NANLITE

PavoTube II 15X
PavoTube II 30X
PavoTube II 60X
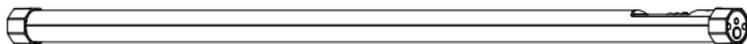### USER MANUAL

NANLITE

PavoTube II 15X/30X/60X
RGBWW LED Pixel Tube Light

█ Product Diagram
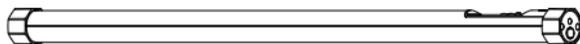
PavoTube II 15X

PavoTube II 30X

PavoTube II 60X

█ Technical Data

Model No.: PavoTube II 15X

Rated Power: 35W

Input Voltage/Current: DC15V/2A Max
                        AC100-240V
                        50/60Hz

Lithium Battery: 14.8V/2200mAh

Color Temperature: 2700K-12000K

CRI: Average 97

TLCI: Average 98

Model No.: PavoTube II 30X

Rated Power: 70W

Input Voltage/Current: DC15V/4A Max
                        AC100-240V
                        50/60Hz

Lithium Battery: 18.5V/4400mAh

Color Temperature: 2700K-12000K

CRI: Average 97

TLCI: Average 98

Model No.: PavoTube II 60X

Rated Power: 106W

Input Voltage/Current: DC15V/6.5A Max
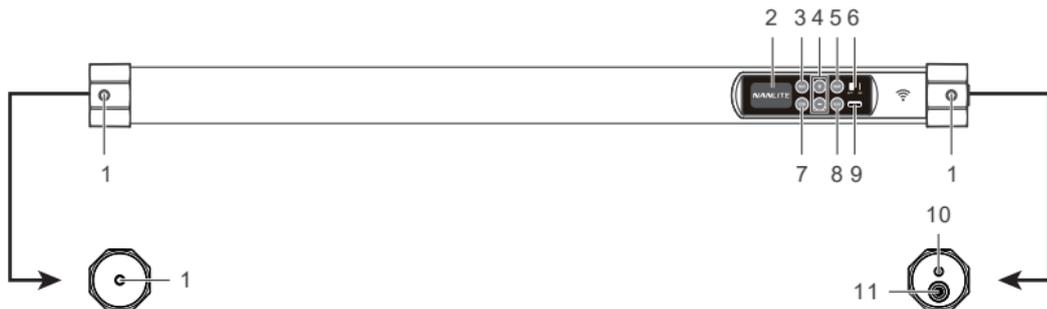   AC100-240V
                        50/60Hz

Lithium Battery: 18.5V/8800mAh

Color Temperature: 2700K-12000K

CRI: Average 97

TLCI: Average 98

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▍Product Details

▍Detailed Description

1. 1/4-20 Mount Receiver: To match the accessories with 1/4-20 mount.

2. Display: Menu and option display.

3. MODE Button: Switch between modes CCT, HSI, EFFECT, PIXEL FX and MENU.

4. " ⊕ " & " ⊖ ": Increase or decrease settings, supports long/short press.

5. TRIGGER Button: For triggering STORM MANUAL and EXPLOSION MANUAL effect.

6. Power Switch: Power on/off.

7. SWITCH Button: Switch selected options.

8. LOCK Button: Long press the LOCK button to lock functions, now operation buttons cannot change the current function, long press the LOCK button again to release the lock status.

9. USB Type-C port: For firmware updates.

10. DC Power Socket: DC power input interface.

11. DMX interface: plug in DMX adapter cable for DMX signal input and output.
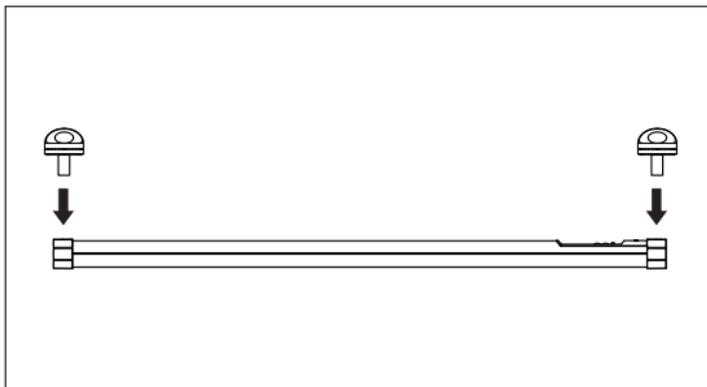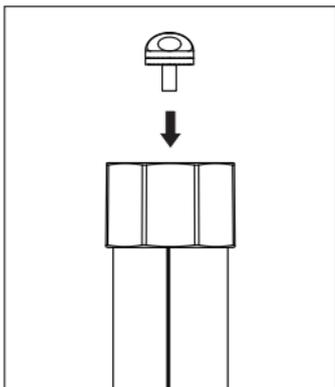   (Note: The DMX adapter cable is not included.)

Usage

1. Power Connection

①Connecting the fixture with power adapter.
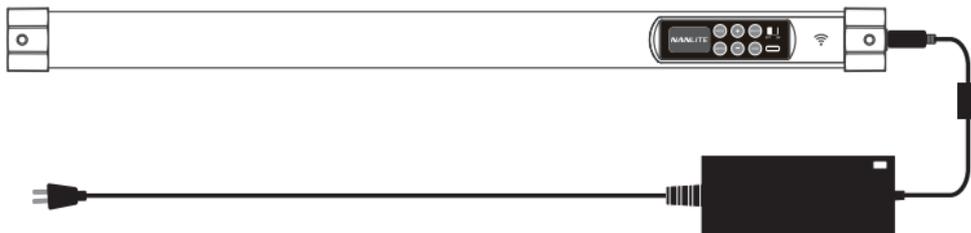
②Built in battery automatically powers unit once charged and unplugged from a power source.

2. Eyebolts Installation

Remote Control

· PavoTube II 15X/30X/60X supports remote control via 2.4G, DMX, RDM, and has built-in Bluetooth.

▲ The channel needs to be set before operating the remote control via 2.4G, DMX, RDM.

1. Channel Setting

PIXEL FX   🔒 🔋 6.0h
FX: HUE LOOP
DIM: 100%   ▼

MENU   🔒 🔋 6.0h
CH: 512
LANGUAGE: ENG   ▼

Press MODE button to switch to MENU interface.

MENU   🔒 🔋 6.0h
CH: 512
LANGUAGE: ENG   ▼

MENU   🔒 🔋 6.0h
CH: 511
LANGUAGE: ENG   ▼

Press " ⊕ " & " ⊖ " to set the corresponding parameters.

2. DMX Remote Control

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

   (1) The connection between the fixture and DMX adapter cable is as follows:

(2) The connection between the DMX adapter cable and console is as follows:

DMX IN

GND 1 — NC
DATA - 2 —
— NC
DATA + 3 —

DMX OUT

NC — 1 GND
— 2 DATA -
NC — 3 DATA +

· The connection between the light fixture and DMX/RDM console, light fixture and light fixture should use DMX adapter cable. (DMX adapter cable is not included.)
  XLR plug/socket and the wire should be connected as pictured.
· Pin1, Pin2, Pin3 for connecting DMX singal, Pin4, Pin5 is connectionless.
▲ Note: When connecting with socket, the internal pins should not be in contact with the inner case, and pins should not be in contact with each other.The fixture adapts to the DMX512 (1990) control signal.

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

5
1
4
2
120 Ω
3
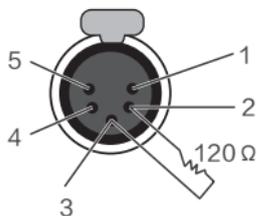
DMX Terminator Connection
Connect a 120Ω resistor across
Pin 2 and Pin 3 in an XLR plug
and insert into the DMX OUT
socket on the last fixture.

PIN 2   PIN 3
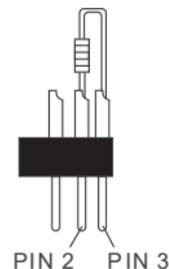
③Set the channel of the fixture.

④Refer to the DMX reference guide and control the light via DMX/RDM console.

  (For specific operation methods, please refer to the DMX/RDM console operation manual.)

 Note: DMX reference guide 《PavoTube_II_15X_30X_60X_DMX_REFERENCE_GUIDE_EN》please download it
     from www.nanlite.com or scan the QR code below to download.

Please scan the QR code to check or download the latest DMX reference guide.
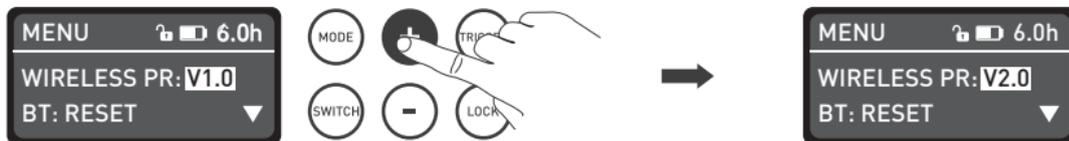
3. 2.4G Remote Control

   Set the channel of the 2.4G remote controller to be consistent with the light fixture, enabling the
   PavoTube II 15X/30X/60X to be remotely controlled by 2.4G remote controller or by APP via the transmitter box.
   Note: ①2.4G remote controller and transmitter box are sold separately.
       ②The fixture supports the 2.4G wireless protocol V1.0 and V2.0. Set fixture to V2.0 while using
         WS-RC-C1 or WS-RC-C2 remote controller. Set fixture to V1.0 while using other remote controllers.
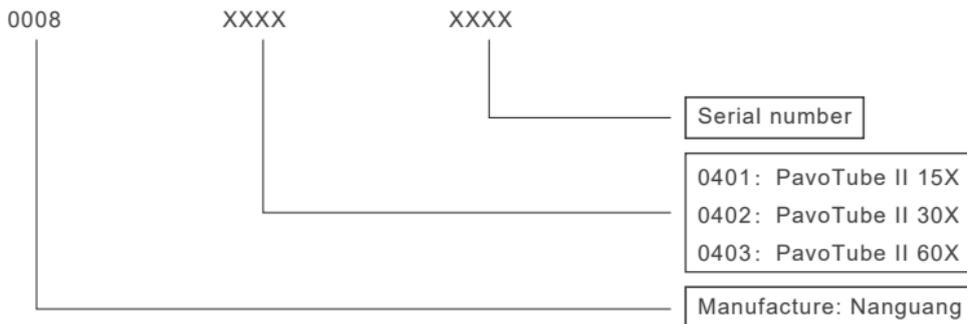

Press SWITCH button to WIRELESS PR.

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Press " + " " − " to select V1.0 or V2.0.

4. RDM Remote Control

① Connect the light fixture to the console with RDM function by DMX adapter cable.

② Control the fixture via a 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 follows:

0008	XXXX	XXXX

Serial number

| 0401: PavoTube II 15X |
| 0402: PavoTube II 30X |
| 0403: PavoTube II 60X |

| Manufacture: Nanguang |

Operating Instructions

1. Toggle the power switch to turn on the light, "NANLITE" logo will be displayed on start up.

2. MODE button: Press MODE button to switch between modes - CCT, HSI, EFFECT, PIXEL FX and MENU.
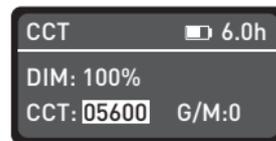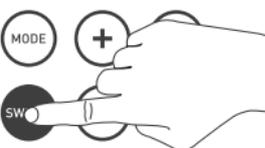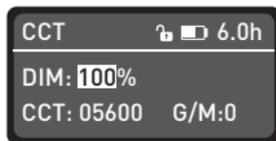
Battery indicator ——————— Time remaining

Unlock/lock state ———————
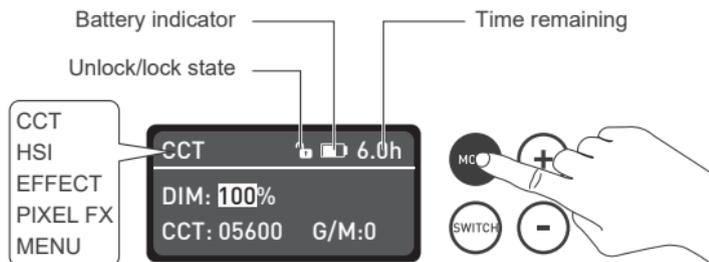
① In CCT Mode: press SWITCH button to select from DIM, CCT and G/M, press " + " and " - " to adjust the value of DIM, CCT and G/M.
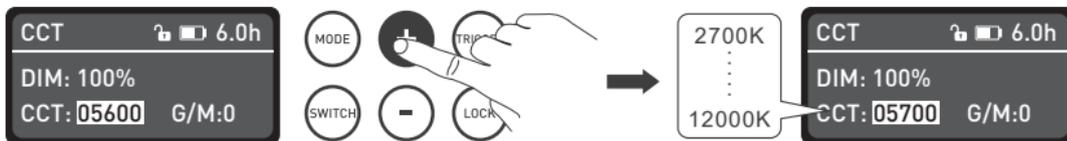
DIM range: 000% --- 100%   CCT range: 2700K --- 12000K   G/M range: -100 --- +100.

Press SWITCH button to select from DIM, CCT and G/M.

CCT   🔓 🔋 6.0h
DIM: 100%
CCT: 05600   G/M:0

MODE ➕ TRIP

SWITCH ➖ LOCK

2700K
⋮
12000K

CCT   🔓 🔋 6.0h
DIM: 100%
CCT: 05700   G/M:0

Pres " ➕ " and " ➖ " to set the corresponding parameters.

Note: In EFFECT mode, the adjustable range of DIM, CCT and G/M are the same as CCT mode.

②In HSI mode, press SWITCH button to select from DIM, HUE and SAT, press " ➕ " and " ➖ " to adjust the value of DIM, HUE and SAT.
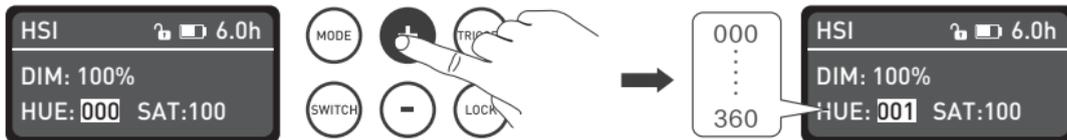
DIM range: 000% --- 100%   HUE range: 000 --- 360   SAT range: 000 --- 100.

HSI   🔓 🔋 6.0h
DIM: 100%
HUE: 000 SAT:100

MODE ➕

SW

HSI   🔓 🔋 6.0h
DIM: 100%
HUE: 000 SAT:100

Press SWITCH button to select from DIM, HUE and SAT.

HSI   🔓 🔋 6.0h
DIM: 100%
HUE: 000 SAT:100

MODE ➕ TRIP

SWITCH ➖ LOCK

000
⋮
360

HSI   🔓 🔋 6.0h
DIM: 100%
HUE: 001 SAT:100

Press " ➕ " and " ➖ " to set the corresponding parameters.

Note: In EFFECT mode, the adjustable range of DIM, HUE and SAT are the same as HSI mode.

③ In Effect mode, press " + " and " - " to select desired special effect. PavoTube II 15X/30X/60X has built-in effects including Hue Loop, CCT Loop, INT Loop, CCT Flash, HUE Flash, CCT Pulse, Hue Pulse, Storm Auto, Storm Manual, Police Car, TV, Paparazzi, Candle/Fire, Disco, Bad Bulb, Firework, Explosion Auto, Explosion Manual and Welding.
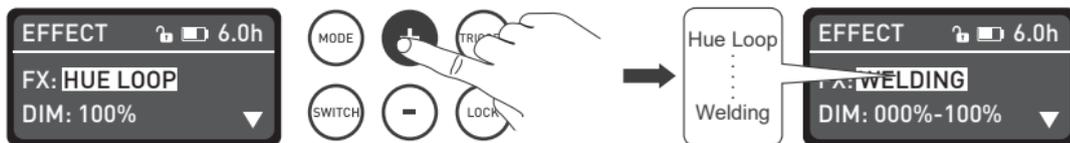
Press " + " and " - " to select select desired special effect.

Press SWITCH button to switch options.

④ In PIXEL FX mode, PavoTube II 15X/30X/60X has built-in effects including HUE LOOP, CCT LOOP, INT LOOP, MULTICOLOR, FADE, SCROLL, RAINBOW. The setting method is the same as Effect mode.

⑤ MENU

Press MODE button to switch to MENU, then press SWITCH button to switch between CH, LANGUAGE, DMX MODE, DMX PIXEL, WIRELESS PR, BLUETOOTH RESET and VERSION.

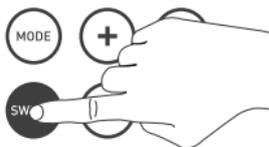（1）Channel setting, please refer to P4 for channel settings.

（2）Language setting

Press SWITCH button to LANGUAGE.
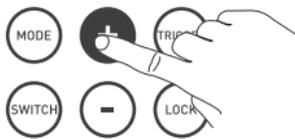

Press "➕" and "➖" to select the language.
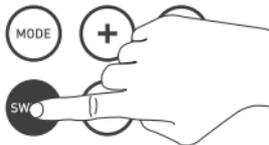
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(3) DMX MODE setting

| MENU 🔒 ▭ 6.0h |
| CH: 512 |
| LANGUAGE: ENG ▼ |

Press SWITCH button to DMX MODE.

➡️

| MENU 🔒 ▭ 6.0h |
| DMX MODE: CCT 8bit |
| DMX PIXEL: 8 ▼ |

| MENU 🔒 ▭ 6.0h |
| DMX MODE: CCT 8bit |
| DMX PIXEL: 8 ▼ |

Press " + " and " – " to select the desired DMX mode.

➡️

| MENU 🔒 ▭ 6.0h |
| DMX MODE: CCT 16bit |
| DMX PIXEL: 8 ▼ |

(4) DMX PIXEL setting

| MENU 🔒 ▭ 6.0h |
| DMX MODE: CCT 16bit |
| DMX PIXEL: 8 ▼ |

Press SWITCH button to DMX PIXEL.

➡️

| MENU 🔒 ▭ 6.0h |
| DMX MODE: CCT 16bit |
| DMX PIXEL: 8 ▼ |

| MENU 🔒 ▭ 6.0h |
| DMX MODE: CCT 16bit |
| DMX PIXEL: 8 ▼ |
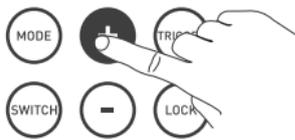
Press " + " and " – " to select the desired number of DMX pixels.

➡️

| MENU 🔒 ▭ 6.0h |
| DMX MODE: CCT 16bit |
| DMX PIXEL: 16 ▼ |

（5）Wireless protocol, please refer to P6 for wireless protocol settings.

（6）Bluetooth reset

| MENU 🔒🔋 6.0h |
| WIRELESS PR: V2.0 |
| BT: RESET ▼ |

Press SWITCH buton to BT.

| MENU 🔒🔋 6.0h |
| WIRELESS PR: V2.0 |
| BT: RESET ▼ |
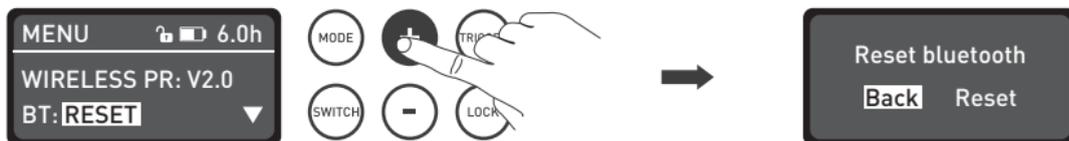
Press " ⊕ " and " ⊖ " to the interface of reset bluetooth.

| Reset bluetooth |
| Back   Reset |

Press SWITCH button to select Reset.

| Reset bluetooth |
| Back   Reset |
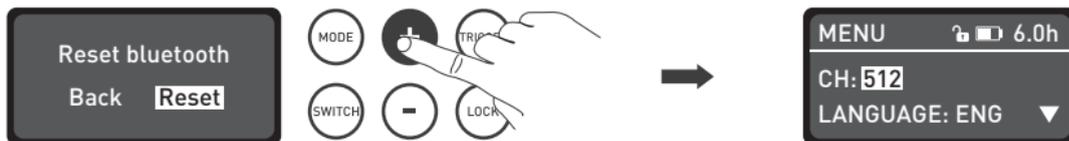
Press " ⊕ " or MODE button could reset the Bluetooth, and it will automatically return to the menu after Bluetooth reset.

| MENU 🔒🔋 6.0h |
| CH: 512 |
| LANGUAGE: ENG ▼ |

(7) VERSION

Press SWITCH button to VERSION to check the current version of the fixture.

· Lighting effects and additional functionality maybe added with future firmware releases, for details of these please see www.nanlite.com.

3. Toggle the power switch to turn off the light.

Safety Precautions

1. Please open the package to check for possible damage. If damaged, do not use. Please contact your dealer or the manufacturer as soon as possible.
2. Please do not use power cable which are faulty or have insulation damage. Please be careful when unplugging and do not drag the power cable.
3. Before installation, please make sure the power supply voltage is correct and compatible with that specified on fixture.
4. Please turn off the power when fixture is not in use or being cleaned.
5. Please operate the fixture safely. Keep fixture away from children.

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Notice

1. Do not place any object on the light fixture or let any liquid flow into the interior.

2. Avoid placing lamps near flammable and volatile substances, such as alcohol or gasoline.

3. When cleaning the fixture, please use soft cloth with neutral detergent to wipe off dirt. Please do not use abrasives or strong detergent.

4. The light should be operated safely where it won't be at risk of getting wet or under extreme temperature. The operating temperature of PavoTube II 15X and PavoTube II 30X should not be higher than 45°C, and the operating temperature of PavoTube II 60X should not be higher than 40°C. Do not use or store the fixture around objects with high heat.

5. Do not mount the PavoTube II 60X on LS-FL-1/4 stand.

6. Please do not disassemble the fixture or attempt to carry out repairs. Any required maintenance shiould be carried out by suitably qualified professionals, opeerating in strict compliance with the instructions described in this manual.

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

PavoTube II 15X 1KIT

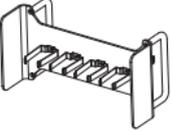| PavoTube II 15X × 1	15V2A Power Adapter × 1	Clip × 1	User Manual × 1
Carrying Bag × 1	Power Adapter Rubber Strap × 1	Eyebolt × 2	Power Cable 3M × 1

PavoTube II 15X 2KIT

PavoTube II 15X × 2	15V2A Power Adapter × 2	Clip × 2	User Manual × 1
Carrying Bag × 1	Power Adapter Rubber Strap × 2	Eyebolt × 4	Power Cable 3M × 2

PavoTube II 15X 4KIT

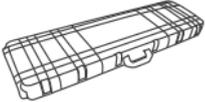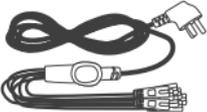| PavoTube II 15X × 4	15V2A Power Adapter × 4	Clip × 4	User Manual × 1
Carrying Bag × 1	Power Adapter Rubber Strap × 4	Eyebolt × 8	Power Cable 3M × 4

PavoTube II 15X 8KIT

PavoTube II 15X × 8	15V/2A Power Adapter × 8	Clip × 16	User Manual × 1
Hard Case × 1	Floor Stand × 8	Eyebolt × 16	Power Cable 3M × 8
1/8 DC Power Cable × 1	8-in-1 Power Adapter Holder × 1		

PavoTube II 30X 1KIT

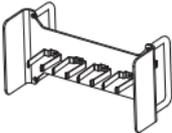| PavoTube II 30X × 1	15V4A Power Adapter × 1	Clip × 1	User Manual × 1
Carrying Bag × 1	Power Adapter Rubber Strap × 1	Eyebolt × 2	Power Cable 3M × 1

PavoTube II 30X 2KIT

PavoTube II 30X × 2	15V4A Power Adapter × 2	Clip × 2	User Manual × 1
Carrying Bag × 1	Power Adapter Rubber Strap × 2	Eyebolt × 4	Power Cable 3M × 2

PavoTube II 30X 4KIT

PavoTube II 30X × 4	15V4A Power Adapter × 4	Clip × 4	User Manual × 1
Carrying Bag × 1	Power Adapter Rubber Strap × 4	Eyebolt × 8	Power Cable 3M × 4

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PavoTube II 30X 8KIT

PavoTube II 30X × 8	15V/4A Power Adapter × 8	Clip × 16	User Manual × 1
Hard Case × 1	Floor Stand × 8	Eyebolt × 16	Power Cable 3M × 8
1/8 DC Power Cable × 1	8-in-1 Power Adapter Holder × 1		

PavoTube II 60X 2KIT

PavoTube II 60X × 2	15V6.5A Power Adapter × 2	Clip × 4	User Manual × 1
Power Cable 3M × 2	Power Adapter Rubber Strap × 2	Eyebolt × 4	

PavoTube II 60X 8KIT

PavoTube II 60X × 8	15V6.5A Power Adapter × 8	Clip × 16	1/8 DC Power Cable × 1
Power Cable 3M × 8	DMX Adapter Cable × 8	Eyebolt × 16	Magnet Tube Clip × 16
Multi-angle Mount × 16	Flight Case × 1	User Manual × 1	

▍General Fault Detection and Diagnosis

Fault Detection	Diagnosis
The fixture won't boot up properly.	1. Please check that the power adapter, cable and outlet are properly connected and that the cable is not faulty or loose. 2. Please check wether the voltage value is within the specified parameters.
The fixture can be operated manually, but DMX control is not working.	1. Please check whether the DMX original address setting of the fixture is correct. 2. Please check that the XLR signal cable is connected correctly and that it is not faulty or damaged.
The display is on but no light output.	Please check if the intensity is set to zero or if the light is in storm/welding mode.
The light is flickering.	1. Please ensure the fixture is not being operated in extreme temperatures. 2. Ensure the fixture is not in EFFECT mode.
If the failure is not resolved after troubleshooting, please contact place of purchase.	

This manual and all stats within it were produced under controlled conditions, and are accurate at time of print.
Any future changes to design/technical data can be found at www.nanlite.com.

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