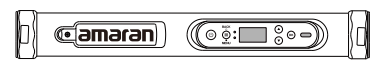


amaran[®]
by **Aputure**[®]



amaran PT

Product Manual

English

Introduction

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. Please keep amaran PT away from hard drives, credit cards, monitors, mechanical watches, mobile phones, medical devices (pacemakers), etc.
3. Close supervision is necessary when any fixture is used by or near children. Do not leave the fixture unattended while in use.
4. Care must be taken as burns can occur from touching hot surfaces.
5. 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.
6. Position any power cables such that they will not be tripped over, pulled, or put into contact with hot surfaces.
7. 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.
8. 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.
9. Let the lighting fixture cool completely before storing. Unplug the power cable from lighting fixture before storing and store the cable in assigned space of the carrying case.
10. To reduce the risk of electric shock, do not immerse this fixture in water or any other liquids.
11. 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.
12. 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.
13. Please power this fixture by connecting it to a grounded outlet.
14. Please do not block the ventilation or do not look at the LED light source directly when it is powered on. Please do not touch the LED light source in any condition.
15. Please do not place the LED lighting fixture near any flammable object.
16. Only use a dry microfiber cloth to clean the product.
17. Please do not use the light fixture in wet condition on account of electric shock may be caused.
18. 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.
19. 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.
20. When hanging the product overhead, always ensure an extra safety measure has been attached - such as a safety chain- that is certified for the weight of the product.
21. 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.
22. 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

WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTICE

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.

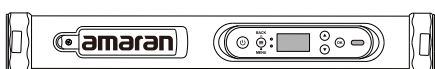
RF Warning Statement:

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.

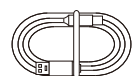
PT1c



PT1c x 1



Carrying Pouch x 1

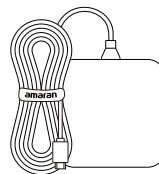


USB-C Cable x 1

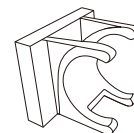
PT2c



PT2c x 1



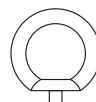
Power Adapter x 1



Magnetic T12 Bracket x 2



Carrying Bag x1



3/8"-16 Eyebolt x 1

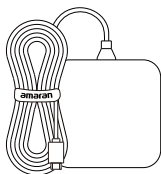
PT4c



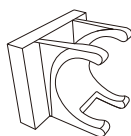
PT4c x 1



Carrying Bag x1



Power Adapter x 1



Magnetic T12 Bracket x 2

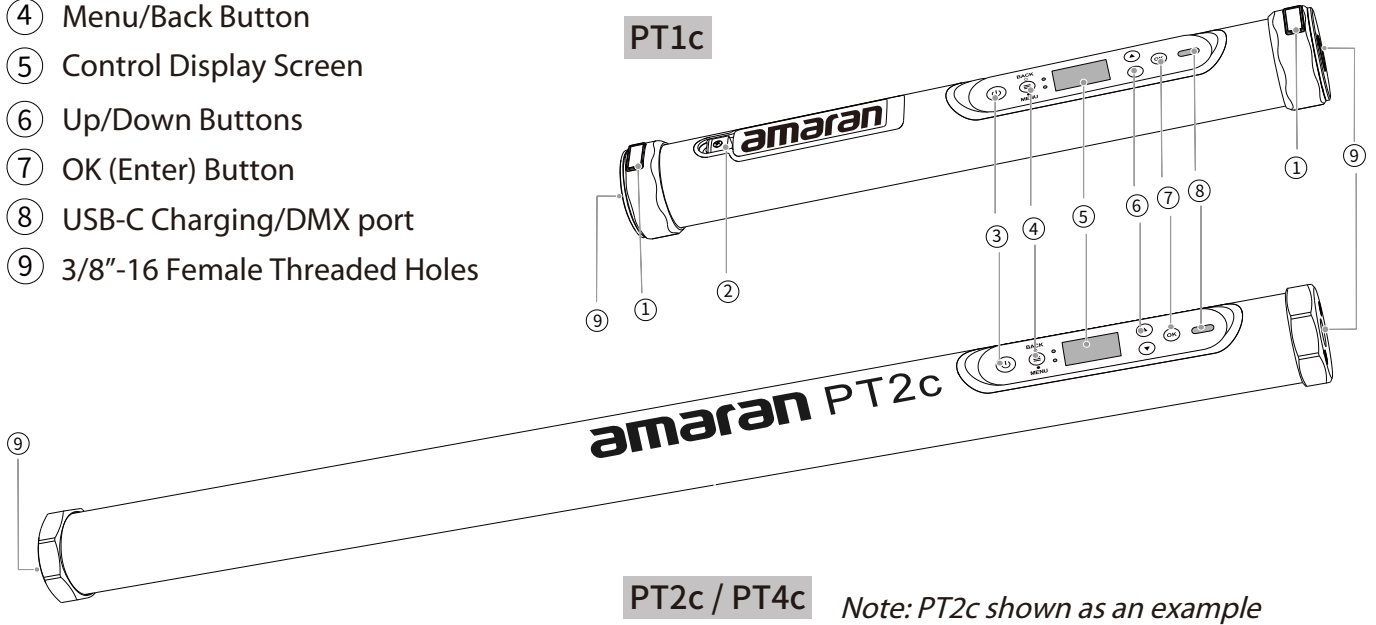


3/8"-16 Eyebolt x 1

Note: The illustrations in the manual are only diagrams for reference. Due to the continuous development of new versions of the product, if there are any differences between the product and the user manual diagrams, please refer to the product itself.

Product Details

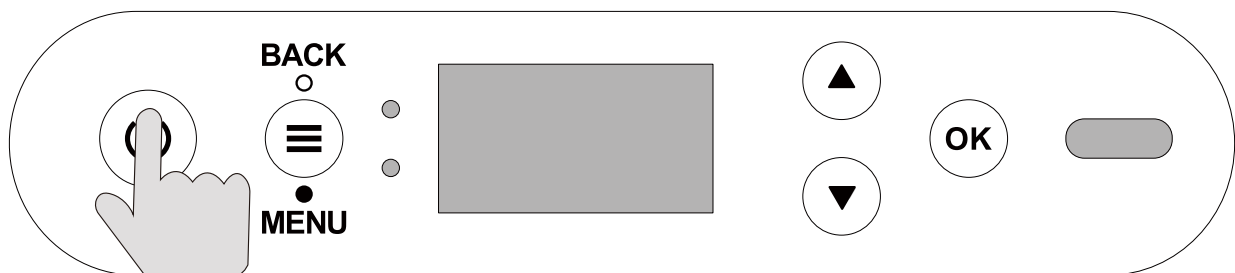
- ① Rotatable Magnets (PT1c Only)
- ② Battery Cover (PT1c Only)
- ③ Power Button
- ④ Menu/Back Button
- ⑤ Control Display Screen
- ⑥ Up/Down Buttons
- ⑦ OK (Enter) Button
- ⑧ USB-C Charging/DMX port
- ⑨ 3/8"-16 Female Threaded Holes



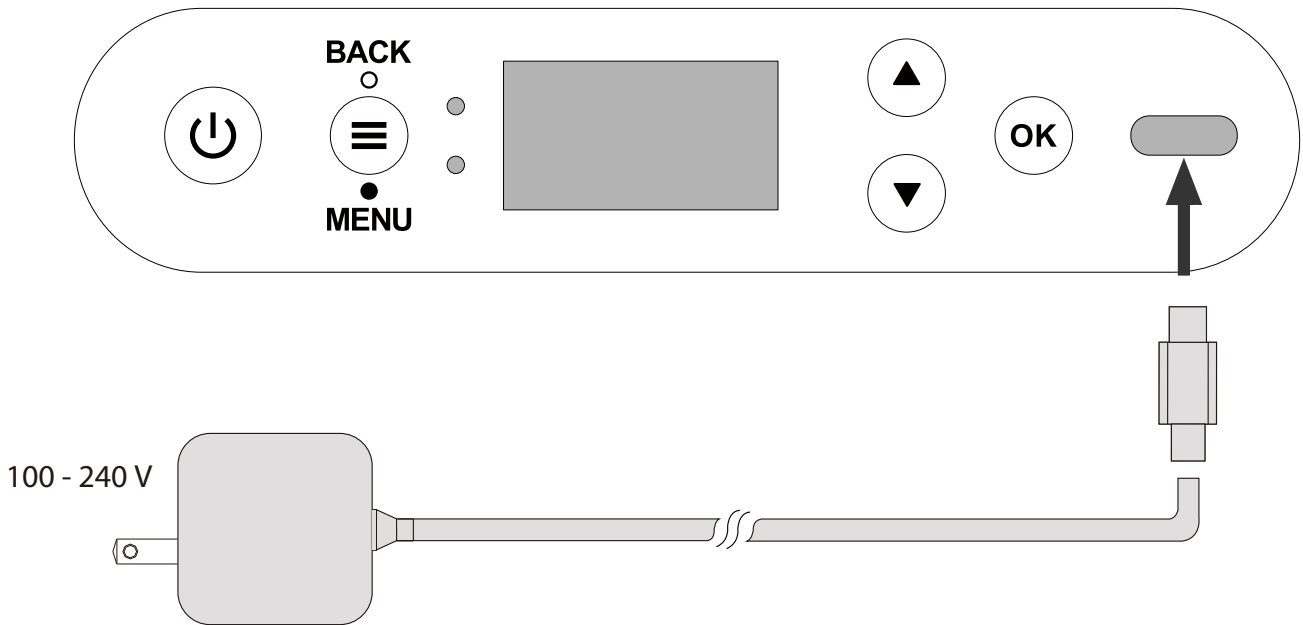
Operations

1. Power ON/OFF

Press and hold the power button for 3 seconds to turn the amaran PT on or off.



2. USB Type-C Charging

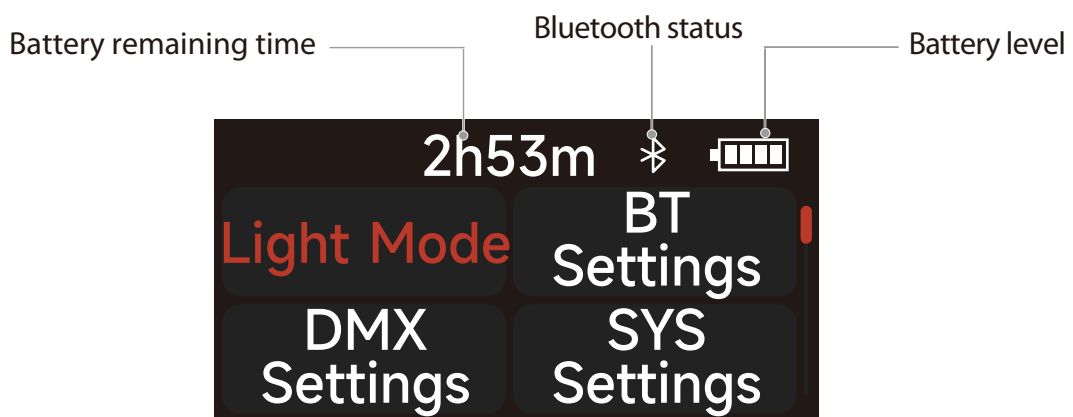


Note: PT1c only supports 5V/2A power adapter or mobile power charging.

Note: Charging rate will slow down when the light is powered on. Turn the light off for optimal charging.

3. Manual Control

3.1 Root Menu Screen



3.2 Menu

Press MENU to access the system menu, press the Up/Down buttons and press the OK button to select the Light Mode / Bluetooth Settings / DMX Settings / System Settings.

3.3 Light Mode

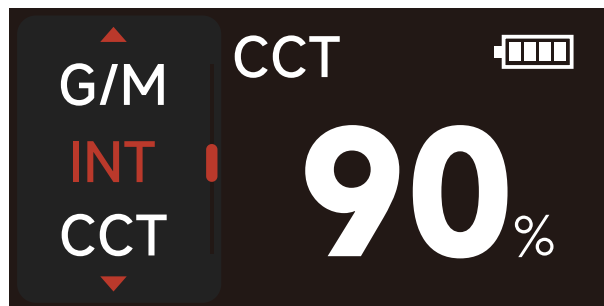
3.3.1 CCT

Press the Up/Down buttons and press the OK button to select CCT in Light Mode.

INT (Intensity): 0 - 100 %

CCT (Correlated Color Temp.): 2700 K - 10000 K

G/M (Green / Magenta adjustment): -1.0 ~ +1.0



3.3.2 HSI

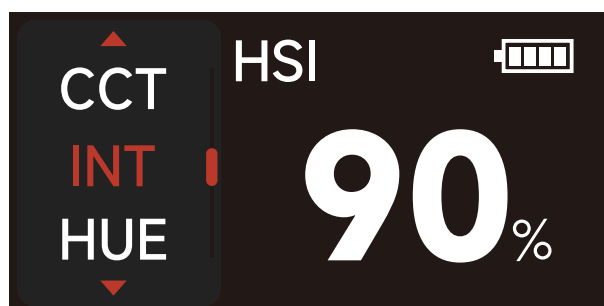
Press the Up/Down buttons and press the OK button to select HSI in Light Mode.

INT (Intensity): 0 - 100 %

HUE (Hue): 1 - 360°

SAT (Saturation): 0 - 100 %

CCT (Correlated Color Temp.): 2700 K - 10000 K

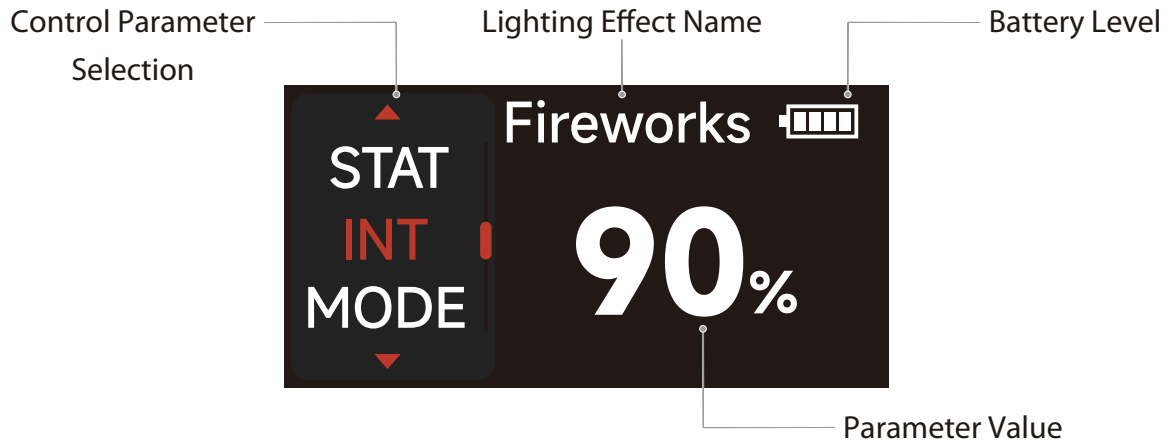


3.3.3 SYS FX

Press the Up/Down buttons and press the OK button to select SYS FX in Light Mode.

Press the Up/Down buttons and press the OK button to select one of the 9 available lighting effects.

SYS FX Sub-menu control screen layout:



Note: "Fireworks" SYS FX shown as an example.

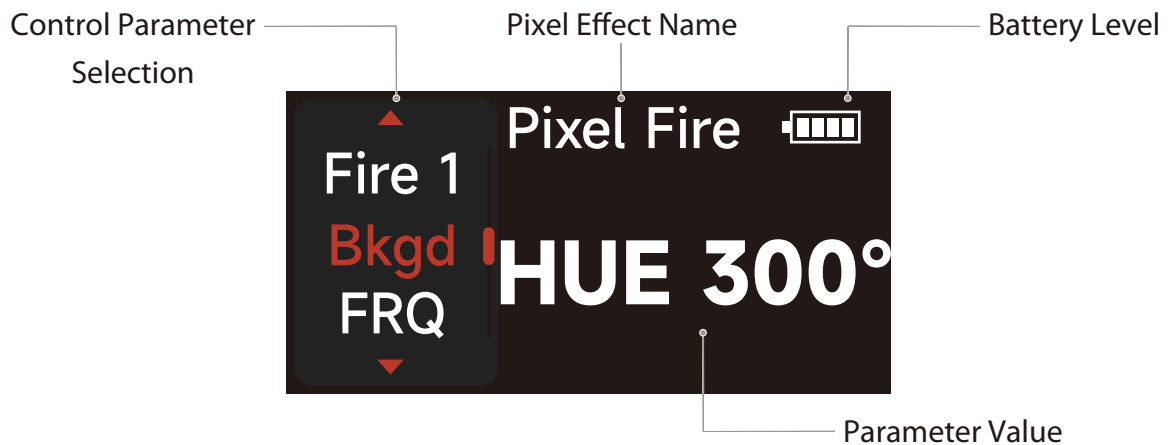
Note: Please refer to pages 16-20 for detailed information of control parameters.

3.3.4 Pixel FX

Press the Up/Down buttons and press the OK button to select Pixel FX in Light Mode.

Press the Up/Down buttons and press the OK button to select one of the 7 available pixel effects.

Pixel FX Sub-menu control screen layout:



Note: "Pixel Fire" Pixel FX shown as an example.

Note: Please refer to pages 16-20 for detailed information of control parameters.

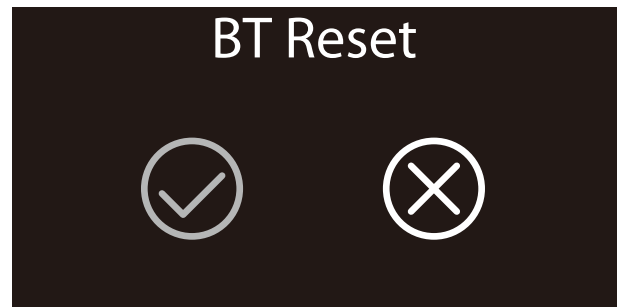
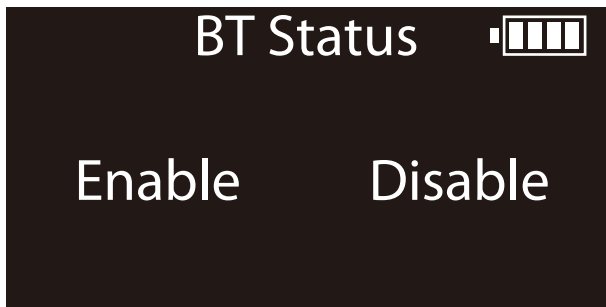
3.4 BT Settings

Press the Up/Down buttons and press the OK button to select BT Settings in system menu, Press the Up/Down buttons to select **BT Status** / **BT Reset** / **BT UID**.

BT Status : Turn on/off Bluetooth.

BT Reset : Reset the amaran PT Bluetooth connection, and your mobile phone or tablet will be able to connect to and control the light with Sidus Link App.

BT UID : Display the Bluetooth Unique Identifier.



3.5 DMX Settings

Press the Up/ Down buttons and press the OK button to select DMX Settings in system menu.

Press the Up/ Down buttons to select **DMX Settings**.

DMX Address : Set the DMX address of amaran PT, press and hold the OK button for 2 seconds to lock / unlock the DMX address (To prevent accidental touch to exit DMX mode).

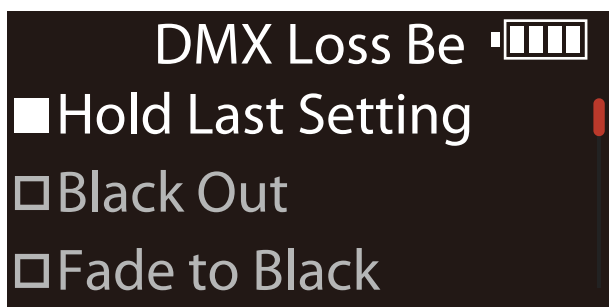
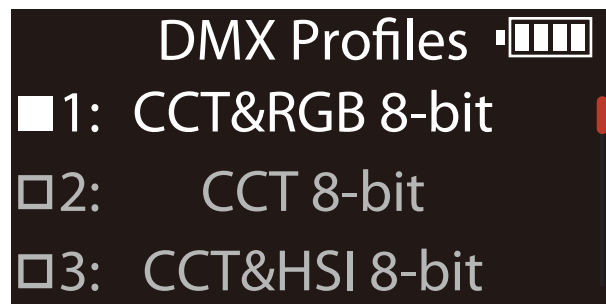
DMX Profiles: Press the Up/ Down buttons to choose DMX profile.

DMX Loss Behavior :

1. Hold Last Setting : After DMX signal is lost, remember the last control setting.
2. Black Out : When the DMX signal is lost, it will be Black out .
3. Fade To Black : After DMX signal is lost, it will fade to Black in 60 seconds.
4. After the DMX signal is lost, keep the last control setting for two minutes, and then Fade to Black within 60 seconds.

Note: 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.

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

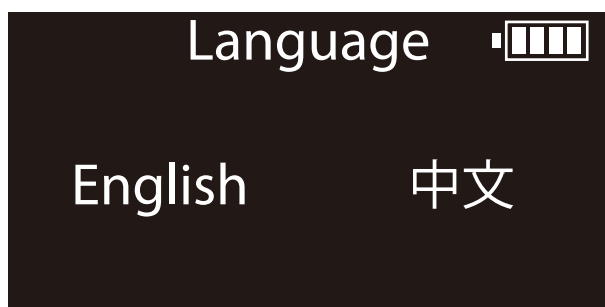


3.6 System Settings

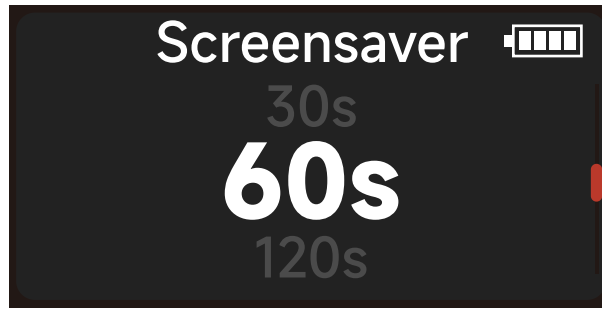
Press the Up/Down buttons and press the OK button to select System Settings in system menu.

Press the Up/ Down buttons to select **Language** / **Screensaver** / **Product Info** / **Factory Reset**.

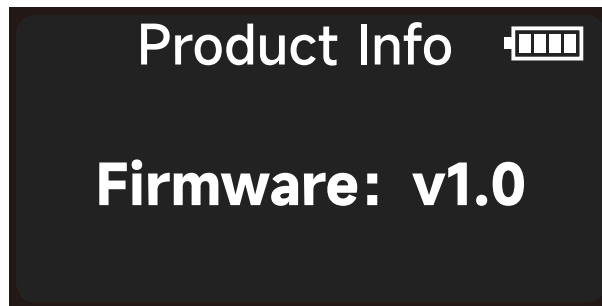
Language : Press the Up/ Down buttons and press the OK button to select **English** or **Simplified Chinese**.



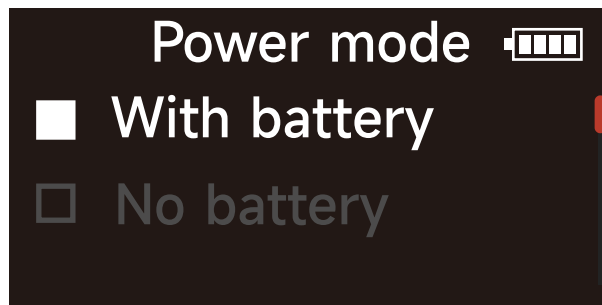
Screensaver: Press the Up/Down buttons and press the OK button to choose turn the screensaver on after 30/60/120 seconds or turn it off.



Product Info: Press the Up / Down buttons and press the OK button to select Product Info to see the Firmware Version.



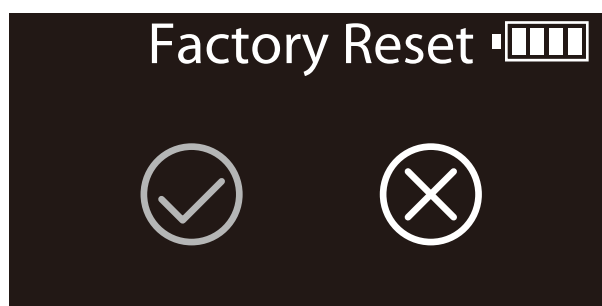
Power Mode: Press the Up/Down buttons and press the OK button to select a Power Mode.



With battery: Optimize battery life by prioritizing power supply when equipped with batteries.

No battery: Operate the light with a power adapter plugged in without battery, please turn on this function after removing the battery.

Factory Reset: Press the Up/Down buttons and press the OK button to select Factory Reset.



Factory Settings:

Light Mode: Intensity 50%, CCT 5600K, GM 0

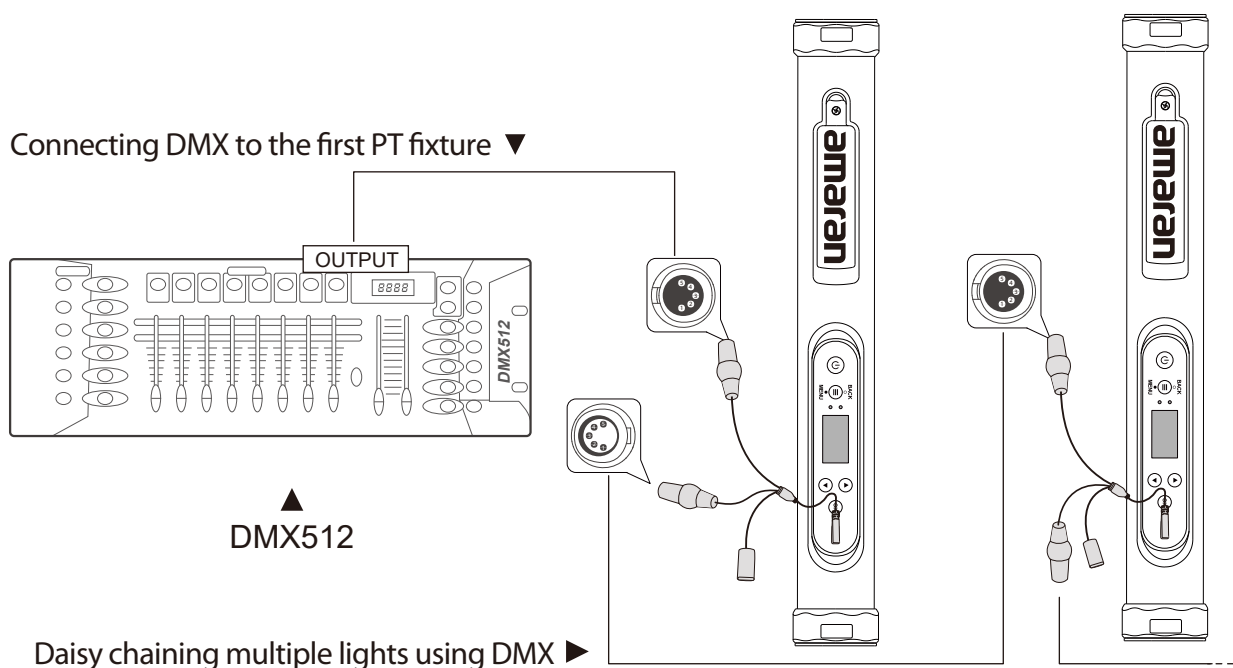
BT Status: ON

DMX: Address 001, Profile CCT&RGB, Hold Last Setting.

System setting: Language English, screensaver off.

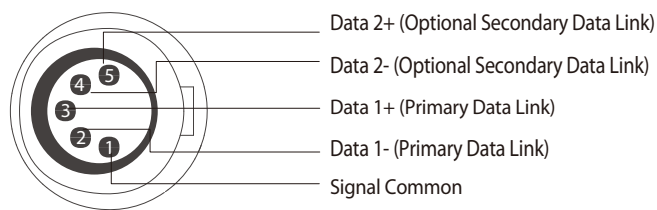
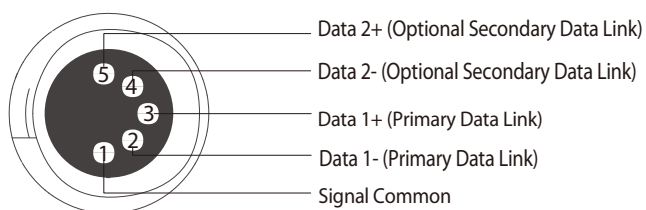
4. Wired DMX Control

4.1 Connect a standard DMX controller



** USB-C to DMX Adapter with USB-C Input sold separately.*

4.2 DMX Interface Info



4.3 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.*

4.4 Controlling Device Via DMX

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

5. 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](https://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](https://sidus.link/app/help)

Specifications

Maximum Power Draw	PT1C: 8W PT2C: 16W PT4C: 32W
Maximum Power Output	PT1C: 6W PT2C: 11.5W PT4C: 23W
CCT Range	2,700 - 10,000K
CRI (@5600K)	95
TLCI (@5600K)	98
CQS (@5600K)	96
SSI (Tungsten)	85
SSI (D56)	75
TM-30 Rf (@5600K)	92
TM-30 Rg (@5600K)	100
Pixel Mapping	PT1C: 4 PT2C: 8 PT4C: 16
Beam Angle	180°
Charging Input	USB Type-C
Battery Voltage	3.7V (PT1c), 14.8V (PT2c/PT4c)
Battery Capacity	PT1C: 2600mAh / 9.6Wh PT2C: 2600mAh / 38.48Wh PT4C: 5200mAh / 77Wh
Battery Runtime (@ 100% Intensity)	PT1C: 70 minutes PT2C: 170 minutes PT4C: 170 minutes
Charge Time	PT1C: 110 minutes PT2C: 170 minutes PT4C: 190 minutes

Operating Temperature	-10°C ~ 40°C / 14°F ~ 104°F
Control Methods	On-board, Sidus Link App, DMX via USB Type-C
Firmware Upgrade Method	Sidus Link
Wireless Operating Range (Bluetooth)	≤80m / ≤262.5ft
Screen Type	TFT
IP Rating	IP20
Cooling Method	Passive Cooling
Dimensions	PT1C: Φ42 x 300 mm / Φ1.6 x 11.8 in PT2C: Φ42 x 600 mm / Φ1.6 x 23.6 in PT4C: Φ42 x 1200 mm / Φ1.6 x 47.2 in
Weight	PT1C: 351 g / 0.77 lbs PT2C: 705 g / 1.55 lbs PT4C: 1375 g / 3.03 lbs

* USB-C to 5-Pin XLR In & Out adapter sold separately.

Photometrics

PT1c

CCT	0.5 m	1m
2700K	325 lux	87 lux
3200K	331 lux	88 lux
4300K	342 lux	91 lux
5600K	359 lux	95 lux
6500K	355 lux	94 lux
7500K	339 lux	89 lux
10000K	313 lux	83 lux

PT2c

CCT	0.5 m	1m
2700K	586 lux	180 lux
3200K	595 lux	181 lux
4300K	613 lux	185 lux
5600K	647 lux	195 lux
6500K	643 lux	194 lux
7500K	612 lux	185 lux
10000K	563 lux	83 lux

PT4c

CCT	0.5 m	1m
2700K	867 lux	303lux
3200K	868 lux	306 lux
4300K	897 lux	316 lux
5600K	956 lux	332 lux
6500K	955 lux	330 lux
7500K	902 lux	322 lux
10000K	842 lux	297 lux

** This is an averaged result. The luminance of your individual unit may vary slightly from this data.*

Detailed Parameters of FX Control

System FX

Paparazzi	INT	0% - 100%
	CCT	2700K - 10000K
	G/M	-1.0 - 1.0
	FRQ	1 - 10, Random
	Status	Stop / Loop

Lightning	INT	0% - 100%
	CCT	2700K - 10000K
	G/M	-1.0 - 1.0
	FRQ	1 - 10, Random
	Status	Stop / Trigger /Loop

TV	INT	0% - 100%
	CCT	Warmer
		Neutral
		Cooler
	FRQ	1 - 10, Random
	Status	Stop / Loop

Fire	INT	0% - 100%
	CCT	Warmer
		Neutral
		Cooler
	FRQ	1 - 10, Random
	Status	Stop / Loop

Faulty Bulb	INT	0% - 100%		
	Mode	CCT	FRQ	1 - 10, Random
			CCT	2700K - 10000K
			G/M	-1.0 - +1.0
		HSI	FRQ	1 - 10, Random
			HUE	0° - 359°
			SAT	0% - 100%
	Status	Stop / Loop		

Pulsing	INT	0% - 100%		
	Mode	CCT	FRQ	1 - 10, Random
			CCT	2700K - 10000K
			G/M	-1.0 - +1.0
		HSI	FRQ	1 - 10, Random
			HUE	0° - 359°
			SAT	0% - 100%
	Status	Stop / Loop		

Cop Car	INT	0% - 100%		
	Colors	R/ B/ R+B/ B+W/ R+B+W		
	FRQ	1 - 10, Random		
	Status	Stop / Loop		

Party Light	INT	0% - 100%		
	SAT	0% - 100%		
	FRQ	1 - 10, Random		
	Status	Stop / Loop		

Firework	INT	0% - 100%
	Mode	CCT
		HUE
		CCT+HUE
	FRQ	1 - 10, Random
	Status	Stop / Loop

Pixel FX

Color Fade	INT	0% -100 %
	Color No	2/ 3/ 4
	Color 1 Color 2 Color 3 Color 4	HUE: 30° /60°/90°/120°/150°/180°/210°/240°/ 270°/300°/330°/360° CCT: 2500K/3200K/4300K/5600K/6500K/7500K
	Speed	1 - 640 cm/s
	Move	Left / Right
	Status	Play/ Pause / Stop

Color Cycle	INT	0% - 100%
	Color No	2/3/4
	Color 1 Color 2 Color 3 Color 4	HUE: 30° /60°/90°/120°/150°/180°/210°/240°/ 270°/300°/330°/360° CCT: 2500K/3200K/4300K/5600K/6500K/7500K
	Speed	0.1-10.0S
	Transition	Step / Smooth
	Move	Left/ Right
	Status	Play / Pause / Stop

One Pixel Chase	Pixel INT	0%- 100%
	Bkgd INT	0%- 100%
	Pixel Size	S/M/L
	Departure	1 Way/ 2 Way
	Pixel 1 Background	HUE: 30° /60°/90°/120°/150°/180°/210°/240°/ 270°/300°/330°/360° CCT: 2500K/3200K/4300K/5600K/6500K/7500K
	Speed	1 - 640 cm/s
	Move	Left/ Loop/ Right
	Status	Play/ Pause/ Stop

Two Pixel Chase	Pixel INT	0%- 100%
	Bkgd INT	0%- 100%
	Pixel Size	S/M/L
	Departure	1 Way/2 Way
	Pixel 1 Pixel 2 Background	HUE: 30° /60°/90°/120°/150°/180°/210°/240°/ 270°/300°/330°/360° CCT: 2500K/3200K/4300K/5600K/6500K/7500K
	Speed	1 - 640 cm/s
	Move	Left/ Loop/ Right
	Status	Play/ Pause / Stop

Three Pixel Chase	Pixel INT	0%- 100%
	Bkgd INT	0%- 100%
	Pixel Size	S/M/L
	Departure	1 Way/2 Way
	Pixel 1 Pixel 2 Pixel 3 Background	HUE: 30° /60°/90°/120°/150°/180°/210°/240°/ 270°/300°/330°/360° CCT: 2500K/3200K/4300K/5600K/6500K/7500K Black (Background Only)
	Speed	1 - 640 cm/s
	Move	Left/ Loop/ Right
	Status	Play/ Pause / Stop

Rainbow	INT	0%- 100%
	Speed	1 - 640 cm/s
	Move	Left/ Right
	Status	Play / Pause / Stop

Pixel Fire	Dim Range	[0%-65%]-[25%- 100%]
	Bkgd INT	0%- 100%
	Color Blackground	HUE: 30° /60°/90°/120°/150°/180°/210°/240°/ 270°/300°/330°/360° CCT: 2500K/3200K/4300K/5600K/6500K/7500K
	Frequency	0.1-10Hz
	Move	Horizontal / Vertical
	Status	Play/ Pause/ Stop