

## ● Gel Mode

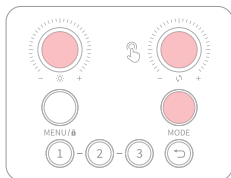
- ① Short-press the **<MODE>** button to open the mode menu. Short-press it again or rotate the **<↶>** knob to select GEL mode, then short-press **<↶>** to confirm and enter the mode.



- ② Short-press the <↻> button to select LEE or ROSCO, then rotate <↻> knob to choose the desired gel color.

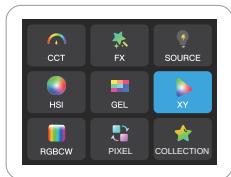


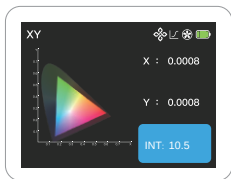
- ③ Rotate the <☀> knob to adjust brightness.



### ● XY Mode

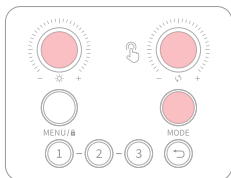
- ① Short-press the <MODE> button to open the mode menu. Short-press it again or rotate the <↻> knob to select XY mode, then short-press <↻> to confirm and enter the mode.





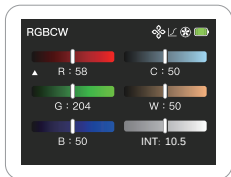
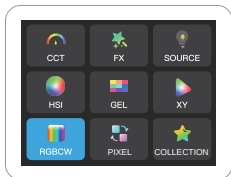
- ② Short-press the <↺> button to select X or Y, then rotate the <↺> knob to adjust their values.

- ③ Rotate the <☀> knob to adjust brightness.



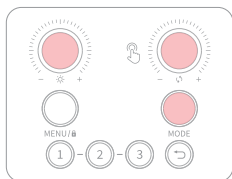
## ● RGBCW Mode

- ① Short-press the <MODE> button to open the mode menu. Short-press it again or rotate the <↺> knob to select RGBCW mode, then short-press <↺> to confirm and enter the mode for DIY customization.



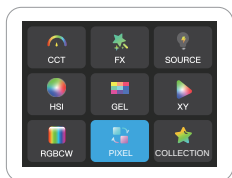
- ② Short-press <↺> to select R, G, B, C, or W, then rotate <↺> to adjust the corresponding value.

- ③ Rotate the <☀> knob to adjust brightness.

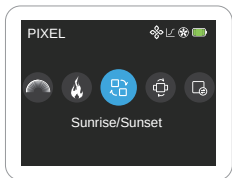


## ● PIXEL Mode

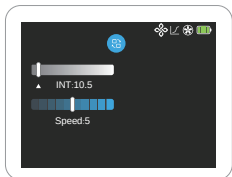
- ① Short-press the **<MODE>** button to open the mode menu. Short-press it again or rotate the **<↻>** knob to select PIXEL mode, then short-press **<↻>** to confirm and enter the mode.



- ② Rotate the **<↻>** knob to select different options.



- ③ Short-press **<↻>** to access parameter adjustment of the selected pixel, then rotate **<↻>** to adjust its value.



- ④ Rotate the **<☀>** knob to adjust brightness.



Color Replacement



Color Cycle



Single Color Flow



Dual Color Flow



Triple Color Flow



Vivid Colors



Electric Flame



Stack Effect



Trailing



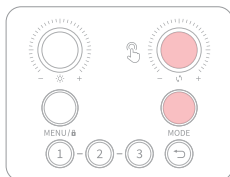
Color Gradient



Pixel Interval

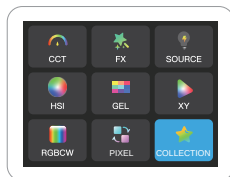
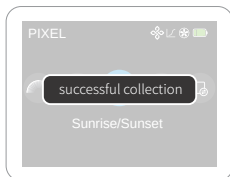


Color Transition

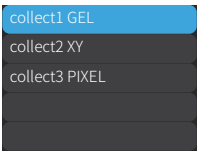


## ● Favorites Mode

- ① After adjusting the parameters in any other mode, long press the <MODE> knob to save the current settings to Favorites



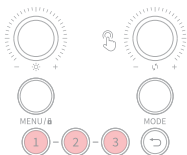
- ② Short-press the <MODE> button to enter the mode menu, then short press it again or rotate <MODE> to select "Favorites Mode". Short press <MODE> to confirm and enter.



collect1 GEL  
collect2 XY  
collect3 PIXEL

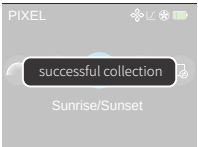
- ③ Rotate <↻> to select a saved favorite, then short press <↻> to apply it.

Long-press <↻> to delete the selected favorite.



### ● Shortcut Button

- ① Long-press a shortcut button to save the current settings as a favorite.
- ② Short-press the same shortcut button to apply the saved settings.



PIXEL

successful collection

Sunrise/Sunset

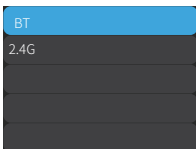
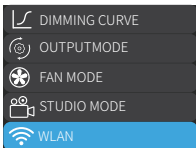
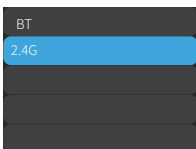
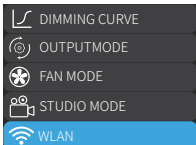
## • Menu

| Symbols                                                                             | Functions     | Settings                                                                                 | Descriptions              |
|-------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------|---------------------------|
|    | DIMMING CURVE |  S      | S-Curve Dimming           |
|                                                                                     |               |  LOG    | Logarithmic Dimming       |
|                                                                                     |               |  EXP    | Exponential Dimming       |
|                                                                                     |               |  LINEAR | Linear Dimming            |
|    | OUTPUT MODE   | CP                                                                                       | Maximum Power Output Mode |
|                                                                                     |               | CL                                                                                       | Constant Brightness Mode  |
|    | FAN MODE      | FAN_AUTO                                                                                 | Intelligent Cooling Mode  |
|                                                                                     |               | FAN_LIGHT                                                                                | High-Speed Cooling Mode   |
|                                                                                     |               | FAN_MED                                                                                  | Medium-Speed Cooling Mode |
|                                                                                     |               | FAN_MUTE                                                                                 | Silent Cooling Mode       |
|  | STUDIO MODE   | ON                                                                                       | Studio Mode On            |
|                                                                                     |               | OFF                                                                                      | Studio Mode Off           |

| Symbols                                                                           | Functions  | Settings      | Descriptions              |
|-----------------------------------------------------------------------------------|------------|---------------|---------------------------|
|  | WLAN       | BT            | INFINITY Mode             |
|                                                                                   |            | 2.4G          | 2.4G Mode                 |
|  | FM MODE    | FRQ           | Adjustable Frequency      |
|  | DMX_INFO   |               | View Current DMX Settings |
|                                                                                   | DMX_SWITCH | ON            | DMX Connection Off        |
|                                                                                   |            | OFF           | DMX Connection On         |
|                                                                                   | DMX_MODE   | CCT-RGB-8bit  | DMX Mode                  |
|                                                                                   |            | CCT-8bit      |                           |
|                                                                                   |            | CCT-HSI-8bit  |                           |
|                                                                                   |            | RGB-8bit      |                           |
|                                                                                   |            | HSI-8bit      |                           |
|                                                                                   |            | GLE-8bit      |                           |
|                                                                                   |            | XY-8bit       |                           |
|                                                                                   |            | SOURCE-8bit   |                           |
|                                                                                   |            | FX-8bit       |                           |
|                                                                                   |            | RGBCW-8bit    |                           |
|                                                                                   |            | ULTIMATE-8bit |                           |
|                                                                                   |            | NEEWER-8bit   |                           |

| Symbols | Functions | Settings      | Descriptions                          |
|---------|-----------|---------------|---------------------------------------|
| (DMX)   | DMX_MODE  | CCT-RGB-16bit | DMX Mode                              |
|         |           | CCT-16bit     |                                       |
|         |           | CCT-HSI-16bit |                                       |
|         |           | RGB-16bit     |                                       |
|         |           | HSI-16bit     |                                       |
|         |           | GLE-16bit     |                                       |
|         |           | XY-16bit      |                                       |
|         |           | SOURCE-16bit  |                                       |
|         |           | FX-16bit      |                                       |
|         |           | RGBCW-16bit   |                                       |
|         |           | ULTIMATE-8bit |                                       |
|         |           | NEEWER-8bit   |                                       |
|         | DMX_ADD   | ADD: 1        | DMX Address                           |
|         | DMX LOS   | DMX_LOSE_0S   | Power Off Immediately on DMX Loss     |
|         |           | DMX_LOSE_60S  | Power Off 1 Minute After DMX Loss     |
|         |           | DMX_LOSE_180S | Power Off 3 Minutes After DMX Loss    |
|         |           | DMX_LOSE_SAVE | Keep Last DMX Settings on Signal Loss |

| Symbols                                                                                               | Functions               | Settings     | Descriptions     |
|-------------------------------------------------------------------------------------------------------|-------------------------|--------------|------------------|
|                      | DMX_SMOOTH              | OFF          | DMX Smooth Off   |
|                                                                                                       |                         | SMOOTH       | DMX Smooth       |
|                                                                                                       |                         | SUPER SMOOTH | DMX Super Smooth |
|                                                                                                       | RDM_SWITCH              | OFF          | RDM Off          |
|                                                                                                       |                         | ON           | RDM On           |
|                      | CRM                     | OFF          | Wireless DMX Off |
|                                                                                                       |                         | ON           | Wireless DMX On  |
| <br>Art-net<br>&sacn | Ethernet<br>Settings    | IP ADDR      | IP Address       |
|                                                                                                       |                         | SUBNET MASK  | Subnet Mask      |
|                                                                                                       |                         | CATEWAY      | Gateway          |
|                                                                                                       | ArtNet&SACN<br>Settings | ARTNET       |                  |
|                                                                                                       |                         | SACN         |                  |
|                    | DEVICE INFO             |              | View Device Info |
|                    | Reset All<br>Settings   | YES          | Factory Reset    |
|                                                                                                       |                         | NO           |                  |



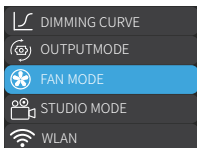
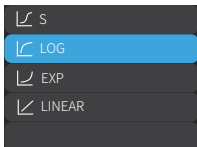
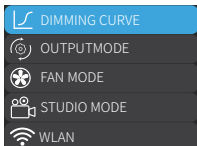
## ● 2.4G Mode

- ① Short-press the **<MENU>** button to enter the menu, then rotate **<↻>** to select **<WLAN>**. Short press **<↻>** to enter the submenu, rotate **<↻>** to select 2.4G. Short-press **<↻>** again to enter channel adjustment. Rotate **<↻>** to select a channel from CH00 to CH99.
- ② In 2.4G mode, set multiple LED lights to the same channel (e.g., all set to CH88). Adjusting one of the lights will automatically synchronize all others which have been set on the same channel.

## ● INFINITY Mode

- ① Short-press the **<MENU>** button to enter the menu, rotate **<↻>** to select **<WLAN>**, then short press **<↻>** to enter the submenu. Rotate the knob to select BT, then short press the knob to reset INFINITY.
- ② Connect via Bluetooth to your smartphone to control the LED light using the “NEEWER” APP. For detailed instructions, please scan the QR code on the APP guide card.

※ Please reset INFINITY before connecting the APP.



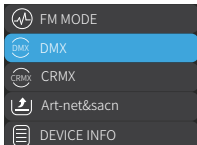
## ● Dimming Curves

Short-press the **<MENU>** button to enter the menu, then rotate **<↶/↷>** to select **< DIMMING CURVE>**. Short press **<↶/↷>** to enter the submenu, and rotate **<↶/↷>** to choose between S-Curve, Logarithmic, Exponential, and Linear dimming curves.

## ● Fan Modes

Short-press the **<MENU>** button to enter the menu, then rotate **<↶/↷>** to select **< FAN MODE>**. Short press **<↶/↷>** to enter the submenu, and rotate **<↶/↷>** to choose between Intelligent, High-Speed, Medium-Speed, and Silent Cooling.

| Mode      | Smart | High-Speed | Medium-Speed | Silent |
|-----------|-------|------------|--------------|--------|
| Symbol    |       |            |              |        |
| Max Power | 450W  | 450W       | 250W         | 130W   |



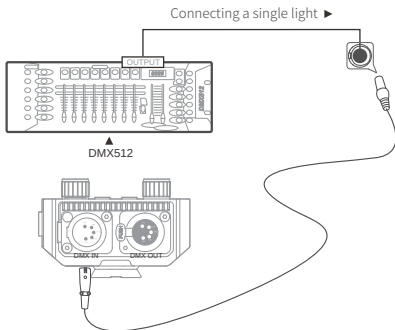
## ● DMX Connection

Short-press the **<MENU>** button to enter the menu, then rotate **<↻>** to select DMX. Short press **<↻>** to enter the submenu, where you can configure functions such as DMX On/Off, DMX Mode, DMX Address, DMX Signal Loss, DMX Smooth, etc.

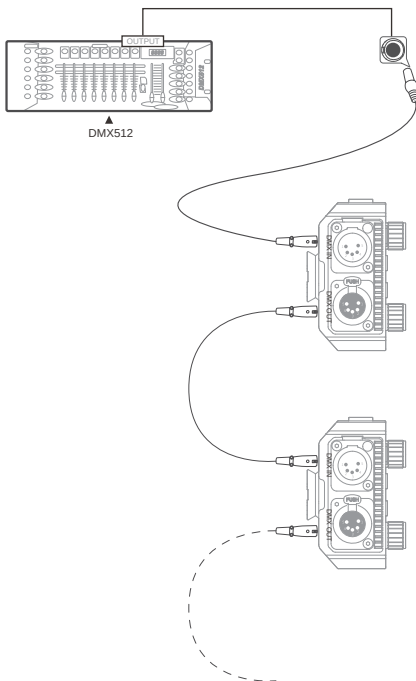
※ For detailed parameter settings, please refer to the menu list on pages 21–23.

※ For related control schemes, please refer to the attached table "AP300C DMX Channel List".

## DMX Connection Diagram



## Connecting multiple lights ▶



## • Error Messages

|                                                                                          |                                |                                                                                          |                           |
|------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------|---------------------------|
| <br>HVP | High Voltage<br>Protection     | <br>LVP | Low Voltage<br>Protection |
| <br>OT  | Over Temperature<br>Protection |                                                                                          |                           |

## Firmware Update

The product firmware can be upgraded via the app. After the controller box upgrade is complete, please wait a moment before the LED light begins upgrading. Do not disconnect the power during the process.

AP300C Update...

Controller Upgrade in Progress

FW Update  
66%

LED Light Upgrade in Progress

|                         |                                                                           |
|-------------------------|---------------------------------------------------------------------------|
| Model                   | AP300C                                                                    |
| Input                   | AC 100-240V/50~60 Hz<br>DC 48V/10A                                        |
| Input Power             | Intelligent : 450W; High-Speed: 450W;<br>Medium-Speed: 250W; Silent: 130W |
| Output Power            | 370W                                                                      |
| CRI                     | ≥95                                                                       |
| TLCI                    | ≥97                                                                       |
| Maximum Illuminance     | 11000lx/1m (4400K)                                                        |
| Brightness Range        | 0 ~100                                                                    |
| Color Temperature Range | 1800K ~ 10000K                                                            |
| GM Range                | -50 ~ 50                                                                  |
| Special Effects         | 17                                                                        |
| Light Sources           | 17                                                                        |
| Pixels                  | 12                                                                        |
| Dimming Curves          | Linear / S-Curve / Exponential / Logarithmic                              |
| Dimensions              | 622×509×201mm                                                             |
| Weight                  | 12.6kg                                                                    |
| Operating Temperature   | -20°C ~ 40°C                                                              |

1. Do not drop the product or subject it to strong impacts.
2. When in use, do not look directly at the light, as it may cause eye damage.
3. Keep the product away from flammable and explosive materials.
4. Avoid using the product in the rain or other humid environments.
5. Turn off the power when not in use.
6. If not used for an extended period, store the product in a well-ventilated, dry place away from heat sources and magnetic fields.
7. If the wireless DMX (CRMX) fails to connect, first turn off CRMX in the menu, then turn it on again to reconnect.