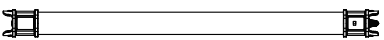
NANLITE

# PavoTube II 15C
# PavoTube II 30C
## USER MANUAL

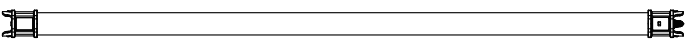
Guangdong NanGuang Photo&Video Systems Co., Ltd.

# PavoTube II 15C/30C RGBWW LED Tube Light

## Product Diagram



PavoTube II 15C



PavoTube II 30C

## Technical Data

### Model No: PavoTube II 15C

Rated Power: 30W

Input: DC15V/2A Max

AC100-240V 50/60Hz

PD3.0 (9V-20V) 20W Min

Lithium Battery Capacity: 14.8V/2200mAh

Color Temperature: 2700K-7500K

CRI: Average 97

TLCI: Average 98

### Model No: PavoTube II 30C

Rated Power: 60W

Input: DC15V/4A Max

AC100-240V 50/60Hz

PD3.0 (12V-20V) 30W Min

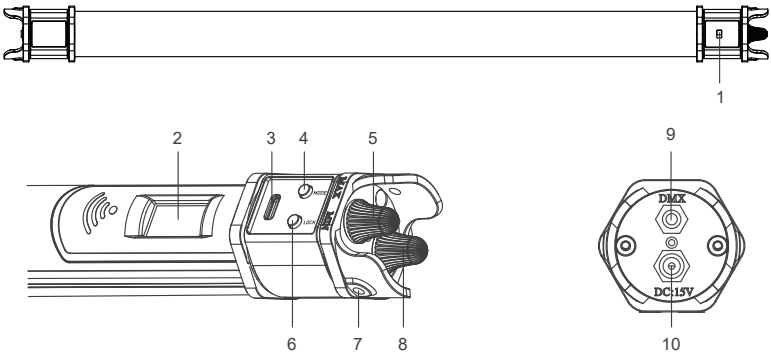
Lithium Battery Capacity: 14.8V/4400mAh

Color Temperature: 2700K-7500K

CRI: Average 97

TLCI: Average 98

## Product Details




## Detailed Description

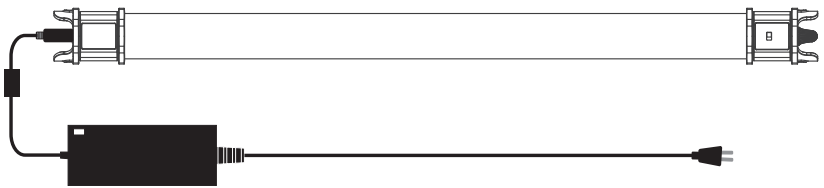
1. Power Switch: Turn on/off the fixture.
2. Display: To display data.
3. USB Type-C Port: For updating the firmware and power input. (Note:PavoTube II 15C is compatible with power adapter with PD3.0/20W and above, PavoTube II 30C is compatible with power adapter with PD3.0/30W and above.)
4. Mode Button: For switching among CCT, HSI, EFFECT modes and MENU.
5. Dimmer Knob:  For adjusting the brightness and other parameters.

6. Lock Button: Long press the LOCK button to lock all functions, any operation won't change the current settings. Long press the LOCK button again to unlock.
7. Fixing Hole: For hanging the fixture with steel wire rope.
8. Function Knob: For selecting among functions.
9. DMX Port: For inserting a DMX adapter cable, for DMX signal input and output. (Note: DMX adapter cable is not included and is sold separately.)
10. DC Power Socket: DC power input port.

## Usage

1. Power Connection

①Connection between light fixture and power adapter

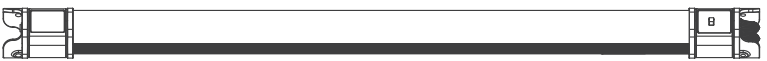


②The fixture has built-in lithium battery, it can supply power after being charged by power adapter.

2. Light Fixture Installation

①Horizontal & vertical standing options.

Upward in 90°

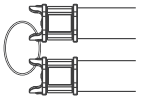


Upward in 60°

Upward in 60°

Upward in 0°

②The fixture can be hung with steel wire rope (The max load is 20KG).



Parallel Connection

Serial Connection

③The fixture can be also mounted on the light stand with 1/4-20" screws mount
(There are two 1/4-20" screw holes on the clip), or attached with a ball head, then mounted on the light stand.

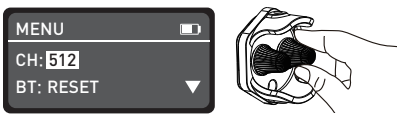
## Remote Control

· PavoTube II 15C/30C support remote control via DMX/RDM and 2.4G, and include built-in Bluetooth module as well.
▲The channel needs to be set before operating the remote control via 2.4G, DMX/RDM.

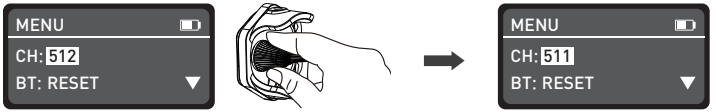
1. CHANNEL/DMX, including CHANNEL, DMX MODE, DMX REDUCED CHANNELS, DMX DIMMING CURVE, DMX SMOOTHING and WIRELESS DMX.

①CHANNEL

Press the MODE button to access options.



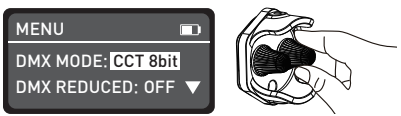

Rotate the “function knob” to CHANNEL.




Rotate the "dimmer knob" to set the channel code.

②DMX MODE

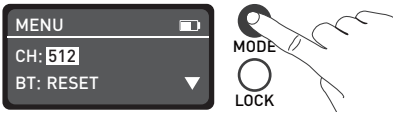
Press the MODE button to access options.



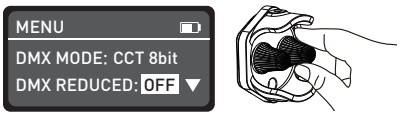

Rotate the "function knob" to DMX MODE.

Rotate the "dimmer knob" to select from CCT 8bit, CCT 16bit, HSI 8bit, HSI 16bit, RGBW 8bit, RGBW 16bit, ULTIMATE 8bit, CCT&RGBW 8bit, CCT&RGBW 16bit, CCT&HSI 8bit and CCT&HSI 16bit.

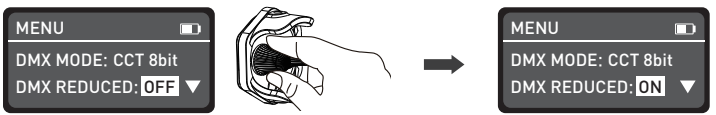
③DMX REDUCED CHANNELS




Press the MODE button to access options.



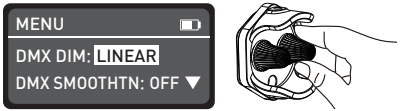

Rotate the "function knob" to DMX REDUCED CHANNELS.



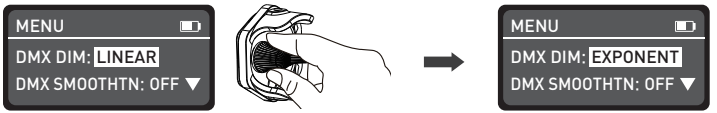

Rotate the "dimmer knob" to select ON or OFF.

④DMX DIMMING CURVE

Press the MODE button to access options.



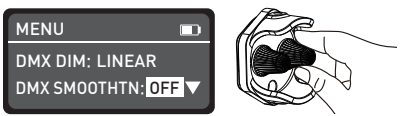

Rotate the "function knob" to DMX DIMMING CURVE.




Rotate the "dimmer knob" to select LINEAR, EXPONENT, LOGARITHM, S CURVE or GAMMA 2.2.

⑤DMX SMOOTHING

Press the MODE button to access options.

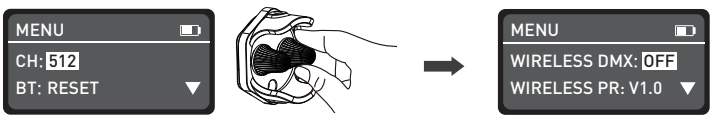



Rotate the "function knob" to DMX SMOOTHING.

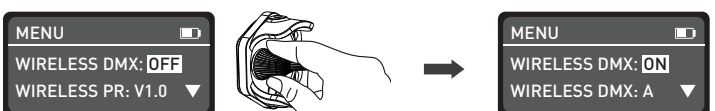
Rotate the "dimmer knob" to select ON or OFF.

⑥Wireless DMX Setting

Press the MODE button to MENU.




Rotate the "function knob" to WIRELESS DMX.




Rotate the "dimmer knob" to select ON/OFF.

When the wireless DMX is on, the wireless DMX universe can be set.

Rotate the "function knob" to WIRELESS DMX UNIVERSE.

Rotate the "dimmer knob" to select the desired universe, from A to H.

Remote control and transmitter box can't be used when wireless DMX is on.

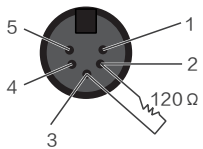
2. DMX Remote Control

①Connect the light fixture to the DMX/RDM console with a DMX connection cable.

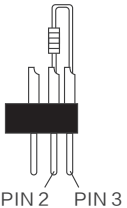
Connect the DMX connection cable to the console as shown below:

②DMX Terminator

In DMX control mode, the DMX output of the last fixture should be connected with a DMX terminator (not included). The terminator is connected with a 120Ω(OHM) resistor across Pin 2 and Pin 3 (as shown below). This prevents interference caused by DMX signals in the transmitting process.




DMX Terminator Connection
Connect a 120Ω(OHM) resistor across Pin 2 and Pin 3 in an XLR plug and insert into the DMX OUT socket on the last unit.




③Channel Setting

④Refer to the DMX reference guide and control the fixture via DMX/RDM console. (For detailed operation, please refer to the DMX/RDM console operation manual.)

Note: DMX reference guide 《PavoTube_II_15C_30C_DMX_REFERENCE_GUIDE_EN》 is downloadable from www.nanlite.com or from the QR code as below.

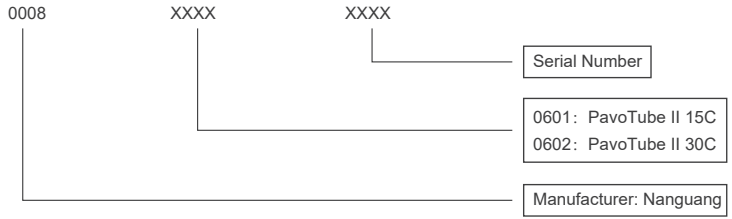
Please scan the QR code to check or download the latest DMX reference guide.

3. RDM Romote Control

①Connect the light fixture to the console with RDM function with a connection cable.

②Control the light fixture to the console with RDM function(For specific operation methods, please refer to the RDM console operation manual.)

Note: The UID format of the fixture is as follow:




4. 2.4G Remote Control

· PavoTube II 15C/30C can be remotely controlled by 2.4G remote controller and by NANLINK APP via the WS-TB-1 transmitter box. PavoTube II 15C/30C also has built-in bluetooth module and can be controlled via bluetooth.

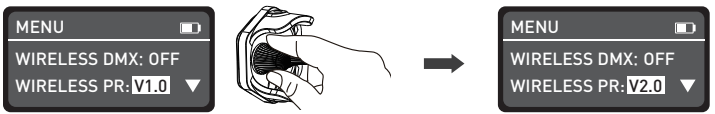
Note: ①2.4G remote controller and transmitter box are sold separately.

②The fixture supports 2.4G wireless protocol V1.0 and V2.0. The fixture should be set in V2.0 while using WS-RC-C2 remote controller, set in V1.0 while using other remote controllers.

②Wireless Protocol Setting

Press MODE button to MENU.

Rotate the "function knob" to WIRELESS PROTOCOL.




Rotate the "dimmer knob" to select V1.0 or 2.0.

## Operating Instructions

1. Toggle the power switch to turn on the fixture, "NANLITE" logo will be displayed, that means the fixture starts up normally.

2. MODE button: Press the MODE button to switch among CCT, HSI, EFFECT and MENU.

①CCT Mode: Press the MODE button to CCT, rotate the "function knob" to select DIM, CCT or G/M, rotate the "dimmer knob" to set the parameters of DIM, CCT and G/M. DIM range: 000% --- 100%, CCT range: 2700K --- 7500K, G/M range: -150 --- +150.

Press the MODE button to CCT.

Rotate the "function knob" to select DIM, CCT or G/M.

Rotate the "dimmer knob" to set the parameters of DIM, CCT and G/M.

Note:

(1) In EFFECT modes, the DIM parameter is the same as that in CCT mode.

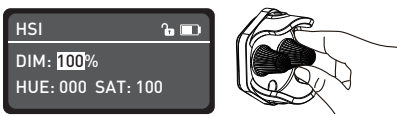
(2) In EFFECT modes, the CCT and G/M parameters are not synchronized with that in CCT mode, the CCT and G/M range are the same as that in CCT mode.

(3) When the fixture function is unlocked, in any mode, press the "dimmer knob" to turn off the fixture, and the DIM percentage on the screen will be 000%. Press again to restore the fixture to its previous state. Press continuously to switch the fixture betweeen on and off.

②HSI mode: Press the MODE button to HSI, rotate the "function knob" to select DIM, HUE or SAT, rotate the "dimmer knob" to set the parameters of DIM, HUE and SAT.

DIM range: 000% --- 100%, HUE range: 000 --- 360, the HUE is with a loop regulation, SAT range: 000 --- 100.

Press the MODE button to HSI.




Rotate the "function knob" to select DIM, HUE or SAT.

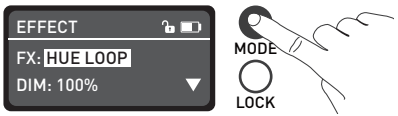
Rotate the "dimmer knob" to set the parameters of DIM, HUE and SAT.

Note:

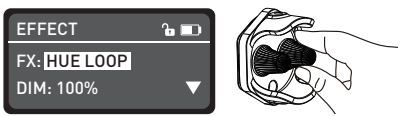
①In EFFECT modes, the DIM parameter is the same as that in CCT mode.

②In EFFECT modes, the HUE and SAT range are the same as that in HSI mode.

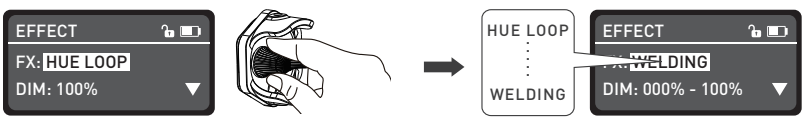
③EFFECT mode, press the MODE button to EFFECT, rotate the "dimmer knob", PavoTube II 15C/30C have built-in effects including HUE LOOP, CCT LOOP, INT LOOP, CCT FLASH, HUE FLASH, CCT PULSE, HUE PULSE, STORM AUTO, POLICE CAR, TV, PAPARAZZI, CANDLE/FIRE, DISCO, BAD BULB, FIREWORK, EXPLOSION AUTO and WELDING.




Press the MODE button to EFFECT.




Rotate the "function knob" to FX.

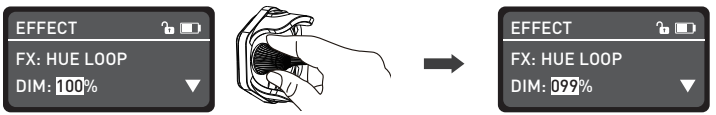



Rotate the "dimmer knob" to select the effects.

(1) HUE LOOP

HUE LOOP setting, rotate the "function knob" to select DIM, HUE or SPEED (range from: 2s -30s), and rotate the "dimmer knob" to set the parameters.

Rotate the "function knob" to select DIM, HUE or SPEED.

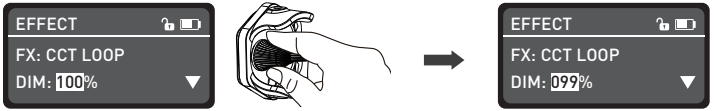



Rotate the "dimmer knob" to set the parameters.

(2) CCT LOOP

CCT LOOP setting, rotate the "function knob" to select DIM, CCT or SPEED (range from: 2s -30s), and rotate the "dimmer knob" to set the parameters.

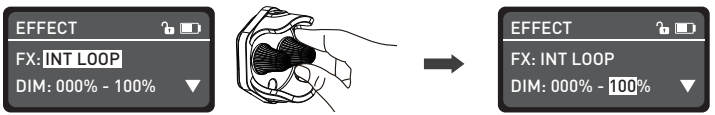
Rotate the "function knob" to select DIM, CCT or SPEED.



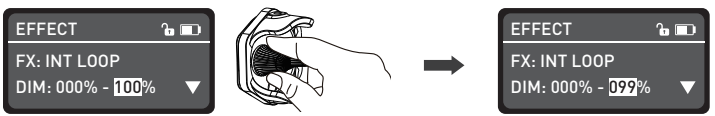

Rotate the "dimmer knob" to set the parameters.

(3) INT LOOP

INT LOOP setting, rotate the "function knob" to select DIM, SPEED (range from: 2s -30s) or COLOR (including CCT and HUE), and rotate the "dimmer knob" to set the parameters.




Rotate the "function knob" to select DIM, SPEED or COLOR.



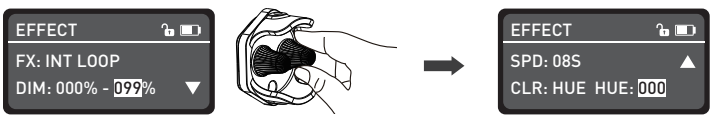

Rotate the "dimmer knob" to set the parameters.

· When COLOR setting is in CCT, rotate the "function knob" to CCT, and rotate the "dimmer knob" to set the CCT parameters.

Rotate the "function knob" to CCT.

Rotate the "dimmer knob" to set the CCT parameters.

· When COLOR setting is in HUE, rotate the "function knob" to HUE, and rotate the "dimmer knob" to set the HUE parameters.



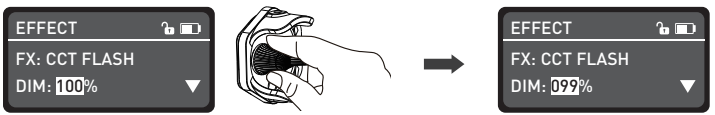

Rotate the "function knob" to HUE.

Rotate the "dimmer knob" to set the HUE parameters.

(4) CCT FLASH

CCT FLASH setting, rotate the "function knob" to select DIM, CCT, G/M or INTERVALS (range from: 0.1s -10.0s), and rotate the "dimmer knob" to set the parameters.

Rotate the "function knob" to select DIM, CCT, G/M or INTERVALS.




Rotate the "dimmer knob" to set the parameters.

(5) HUE FLASH

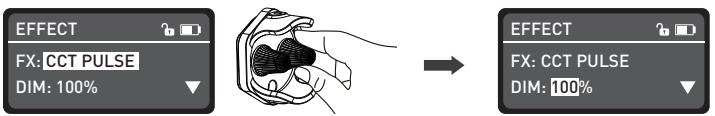
HUE FLASH setting, rotate the "function knob" to select DIM, HUE, SAT or INTERVALS (range from: 0.1s -10.0s), and rotate the "dimmer knob" to set the parameters.

Rotate the "function knob" to select DIM, HUE, SAT or INTERVALS.

Rotate the "dimmer knob" to set the parameters.

(6) CCT PULSE

CCT PULSE setting, rotate the "function knob" to select DIM, CCT, G/M or PULSES/MIN (range from: 001-240), and rotate the "dimmer knob" to set the parameters.



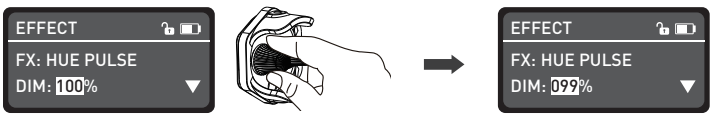

Rotate the "function knob" to select DIM, CCT, G/M or PULSES/MIN.

Rotate the "dimmer knob" to set the parameters.

(7) HUE PULSE

HUE PULSE setting, rotate the "function knob" to select DIM, HUE, SAT or PULSES/MIN (range from: 001-240), and rotate the "dimmer knob" to set the parameters.

Rotate the "function knob" to select DIM, HUE, SAT or PULSES/MIN.




Rotate the "dimmer knob" to set the parameters.

(8) STORM AUTO

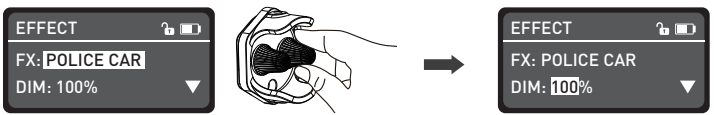
STORM AUTO setting, rotate the "function knob" to select DIM, CCT or INTERVALS (range from: 01s -60s), and rotate the "dimmer knob" to set the parameters.

Rotate the "function knob" to select DIM, CCT or INTERVALS.

Rotate the "dimmer knob" to set the parameters.

(9) POLICE CAR

POLICE CAR setting, rotate the "function knob" to select DIM, COLOR (including blue, red/blue, blue/white, red/blue/white) or SPEED (range from: 1 -100), and rotate the "dimmer knob" to set the parameters.



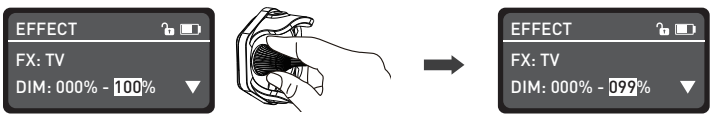

Rotate the "function knob" to select DIM, COLOR or SPEED.

Rotate the "dimmer knob" to set the parameters.

(10) TV

TV setting, rotate the "function knob" to select DIM, CCT, G/M or SPEED (range from: 001 -100), and rotate the "dimmer knob" to set the parameters.

Rotate the "function knob" to select DIM, CCT, G/M or SPEED.

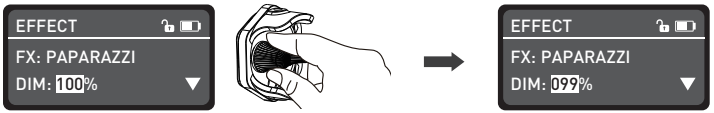



Rotate the "dimmer knob" to set the parameters.

(11) PAPARAZZI

PAPARAZZI setting, rotate the "function knob" to select DIM, CCT, G/M or SPEED (range from: 001 -100), and rotate the "dimmer knob" to set the parameters.

Rotate the "function knob" to select DIM, CCT, G/M or SPEED.




Rotate the "dimmer knob" to set the parameters.

(12) CANDLE/FIRE

CANDLE/FIRE setting, rotate the "function knob" to select DIM, CCT, G/M or SPEED (range from: 001 -100), and rotate the "dimmer knob" to set the parameters.

Rotate the "function knob" to select DIM, CCT, G/M or SPEED.

Rotate the "dimmer knob" to set the parameters.

(13) DISCO

DISCO setting, rotate the "function knob" to select DIM, COLOR (color range:03, 06, 09, 12, 15, 18, 21, 24) or SPEED (range from: 001 -100) and rotate the "dimmer knob" to set the parameters.

Rotate the "function knob" to select DIM, COLOR or SPEED.

Rotate the "dimmer knob" to set the parameters.

(14) BAD BULB

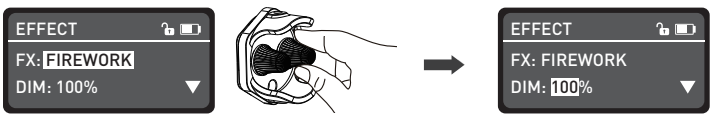
BAD BULB setting, rotate the "function knob" to select DIM, CCT, G/M or SPEED (range from: 001 -100), and rotate the "dimmer knob" to set the parameters.

Rotate the "function knob" to select DIM, CCT, G/M or SPEED.

Rotate the "dimmer knob" to set the parameters.

(15) FIREWORK

FIREWORK setting, rotate the "function knob" to select DIM, COLOR (color range:03, 06, 09, 12, 15, 18, 21, 24), SPEED (range from: 1 -100) or DECAY, and rotate the "dimmer knob" to set the parameters.



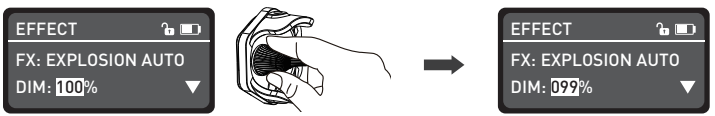

Rotate the "function knob" to select DIM, COLOR, SPEED or DECAY.

Rotate the "dimmer knob" to set the parameters.

(16) EXPLOSION AUTO

EXPLOSION AUTO setting, rotate the "function knob" to select DIM, CCT, G/M, SPEED (range from: 001 -100) or DECAY, and rotate the "dimmer knob" to set the parameters.

Rotate the "function knob" to select DIM, CCT, G/M, SPEED or DECAY.




Rotate the "dimmer knob" to set the parameters.

(17) WELDING

WELDING setting, rotate the "function knob" to select DIM, CCT, G/M, SPEED (range from: 001-100) or PAUSE (ON/OFF), and rotate the "dimmer knob" to set the parameters. When the PAUSE is ON, the fixture will black out.

Rotate the "function knob" to select DIM, CCT, G/M, SPEED or PAUSE.

Rotate the "dimmer knob" to set the parameters.

· Lighting effects and additional functionality will be probably updated with later firmware version. Detailed information is subject to the instruction of firmware function.

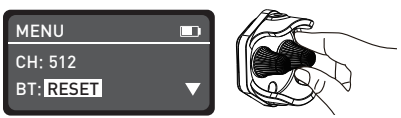
④MENU

Press the MODE button to MENU, rotate the "function knob" to select CHANNEL, BLUETOOTH, DMX MODE, DMX REDUCED CHANNELS, DMX DIMMING CURVE, DMX SMOOTHING, WIRELESS DMX, WIRELESS PROTOCOL, FIRMWARE UPDATE, LANGUAGE, VERSION.

(1) CHANNEL For detailed operations please refer to P5.

(2) BLUETOOTH Setting

Press the MODE button to MENU.




Rotate the "function knob" to BLUETOOTH.

Press the "function knob" to BLUETOOTH RESET.

Rotate the "function knob" to RESET.

Press the "function knob" to reset bluetooth, the screen will appear SET, and switch to the menu interface.

(3) DMX MODE

For detailed operations please refer to P6.

(4) DMX REDUCED CHANNELS

For detailed operations please refer to P7.

(5) DMX DIMMING CURVE

For detailed operations please refer to P7.

(6) DMX SMOOTHING

For detailed operations please refer to P8.

(7) WIRELESS DMX

For detailed operations please refer to P9.

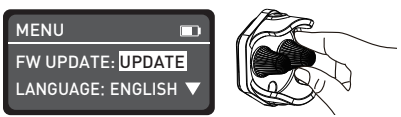
(8) WIRELESS PROTOCOL

For detailed operations please refer to P12.

(9) FIRMWARE UPDATE

Insert a USB drive with the latest firmware file onto the fixture.

Press the MODE button to MENU.



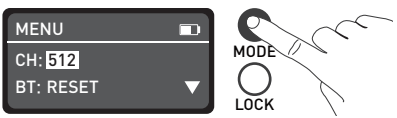

Rotate the "function knob" to FIRMWARE UPDATE.

Press the "function knob" to access the update interface.

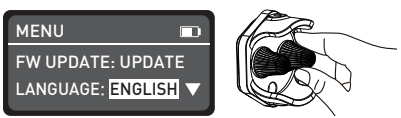
Rotate the "function knob" to select UPDATE.

Press the "function knob", the screen will prompt "FIRMWARE UPDATED" after the update is finished.

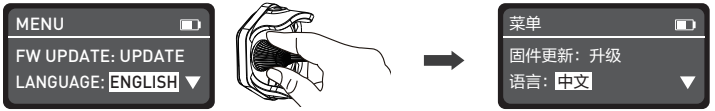
(10) LANGUAGE




Press the MODE button to MENU.



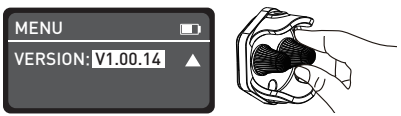

Rotate the "function knob"to LANGUAGE.




Rotate the "dimmer knob" to select ENGLISH or 中文.

(11) VERSION

Press the MODE button to MENU.




Rotate the "function knob" to VERSION to check the version of the fixture.

3. LOCK: Long press the LOCK button for 3 seconds to lock all functions, any operation won't change the current settings. Long press the LOCK button again to unlock.

4. Toggle the power switch to turn off the fixture.

## Safety Precautions

1. Please check for possible damage caused in transit after opening the package. Please do not use if damage is found. And contact with the distributor or manufacturer as soon as possible.
2. Please do not use a power cable with damaged insulation. Please do not unplug too hard or drag the power cable directly.
3. Please make sure the voltage of power supply accords with the voltage specified on the fixture before installation.
4. Please turn the fixture off when it is not in use or before cleaning.
5. Please keep the fixture safely stored and away from children.

## Notice

1. Please do not place any object on the fixture or allow liquid to flow inside the fixture.
2. Please do not place the fixture near any flammable or volatile substances like alcohol or gasoline.
3. Please do not use strong detergent for cleaning. Please wipe off the dirt by using a cloth with neutral cleanser when cleaning the fixture.
4. Please set up the fixture in a dry and well-ventilated place. Please do not use it in any humid, dusty or overheated environment. The temperature of the environment for the PavoTube II 15C should not be higher than 45℃, while the temperature for PavoTube II 30C should not be higher than 40℃. Please do not operate or store the fixture around objects with high heat.
5. Please do not disassemble the fixture at will to repair by yourself. Qualified professionals should conduct maintenance under the condition of strictly following the operating procedures described in this manual.

# What's in the box? Please kindly check.

## PavoTube II 15C 1KIT

| PavoTube II 15Cx1 | Power Adapter×1 | Clip×1 | User Manual×1 |
|---|---|---|---|
| | | | |
| Carrying Bag×1 | Power Cable×1 | Steel Wire Rope×2 | |
| | | | |

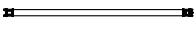
## PavoTube II 15C 2KIT

| PavoTube II 15C×2 | Power Adapter×2 | Clip×2 | User Manual×1 |
|---|---|---|---|
| Carrying Bag×1 | Power Cable×2 | Steel Wire Rope×4 | |

## PavoTube II 15C 4KIT

| PavoTube II 15Cx4 | Power Adapter×4 | Clip×4 | User Manual×1 |
|---|---|---|---|
| Carrying Bag×1 | Power Cable×4 | Steel Wire Rope×8 | |

## PavoTube II 30C 1KIT

| PavoTube II 30Cx1 | Power Adapter×1 | Clip×1 | User Manual x1 |
|---|---|---|---|
|  | | | |
| Carrying Bag×1 | Power Cable×1 | Steel Wire Rope×2 | |
| | | | |

## PavoTube II 30C 2KIT

| PavoTube II 30Cx2 | Power Adapter×2 | Clip×2 | User Manual×1 |
|---|---|---|---|
| Carrying Bag×1 | Power Cable×2 | Steel Wire Rope×4 | |

## PavoTube II 30C 4KIT

| PavoTube II 30Cx4 | Power Adapter×4 | Clip×4 | User Manual×1 |
|---|---|---|---|
| Carrying Bag×1 | Power Cable×4 | Steel Wire Rope×8 | |

## General Fault Detection and Diagnosis

| Fault Detection | Diagnosis |
|---|---|
| The light won't boot up properly. | 1. Please check whether the connection between power adapter and cable or fixture socket are loose.<br>2. Please check whether the voltage value is within the specified range.<br>3. Please check whether the power adapter conforms to the specified PD standard. |
| The fixture can be operated manually, but DMX control is not working. | 1. Please check whether the channel setting is correct.<br>2. Please check whether the DMX connection cable is connected correctly and without damaged. |
| The display screen is on but no light output. | Please check if the DIM is set to zero or in storm/welding effect. |
| The fixture is flickering. | 1. Please check if there are any high temperature object nearby that make the surrounding environment temperature too high.<br>2. Please ensure the fixture is not in EFFECT mode. |
| If the failure is not resolved after troubleshooting, please contact place of purchase. | |

This manual has been compiled according to the rigorous testing of NANLITE products. Product designs are subject to change without prior notice. You can download the latest version of the manual for this particular product from www.nanlite.com.

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