Aputure®

Nova P600c

Product Manual

English

Thank You!

Thank you for purchasing Aputure® Nova series products. Nova P600c is a high-power RGBWW light . The high-power output easily meets the illumination requirements of the studio. The high CRI can perfectly restore the skin color of the characters. The high -quality structure does not fear the heavy work of the studio. It supports multiple control protocols.

Nova P600c brings efficient and convenient lighting operation experience to professional film and television producers, and helps film and television producers to freely capture the vivid details of the shooting scene.

IMPORTANT SAFETY INSTRUCTIONS

When using this unit, basic safety precautions should always be followed, including the following:

1. Read and understand all instructions before using.
2. Close supervision is necessary when any fixture is used by or near children. Do not leave the fixture unattended while in use.
3. Care must be taken as burns can occur from touching hot surfaces.
4. Do not operate the fixture if a cord is damaged, or if the fixture has been dropped or damaged, until it has been examined by qualified service personnel.
5. Position any power cables such that they will not be tripped over, pulled, or put into contact with hot surfaces.
6. If an extension cord is necessary, a cord with an amperage rating at least equal to that of the fixture should be used. Cords rated for less amperage than the fixture may overheat.
7. Always unplug the lighting fixture from the electrical outlet before cleaning and servicing, or when not in use. Never yank the cord to remove the plug from the outlet.
8. Let the lighting fixture cool completely before storing. Unplug the power cable from lighting fixture before storing and store the cable at assigned space of the carrying case.
9. To reduce the risk of electric shock, do not immerse this fixture in water or any other liquids.
10. To reduce the risk of fire or electric shock, do not disassemble this fixture. Contact cs@aputure.com or take the lighting fixture to qualified service personnel when service or repair is required. Incorrect reassembly may cause electric shock when the lighting fixture is in use.
11. The use of any accessory attachment not recommended by the manufacturer may increase the risk of fire, electric shock, or injury to any persons operating the fixture.
12. Please power this fixture by connecting it to a grounded outlet.
13. Please do not place the LED lighting fixture near any flammable object.
14. Only use a dry microfiber cloth to clean the product.
15. Please do not use the light fixture in wet condition on account of electric shock may be caused.

16. Please have the product checked by an authorized service personnel agent if the product has a problem. Any malfunctions caused by unauthorized disassembly are not covered by the warranty. The user may pay for maintenance.
17. We recommend only using the original Aputure cable accessories. Please note that any malfunctions caused by using unauthorized accessories are not covered by the warranty. The user may pay for maintenance.
18. This product is certified by RoHS, CE, KC, PSE, and FCC. Please operate the product in full compliance with relevant country's standards. Any malfunctions caused by incorrect use are not covered by warranty. The user may pay for maintenance.
19. The instructions and information in this manual are based on thorough, controlled company testing procedures. Further notice will not be given if the design or specifications change.

SAVE THESE INSTRUCTIONS

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.
Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a different circuit than the receiver is connected to.
- Consult the dealer or an experienced radio/TV technician for help.

RF Warning Statement

This device has been evaluated to meet general RF exposure requirements.

Components List

Please make sure all accessories listed below are completed before using. If not, please contact with your sellers immediately.
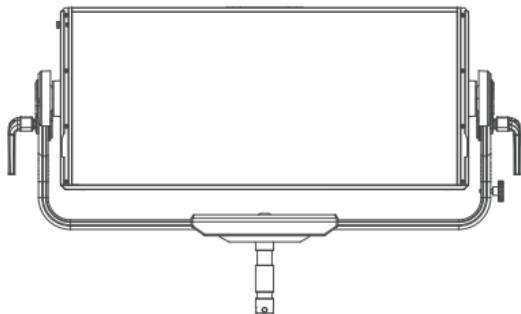
Nova P600c Lamp Head
(1 pc)

Paracord Strap
(1 pc)

Control Box
(1 pc)
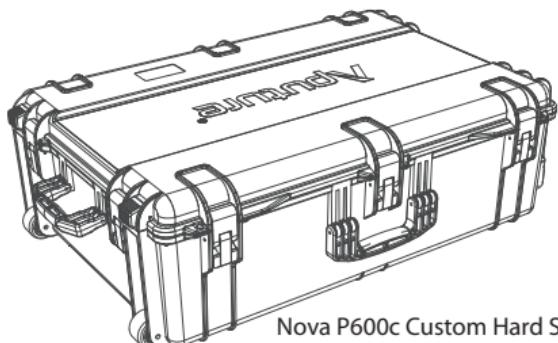
Nova P600c Custom Hard Shell
(1 pc)
(Available in Kit/Sold Separately)

Lighting Clamp
(1 pc)

Cable Tie
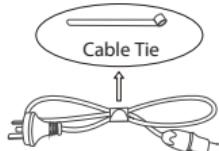
Neutrik® power CON
AC Power Cable (6m)
(1 pc)

Cable Tie
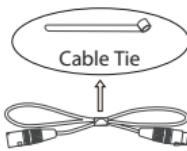
5-Pin Male-to-Female
XLR Head Cable (3m)
(1 pc)

Product Card
(1pc)

Product Details

1. Lamp Head

Accessory Slot
Fixed Diffusion Panel
Carrying Handle
Pogo Pin
Quick-Release

Lamp support column

Yoke

T-Handle Storage Hole

Disk Brake Handle

Control Box Input (5-pin Male XLR)

Battery Input (3-Pin Male XLR)

Neutrik® power CON AC Power Input

2. Controller Box

Paracord Strap Plate

OLED Display
Intensity/Main Control Knob
Green-Magenta / SAT Wheel
Light Mode Button
Menu Button
Preset Buttons
USB Port

Power Button

Quick-Release Plate

CCT / HUE Wheel

Electrical contacts

5-Pin Female XLR Control Box Input

DMX OUT Port

DMX IN Port

Installations

1. Setting Up the Lamp Head

Put the support column of the lamp head into the hole of the lamp stand, and use the fastening knob of the lamp holder to lock it. The angle of the lamp head can be adjusted by rotating the handle on the side of the lamp head.
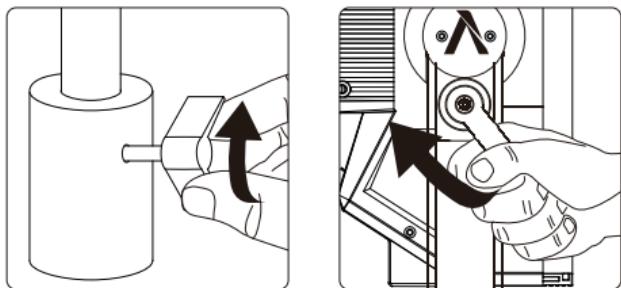
2. Lightning Clamp Operation Instructions
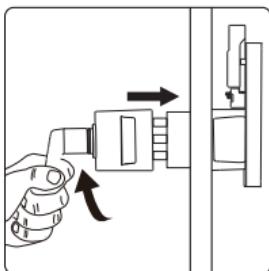
Clamp the Lightning Clamp onto a light stand or Yoke.
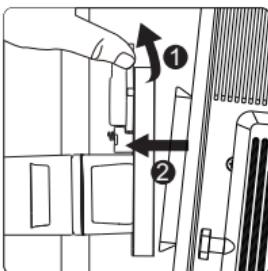
To attach the control box, rotate the release lever to unlock the quick-release baseplate, then mount the control box onto the Lightning Clamp (the release lever will automatically spring back).
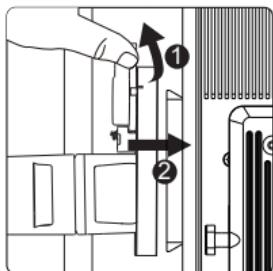
To remove the control box, grasp it firmly, then unlock the quick-release plate by turning the release lever, and detach the control box.
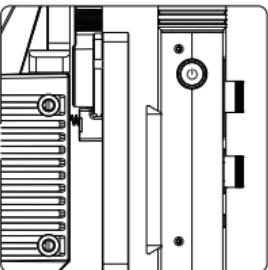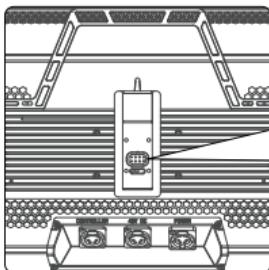
The quick-release plate on the lamp head fixes the control box in the same way as the quick-release part fixes the control box.

Lightning Clamp Specifications

Weight	670g / 1.48lbs	Sizes(L*W*H)	10.35x8.74x12.5cm / 4.07x3.44x4.92in
* The Lightning Clamp can clamp onto square or round pipe with a diameter between 2-5cm or 0.79-1.97in.			

3. Connect the Lamp Head to the Control Box

3.1 Connect the lamp head and control through the contacts

There is a quick-release plate (with Electrical contacts) on the back of the control box, which can be quickly installed on the lamp head or the Lighting Clamp on the lamp stand; the lamp head has a Pogo pin in the quick-installation part slot, and the control box does not need to be connected after being installed on the lamp head cable, can directly control the lamp head through the contact transmission signal.

Pogo Pin

Electrical contacts

Controller Box

Directly control the lamp head by connecting the electrical contacts through the Pogo pin
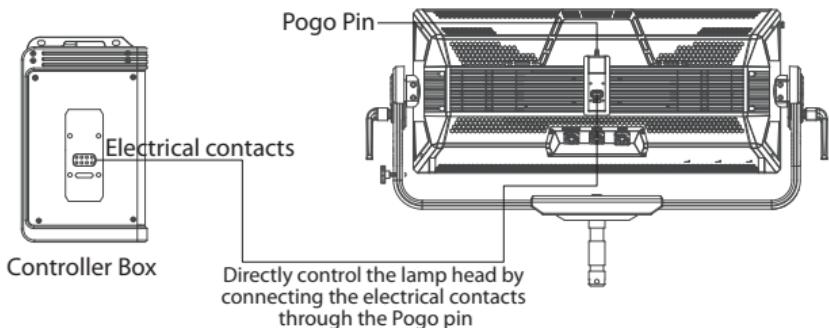
3.2 Connect the lamp head and control through the head cable

XLR Locking Tab

OUTPUT

XLR Locking Tab

XLR Locking Tab
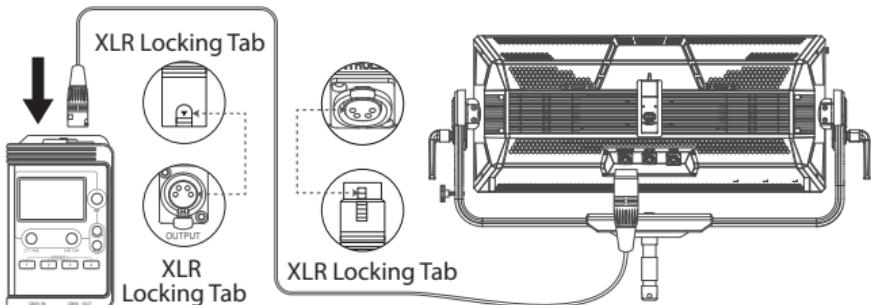
* You can tie the cable tie with the connecting cable to the hanging post to facilitate the management of the cable.
* Disconnect the Head Cable by press down the collar on the connector. This will disengage its locking structure. Do not pull directly.
* The lamp controller interface schematic is shown in the pictures below:

Power-Ground

15V

Signal-B

Signal-A

Ground
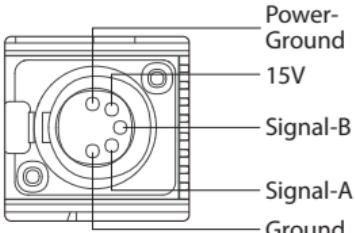
4. Power Solution

4.1 Powering by AC

Neutrik® power CON
Male Connector

Neutrik® power CON
Female Locking
Connector

AC 100V-240V
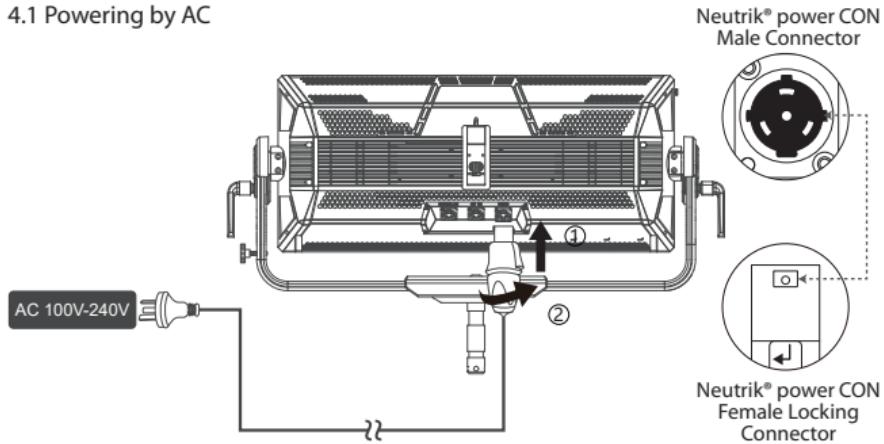
* To disconnect the Neutrik® power Con cable, pull back on the release tab on the cable connector, and rotate the connector counter clockwise. Do not pull directly.

4.2 Powering by DC

Connect 48V 15A DC power supply equipment to supply power through the XLR interface to maintain the operation of the lamp.
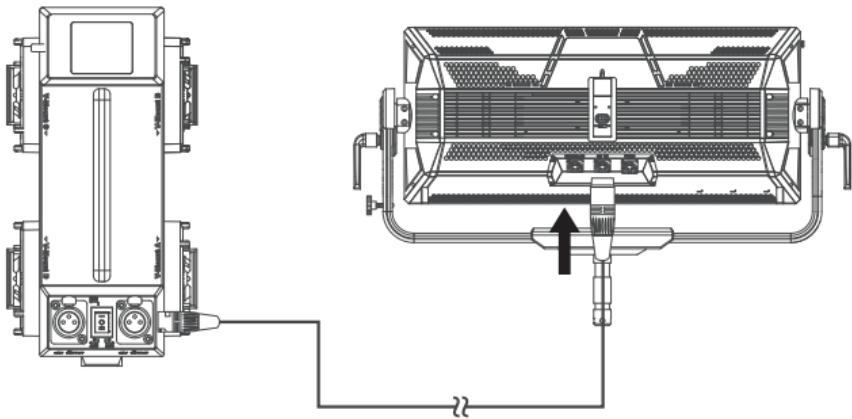
Operations

1. Turn the Light On

When the lamp body is connected to the power source, connect it to the contact of the control box through the connecting cable or the Pogo pin of the lamp head, and short press the power button on the side of the control box to turn on/off the lamp body.


```
INT      50.0 %
CCT        G/M
5500 K   +0.00
```
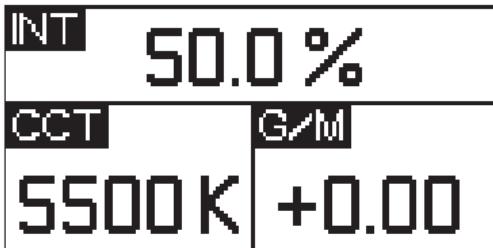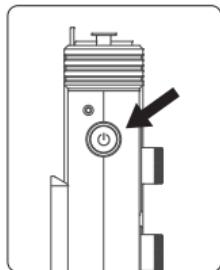
2. Manual Control

2.1 Rotate the Intensity (INT) wheel to adjust the intensity of the light from 0-100%.


```
INT      50.0%
R              G         B
50.0%    50.0%
```
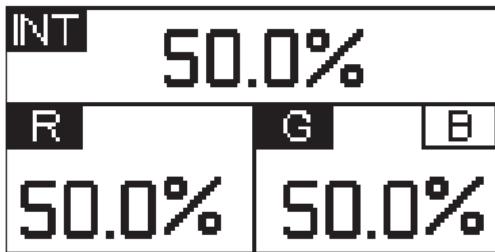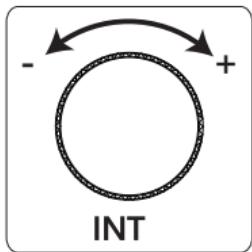
Rotate the CCT / HUE wheel to adjust the CCT or HUE Output of the light fixture.


```
INT      50.0%
HUE      SAT  CCT
1°         100%
```
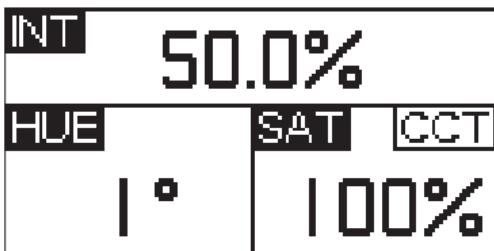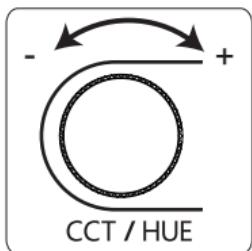
Rotate the Green-Magenta / Saturation (G/M / SAT) Control Knob to adjust the Green-Magenta Shift or Saturation output of the light fixture.

The speed at which you rotate the knob will result in different rates of change.
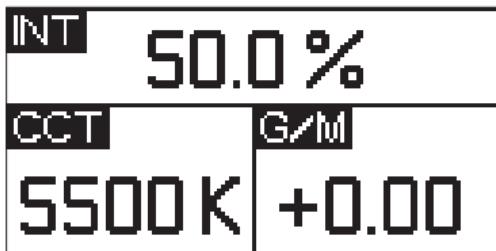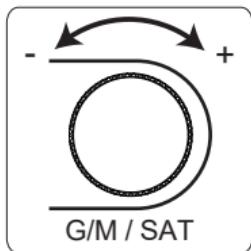
2.2 Press the Light Mode button to enter the Menu interface.
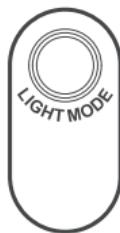
2.2.1 Short press INT wheel to select CCT mode to adjust color temperature (2000K~10000K).
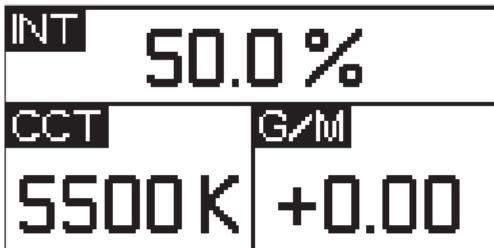
2.2.2 Press the INT wheel to select HSI mode to adjust the change of the HUE from 1°~360°.

```
INT        50.0%
HUE        SAT    CCT
   1°      100%
```
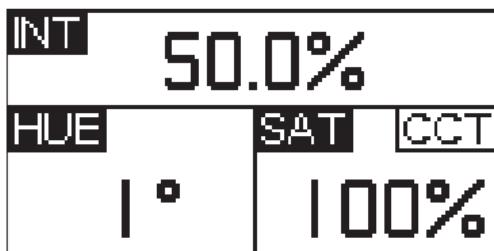
2.2.3 Short press the INT wheel to select FX mode, then rotate the INT wheel to toggle between Club Lights, Paparazzi, Lightning, TV, Candle, Fire, Strobe, Explosion, Fault Bulb, Pulsing, Welding, Cop Car, Color Chase, Party Lights, Fireworks, Color Fade, Color cycle, Color Gradient, One Color Chase.

```
Lightning
Paparazzi
Strobe
Cop Car                ▼
```
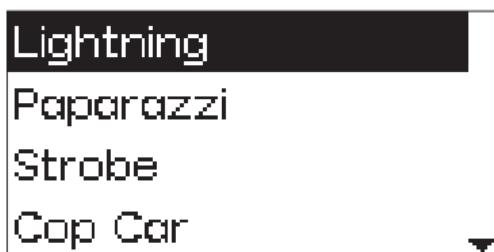
1. Club Lights

```
Club     INT
Lights     50.0%
COLORS   SPD
   3       05
```

2. Paparazzi

```
Paparazzi  INT
             50.0%
           FRQ
CCT         05
```

3. Lightning

```
Lightning  INT
             50.0%
           FRQ  SPD
CCT         05
```

4. TV

```
TV       INT
           50.0%
Warmer   SPD
Natural
Cooler     05
```

5. Candle

Candle	INT 50.0% ⬆
Warmer **Natural** Cooler	SPD 05

6. Fire

Fire	INT 50.0% ⬆
Warmer **Natural** Cooler	SPD 05

7. Strobe

Strobe	INT 50.0%
SOURCE **CCT** HSI	SPD 05

8. Explosion

Explosion	INT 50.0%
SOURCE **CCT** HSI	Decay 05

9. Fault Bulb

Faulty Bulb	INT 50.0% ⬆
SOURCE **CCT** HSI	FRQ SPD 05

10. Pulsing

Pulsing	INT 50.0%
SOURCE **CCT** HSI	FRQ SPD 05

11. Welding

Welding	INT 50.0% ⬆
SOURCE **CCT** HSI	FRQ MIN 05

12. Cop Car

Cop Car	INT 50.0%
R+B+W **R** B	FRQ 05

13. Color Chase

Color Chase	INT 50.0%
SAT 100%	SPD 05

14. Party Lights

Party Lights	INT 50.0%
SAT 100%	SPD 05

15. Fireworks

| Fireworks | INT 50.0% |
| CCT+HUE **CCT** HUE | FRQ 05 |

16. Color Fade

| Color Fade | INT 50.0% |
| C1C2C3C4 SPD **H30°** | DIR 05 |

17. Color cycle

| Color Cycle | INT 50.0% |
| C1C2C3C4 SPD **H30°** | 05 |

18. Color Gradient

| Color Gradient | INT 50.0% |
| C1C2C3C4 SPD **H30°** | MIN 05 |

19. One Color Chase

| OneColor Chase | INT 50.0% |
| C1C2 SPD **H30°** | DIR 05 |

2.24 Short press the INT wheel to enter or exit the light effect cycle, the icon is (🔄) in the cycle state, and the icon is (⬜) when the light effect is stopped; in the Explosion mode, short press the INT wheel to perform a single trigger function. Loop function (⬜); in Lightning mode, short press the INT wheel to perform the single trigger function, and long press the INT wheel to perform the loop function (🔄).

2.2.5 Short press the INT wheel to select RGB mode to adjust the brightness via change the scale of each of R/G/B.

INT	50.0%	
R	G	B
50.0%	50.0%	
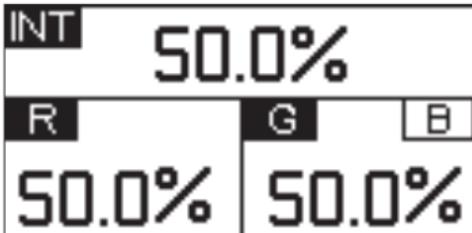
2.2.6 Short press the INT wheel to select X, Y color coordinate mode, press or rotate the HUE wheel to change the figure of X and press the SAT wheel to change the figure of Y.

```
┌─────────────────────────┐
│ INT     50.0 %          │
├────────────┬────────────┤
│ X          │ Y          │
│         ˅  │         ˅  │
│ 0.4260     │ 0.4005     │
└────────────┴────────────┘
```
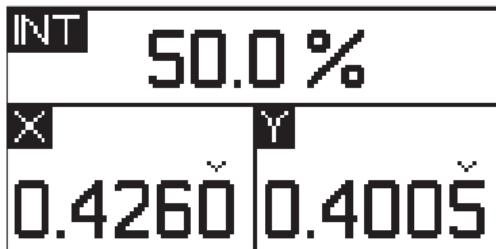
2.2.7 Short press the INT wheel to select SOURCE mode, then rotate the INT wheel to select appropriate source.

```
┌─────────────────────────┐
│ Tungsten Bulb           │
│ Incandescent            │
│ Halogen                 │
│ Antique Bulb          ▼ │
└─────────────────────────┘
```

2.2.8 Short press the INT wheel to select GEL mode, then rotate the INT wheel to adjust the brightness, rotate the INT wheel to choose 3200K/5600K and press G/M wheel to enter the interface of GEL, rotate the G/M wheel to select the GEL.

```
┌─────────────────────────┐
│ INT     50.0 %          │
├────────────┬────────────┤
│  3200K     │            │
│  5600K     │ 02 Full CT │
└────────────┴────────────┘
```

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2.3 Short press the MENU button to enter the system of menu interface, as shown below.

```
DMX Settings
Fan Mode
Dimming Curves
Freq. Selection
```
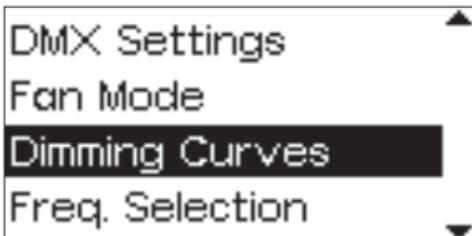
2.3.1 Output Mode

Press the MENU Button to enter the menu interface, rotate the INT wheel and short press to enter the Output Mode. In the output mode interface, you can choose Constant Output Mode and Max Output Mode. Constant out put mode can maintain the brightness output during the process of changing the color temperature. Max Output Mode can make Nova P600c perform the current maximum power output.

```
Output Mode

■ Constant Output

□ Max Output
```
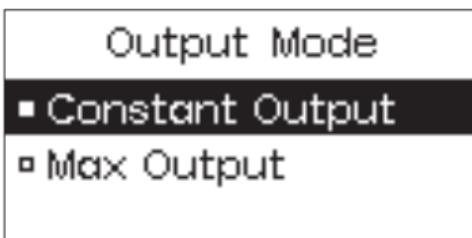
2.3.2 DMX Mode

Press the MENU Button to enter the menu interface, rotate the INT wheel and short press to enter the DMX mode, rotate the INT wheel to select DMX Address/DMX Profiles /DMX Loss Behavior, and then short press the INT wheel to confirm the selection.

DMX Address：Rotate the INT wheel to change the DMX channel (001-512).

DMX Profiles: Rotate the INT wheel to select 1: CCT&RGB, select 2: CCT&HSI..., a total of 20 built-in DMX models.

DMX Loss Behavior：Rotate the INT knob to select Black out /fade to Black /Hold last setting/ Hold 2 min& Fade Out.

1）Black out -when the DMX signal is lost, it will be Black out.

2）Fade to Black -after DMX signal is lost, it will fade to Black in 60 seconds.

3）Hold last setting -After DMX signal is lost, remember the last control setting.

4）Hold 2 min& Fade Out -After the DMX signal is lost, keep the last control setting for two minutes, and then Fade to Black within 60 seconds.

* The fade-out time decreases as the percentage of brightness decreases. When the brightness output is 100%, the fade-out time is 60 seconds, which decreases in sequence

* If the signal is reconnected, the DMX console will continue to maintain the signal output as same as before.

DMX Address	DMX address
DMX Profiles	
DMX Loss Behavior	**001** ↻

DMX Profile	DMX Loss Behavior
■ CCT&RGB 8bit 8cha	■ **Black Out**
□ 2:CCT 8bit 4chann	□ Fade to Black
□ 3:CCT&HSI 8bit 7ch ▼	□ Hold Last Settings ▼
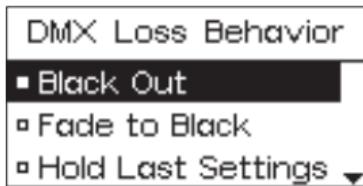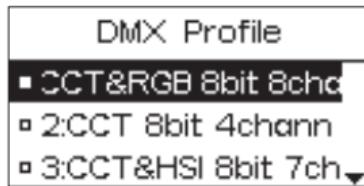
2.3.3 Fan Mode

Press the MENU button to enter the menu interface, rotate the INT wheel and press to enter the Fan Mode. Turn the INT wheel to choose from smart/ high/ medium/ silent mode, and then press the INT wheel to confirm the selection.

```
        Fan Mode

■ Smart

□ High

□ Medium              ▼
```
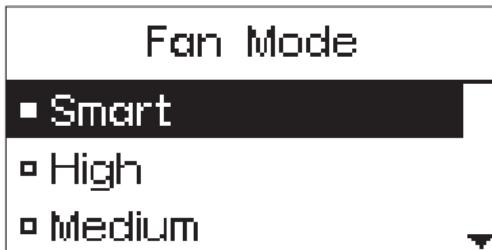
2.3.4 Dimming Curves

Press the MENU button to enter the menu interface, rotate the INT wheel to select Dimming Curve, and press the INT wheel to enter the Dimming Curve selection menu. Using the INT wheel to choose from exponential (Exp), logarithmic (Log), S-Curve, or linear dimming curves, and press the INT wheel to confirm the selection.

```
     Dimming  Curves

Exp  ___/    Log   __/

S-curve  _/  Linear  /
```
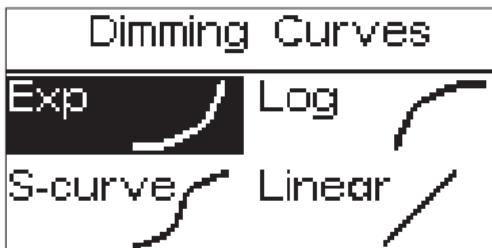
2.3.5 Studio Mode

Press the MENU button to enter the menu interface, rotate the INT wheel to select and press to enter Studio Mode interface. Then, rotate the INT wheel to turn the Studio Mode on or off.
When the studio mode is turned on (ON), the lamp can be turned on directly, when the studio mode is turned off (OFF), you need to press the power switch to turn on the lamp.

```
┌─────────────────────────────┐
│        Studio Mode          │
├─────────────────────────────┤
│                             │
│   ┌───┐                     │
│   │YES│          NO         │
│   └───┘                     │
└─────────────────────────────┘
```
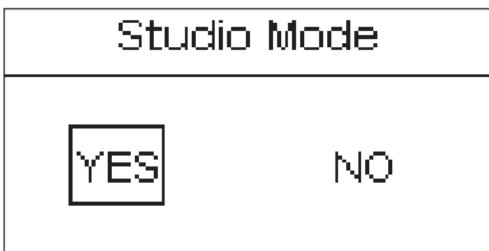
2.3.6 Frequency Selection

Press the MENU button to enter the menu interface, rotate the INT wheel to select and press to enter Frequency Selection interface. Rotate the INT wheel to adjust the light frequency by 100Hz every turn.

```
┌─────────────────────────────┐
│       Freq. Selection       │
├─────────────────────────────┤
│                             │
│       +200 Hz               │
│                             │
└─────────────────────────────┘
```
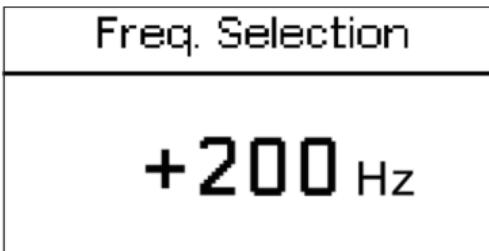
2.3.7 Wireless DMX

Press the MENU button to enter the menu interface, rotate the INT wheel to select and press to enter Wireless DMX interface, Rotate the INT wheel to select Lumen Radio status/pairing/exit.
LumenRadio status: Short press the INT wheel to turn on or off the LumenRadio module.
Pairing: Connect with the LumenRadio transmitter module when the LumenRadio module is turned on.
Exit: Short press to Exit return to the main menu.

```
Lumenradio Status
Pair
Exit
```

2.3.8 Bluetooth

Press the MENU button to enter the menu interface, rotate the INT wheel to select
and press to enter Bluetooth mode, short press the INT wheel to enter the Bluetooth
mode interface, and turn the INT wheel to select BT status/BT reset/ Fixture Serial
No./exit.
BT Status: Short press the INT wheel to turn on or off the Bluetooth module.
BT Reset: Short press the INT wheel to reset or cancel the Bluetooth module.
Fixture Serial No.: Display the Bluetooth serial number.
Exit: Short press to Exit return to the main menu.

```
BT Status
BT Reset
Fixture Serial No.
Exit
```

```
Fixture Serial No.


       ...

```

2.3.9 Update Firmware

Press the MENU button to enter the menu interface, rotate the INT wheel to select and press to enter Update Firmware interface, rotate the INT wheel to select "YES" or "NO".

If a USB flash drive containing a firmware update is mounted in the USB port, the screen will display an update progress; If you choose "NO", then it will return the menu interface.

```
┌─────────────────────────┐
│    Update Firmware      │
├─────────────────────────┤
│                         │
│  ┌─────┐                │
│  │YES  │      NO        │
│  └─────┘                │
│                         │
└─────────────────────────┘
```
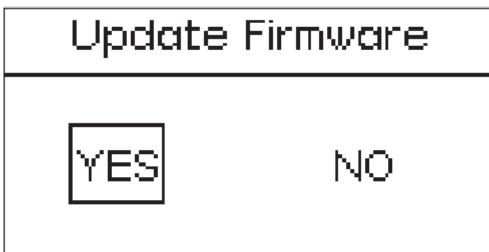
2.3.10 Firmware Version

Press the MENU button to enter the menu interface, rotate the INT wheel to select and press to enter Firmware Version Interface, you can see the Firmware Version of the lamp head and control box.

```
┌─────────────────────────┐
│    Firmware Version     │
├─────────────────────────┤
│ Lamp Head  : 1.0        │
│ Control Box: 1.0        │
│                         │
└─────────────────────────┘
```
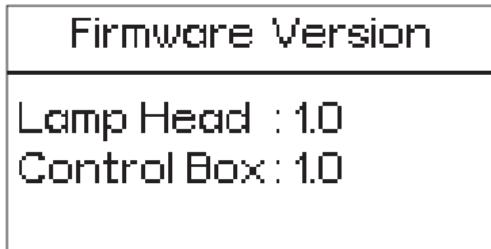
2.3.11 Language

Press the MENU button to enter the menu interface, rotate the INT wheel to select and press to enter the Language interface. You can rotate the INT wheel to select English or Chinese, and then press the INT wheel to confirm the selection.

```
┌─────────────────────────┐
│        Language         │
├─────────────────────────┤
│                         │
│  ┌─────────┐            │
│  │English  │    中文     │
│  └─────────┘            │
│                         │
└─────────────────────────┘
```
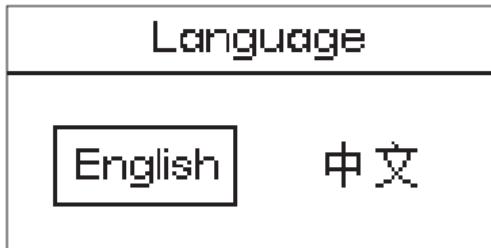
2.3.12 Factory Reset

Press the MENU button to enter the menu interface, rotate the INT wheel to select and press to enter the Factory Reset interface.
The factory settings are: fan is in smart mode, light effect brightness value is 50%, light effect mode color temperature value is 5600K, normal mode brightness is 50%, normal light mode color temperature is 5600K, Bluetooth mode is turned on, studio mode is turned off, dimming curve-linear, DMX channel number 001, English, fireworks light effect, frequency 5.

```
┌─────────────────────────────┐
│      Factory Reset          │
├─────────────────────────────┤
│                             │
│  ┌─────┐                    │
│  │YES│      NO            │
│  └─────┘                    │
└─────────────────────────────┘
```
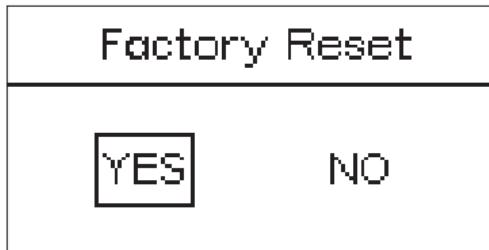
2.3.13 Fixture Serial No

Press the MENU button to enter the menu interface, rotate the INT wheel to select and press to enter the Fixture Serial No. interface, you can see Fixture Serial No. of your lamp.

```
┌─────────────────────────────┐
│    Fixture Serial No.       │
├─────────────────────────────┤
│                             │
│          ...                │
│                             │
└─────────────────────────────┘
```
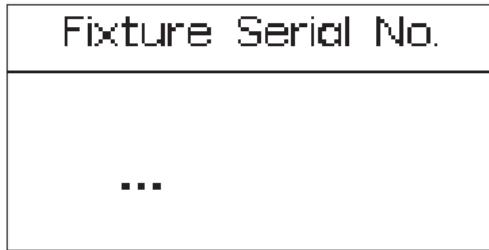
2.3.14 Custom FX

Press the MENU button to enter the menu interface, rotate the INT wheel to select and press to enter the Custom FX. You can choose to enter Picker FX, Music FX, or Touchbar FX interface. Each type can save 10 custom FXs. In the name of each FX, "NO FX" means unsaved FX, and "Untitled" means saved FX.

Custom FX

Picker FX

Music FX

TouchBar FX

2.4 Fixture Presets

There are 4 preset buttons under the control box. After setting the light to the desired output mode, long press any one of the four buttons 1, 2, 3, 4 to start the process of saving the preset, and use the INT knob to select "Yes/No". Then, you can use these preset buttons in any mode to activate the mode and content previously saved to the preset.

3. Connecting to DMX

3.1 Connect a standard DMX controller

Connecting DMX to only one Nova P600c

Daisy chaining multiple lights using DMX
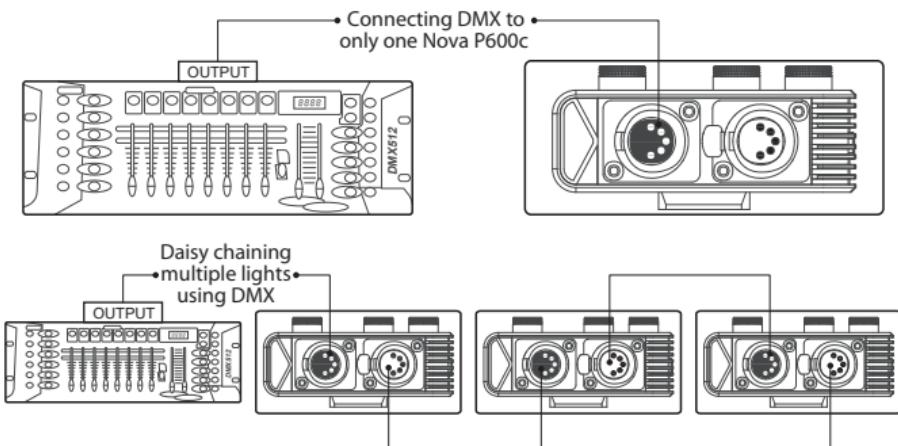
* The DMX interface schematic is shown in the pictures below:

Signal Common
Data 1- (Primary Data Link)
Data 1+ (Primary Data Link)
Data 2- (Optional Secondary Data Link)
Data 2+ (Optional Secondary Data Link)

Signal Common
Data 1- (Primary Data Link)
Data 1+ (Primary Data Link)
Data 2- (Optional Secondary Data Link)
Data 2+ (Optional Secondary Data Link)
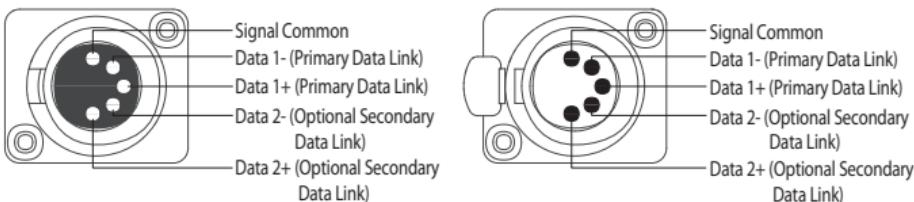
3.2 Channel Selection

In DMX mode, match the channel of your DMX controller with the light, and then adjust accordingly.
* The default DMX channel is "001".
* The range of DMX channels is 1 to 512.

4. Controlling Device Via DMX

The DMX controller is connected to the control box, as shown in the figure below:

OUTPUT
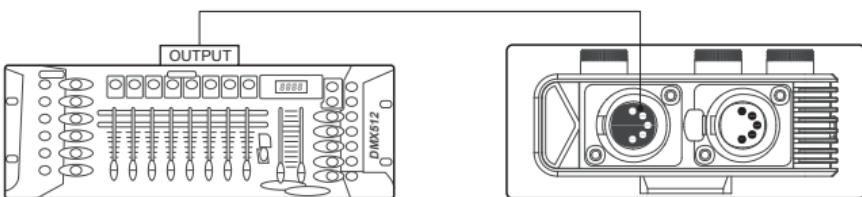
The Nova P600c offers a variety of DMX modes.Please find a detailed overview of all DMX modes in the document,NOVA P600c DMX Chart is available for free download on the Aputure official website https://www.aputure.com

Using the Sidus Link APP

You can download the Sidus Link app from the iOS App Store or Google Play Store for enhancing the functionality of the light. Please visit Sidus.link/app/help for more details regarding how to use the app to control your Aputure lights.

Get Sidus Link ® App

Sidus.link/app/help

Specifications

Operating Temperature		-20~45 ℃
Operating Voltage		100V~240V
Operating Current		8A
Power Input		≤720W
Power Output		≤600W
CCT		2000K ~10000K
CRI		≥95
TLCI		≥95
CQS		≥95
SSI(D55)		≥74
SSI(D32)		≥84
Control Method		Sidus Link®App, DMX512(5-Pin), LumenRadio, and Control Box
DC Operating Voltage / Current		48V 15A
Cooling Method		Active cooling
Weight	Light Head	13.74kg / 30.29lbs
	Controller Box	0.43kg / 0.947lbs
Dimensions (L*W*H)	Light Head	80.20*48.15*17.96cm / 31.57*18.95*7.07in
	Controller Box	15.75*9.66*4.58cm / 6.20*3.80*1.80in

Photometrics

Nova P600c	1m / 3.3ft	3m / 9.8ft	5m / 16.4ft
2700K	14,586 Lux	1,850 Lux	725 Lux
	1,356 fc	172 fc	67 fc
3200K	15,240 Lux	1,936 Lux	746 Lux
	1,416 fc	180 fc	69 fc
4300K	15,533 Lux	1,945 Lux	758 Lux
	1,444 fc	181 fc	70 fc
5600K	17,520 Lux	2,167 Lux	847 Lux
	1,628 fc	201 fc	79 fc
6500K	18,346 Lux	2,298 Lux	867 Lux
	1,705 fc	214 fc	81 fc

* This data is based on average brightness measurements, there will be slight variations between lights.