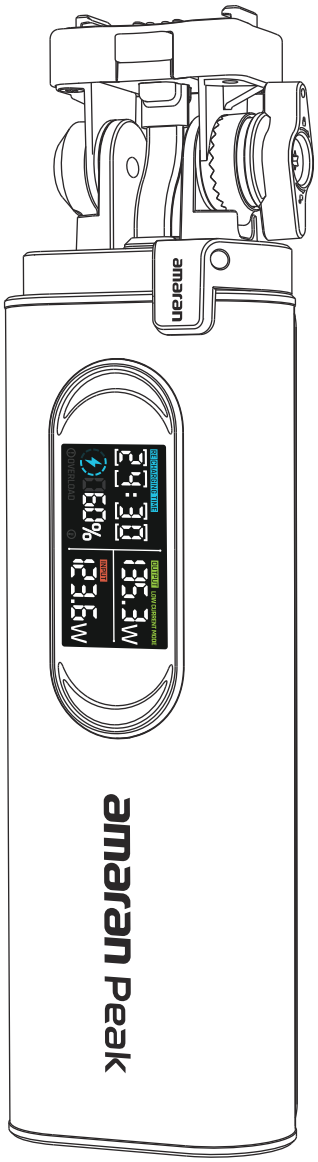
amaran®



amaran Peak

Product Manual

English

Table of Content

Introduction 03

Components List 04

Product Overview 06

Operations 07

- Installing the amaran Ace E-Lock Expansion Module 07
- Remove the amaran Ace E-Lock Expansion Module 08
- amaran Ace E-Lock Expansion Module Angle Adjustment Instructions 09
- Connecting amaran Lighting Products to amaran Peak 10
- Display Logic 13
- Button Operation Logic 15

Specifications 16

Declaration of Toxic and Hazardous Substances in Electronic Information 17

Important Safety Instructions 18

IC Regulatory Conformance 20

FCC Compliance Statement 21

Disclaimer 22

Introduction

Thank you for purchasing the amaran Peak.

The amaran Peak is a newly launched 170W-rated portable power solution designed for on-the-go content creation. It supports up to 140W max input fast charging and 170W max output fast charging. It uses premium lithium-ion batteries and advanced power management chips to ensure excellent safety, efficiency, and compatibility.

The product features automatic charging and discharging detection, eliminating the need for manual button operation. amaran Peak offers you a lightweight, high-capacity, and cost-effective portable power solution.

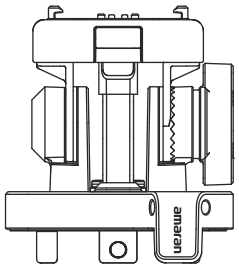
Components List

Please make sure all accessories listed below are complete before using.

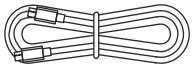
If not, please contact your sellers immediately.



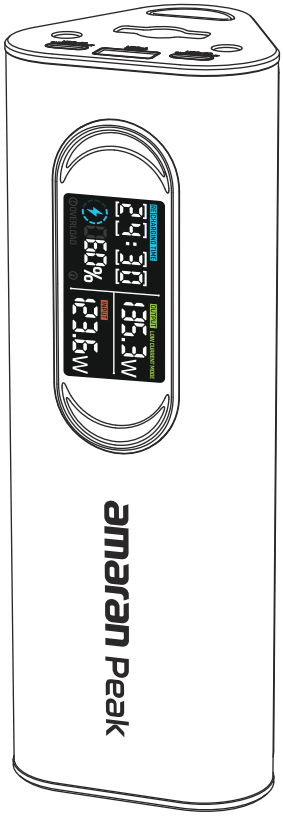
1/4"-20 to 3/8"-16 Screw Adapter × 1



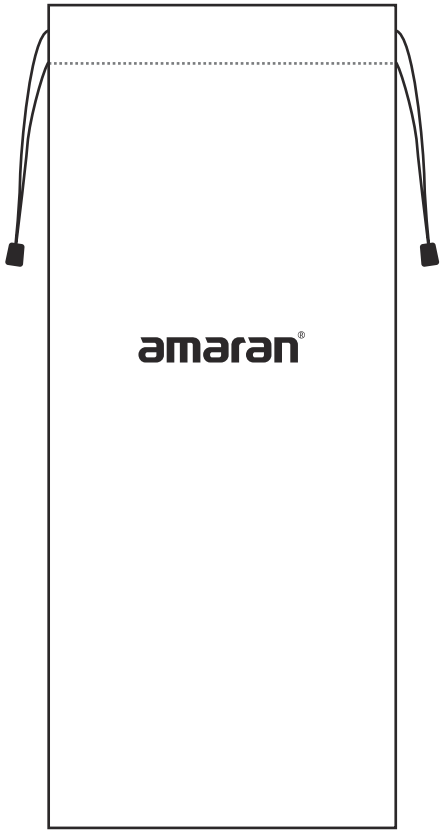
amaran Ace E-Lock Expansion Module × 1



amaran USB-C Charging Cable (50cm) × 1

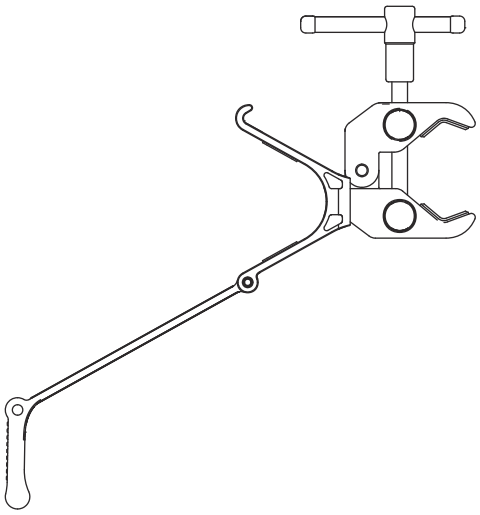


amaran Peak × 1



amaran Peak Drawstring Pouch × 1

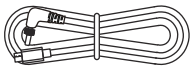
Optional Accessories (Sold Separately)



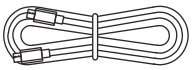
amaran Peak Light Stand Clamp × 1



amaran Ace E-Lock Adapter
(1/4” & 3/8” Screw Compatible) × 1



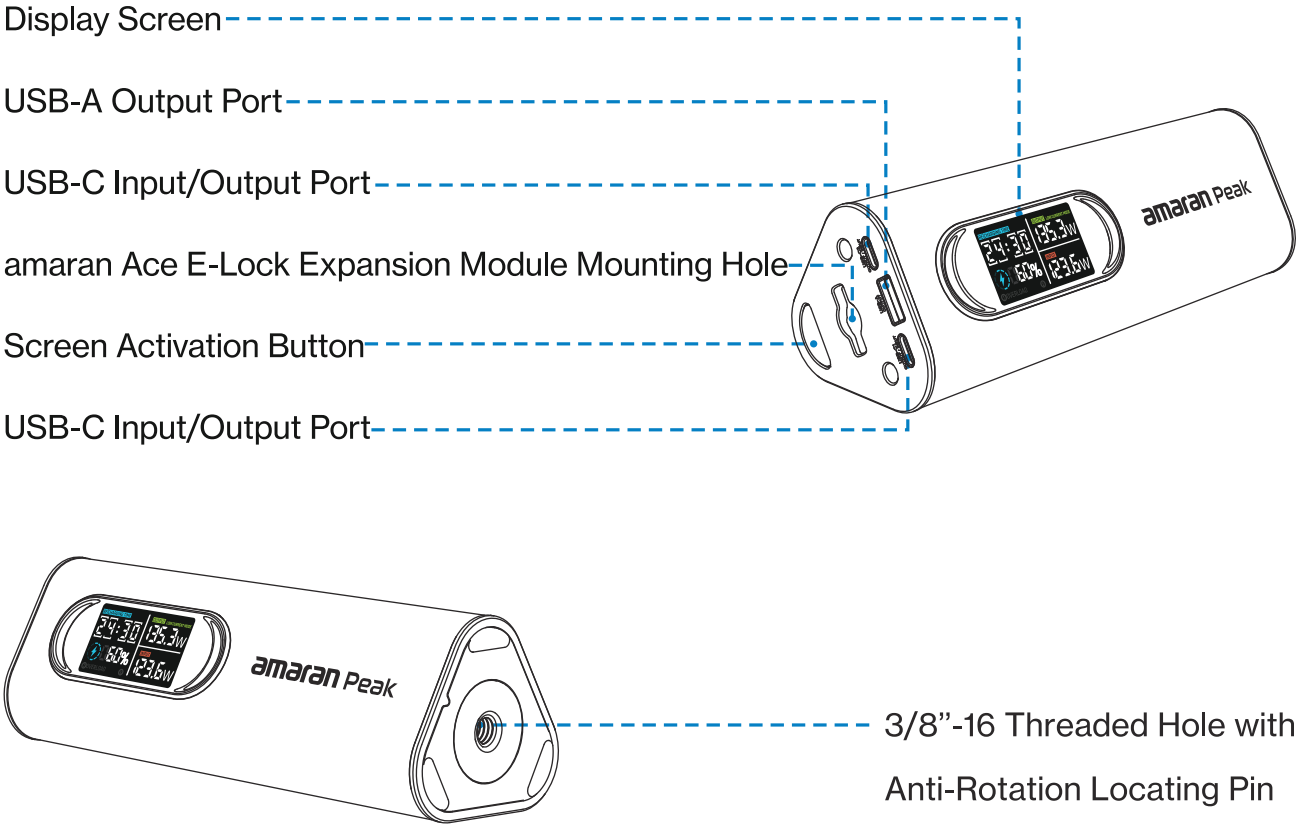
amaran USB-C to DC
20V Power Adapter Cable (300cm) × 1



amaran USB-C Charging Cable (150cm) × 1

Tip: The illustrations in the manual are diagrams for reference only. 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.

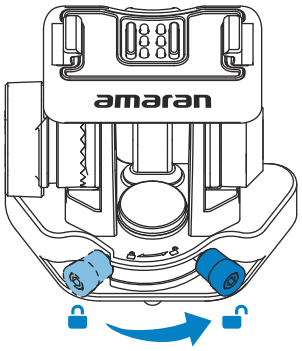
Product Overview



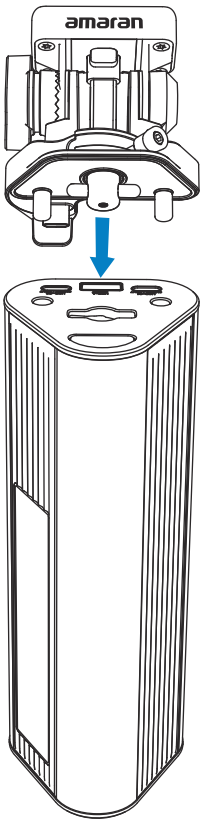
Operations

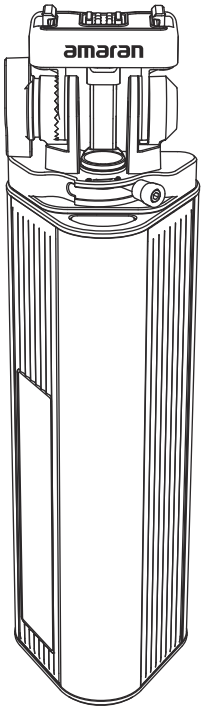
Installing the amaran Ace E-Lock Expansion Module

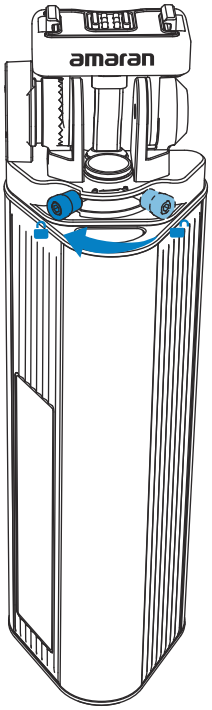
1. Move the lever to the unlock position.



2. Align the positioning pin of the amaran Ace E-Lock Expansion Module with the positioning hole on top of the amaran Peak.
3. Slide the module in until it is fully seated.
4. Rotate the lock/unlock lever clockwise until you hear a “click” or feel it engage, indicating the module is securely locked.

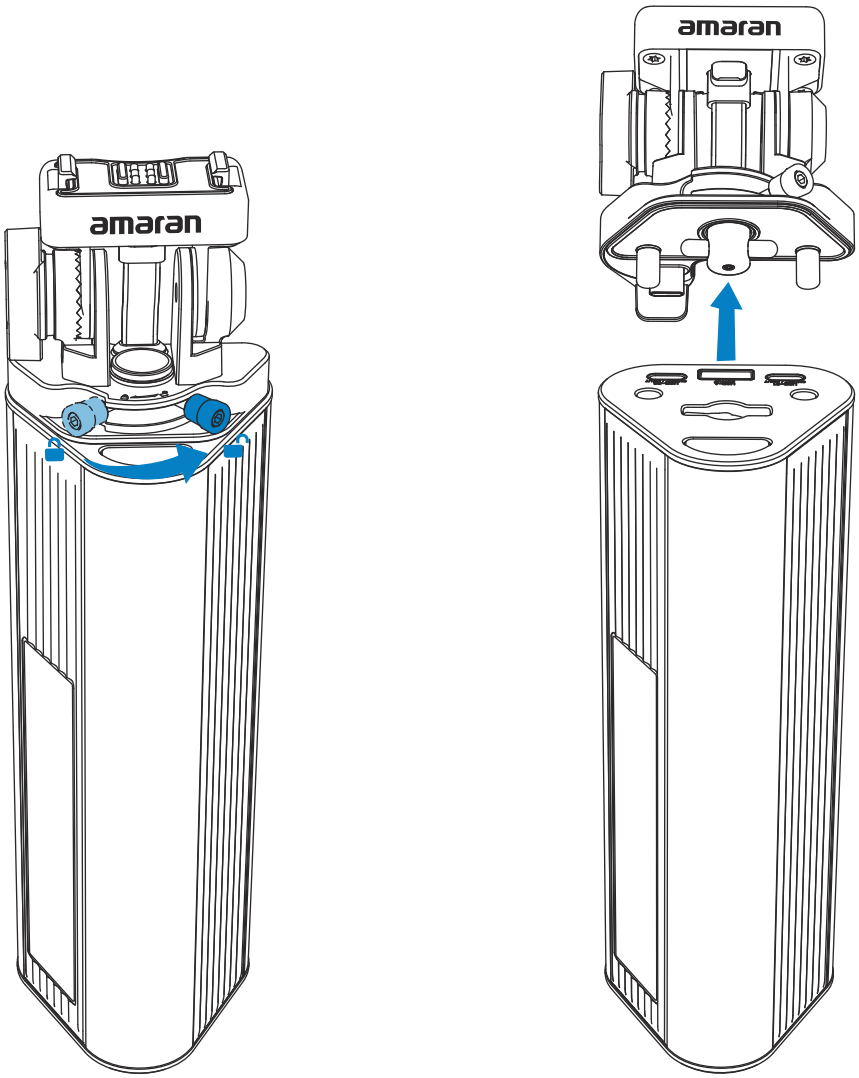






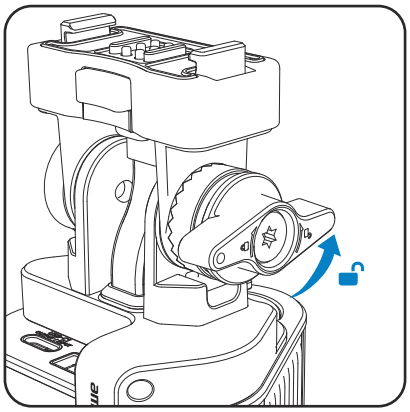
Removing the amaran Ace E-Lock Expansion Module

1. Unlock the lever: Pull the lock/unlock lever outward while rotating it counterclockwise until it reaches the limit.
2. Remove the module: Gently pull the module outward to separate the amaran Ace E-Lock Expansion Module from the amaran Peak.

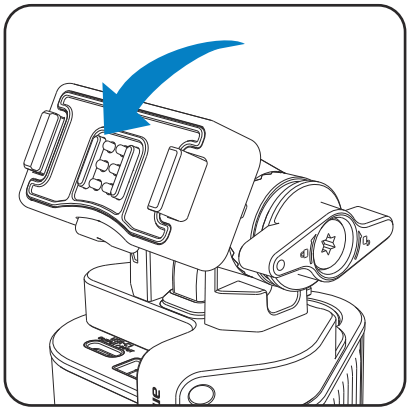


amaran Ace E-Lock Expansion Module Angle Adjustment Instructions

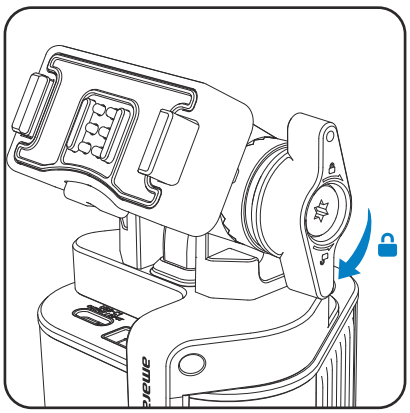
1. Unlock the angle:Rotate the angle adjustment knob counterclockwise approximately 90° to release the lock.



2. Adjust the angle:Adjust the module to the desired angle.



3.Lock the angle:After adjustment, rotate the knob clockwise approximately 90° to lock it securely.

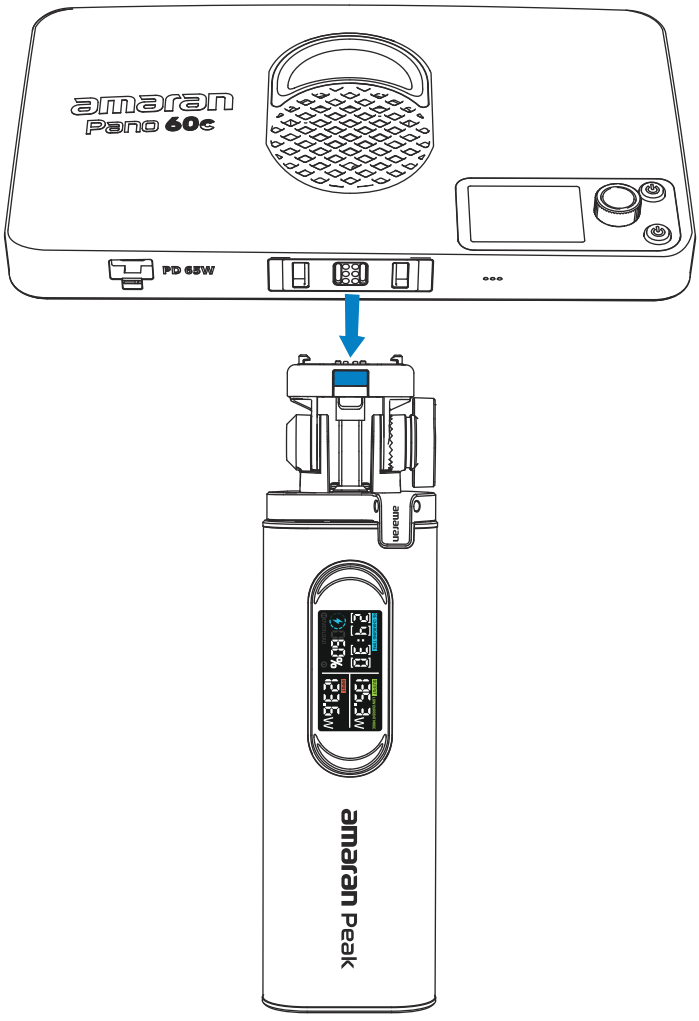


Connecting amaran Lighting Products to amaran Peak

1. Quick Connection via amaran Ace E-Lock

When connecting the light fixture to the amaran Peak, ensure the blue release button is facing the back of the fixture. Align the Ace E-Lock hooks on the amaran Peak with the mounting socket on the fixture. Then, press the fixture straight down firmly until you hear a click.When you hear a “click,” the connection is secured. No additional power cables are required — the fixture receives power directly through the Ace E-Lock connection.

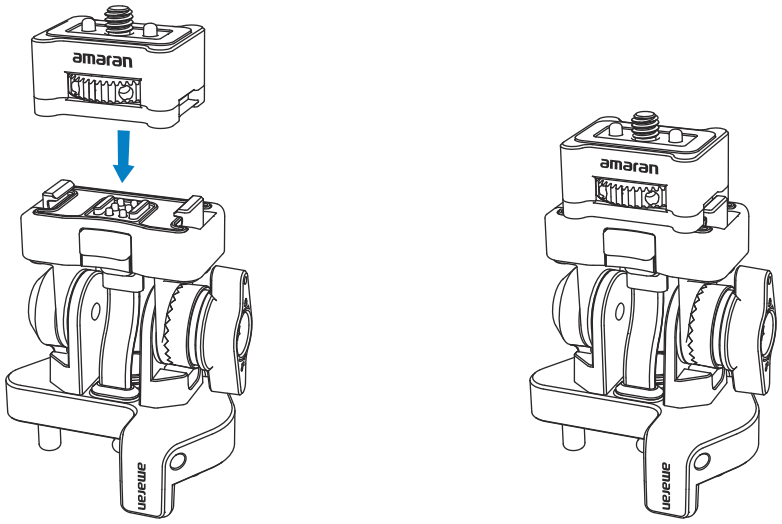
To disconnect, press the blue release button and simultaneously pull the fixture downward to detach.



2. *Connecting Other Lighting Fixtures via the amaran Ace E-Lock Adapter (1/4” & 3/8” Screw Compatible)(Sold Separately)

Align the amaran Ace E-Lock Adapter with the Ace E-Lock claw on the amaran Peak and the Ace E-Lock mount on the lighting fixture. Press straight down until you hear a “click,” indicating the adapter is securely locked in place. This adapter allows compatibility with lighting fixtures that have 1/4” or 3/8” screw holes and can be powered and controlled according to the fixture’s requirements.

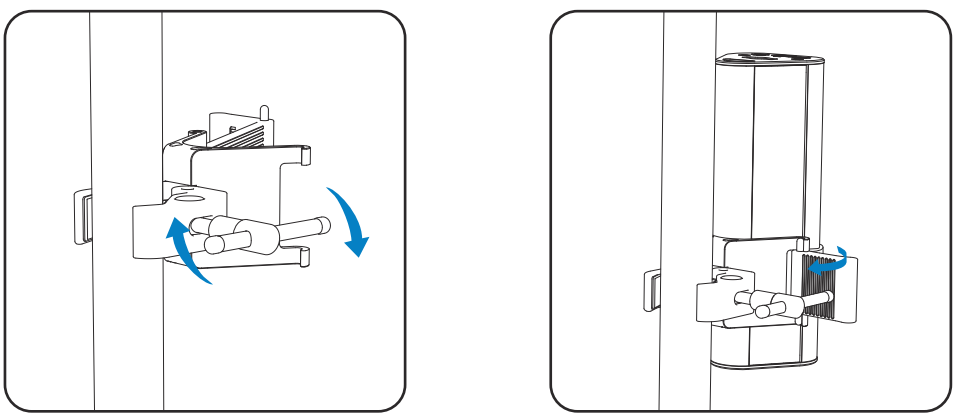
To detach, press the blue release button and pull the amaran Peak downward to separate.



3. *Install the amaran Peak Light Stand Clamp and Connect via USB-C Cable(Sold Separately)

Loosen the locking screw to open the clamp to a suitable size. Attach the clamp securely to the light stand and tighten the screw. Place the amaran Peak into the clamp and secure it with the silicone strap.

To detach: Pull the silicone strap in the opposite direction to release and remove the amaran Peak.



4. *Connect Non-USB-C Fixtures via the amaran USB-C to DC 20V Trigger Cable (300cm) (Sold Separately)

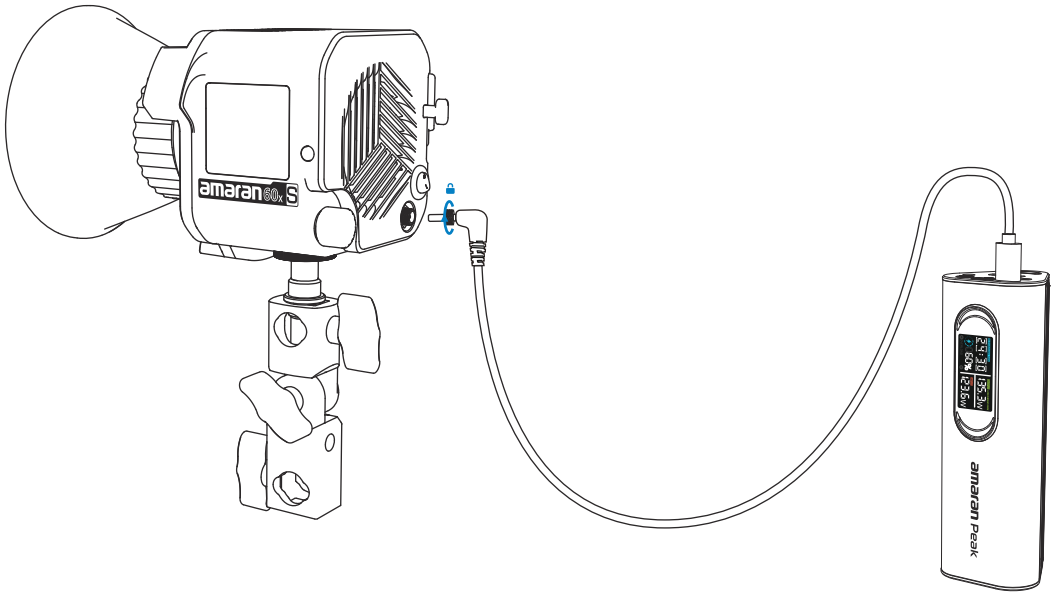
Cable Specifications:

- Maximum Output Power: 100W
- Maximum Output Voltage: 20V (dependent on the power source)
- Maximum Output Current: 5A
- Input Connector: USB-C
- Output Connector: 5525 Locking DC Connector (Outer Diameter: 5.5mm / Inner Diameter: 2.5mm)

Usage Instructions:

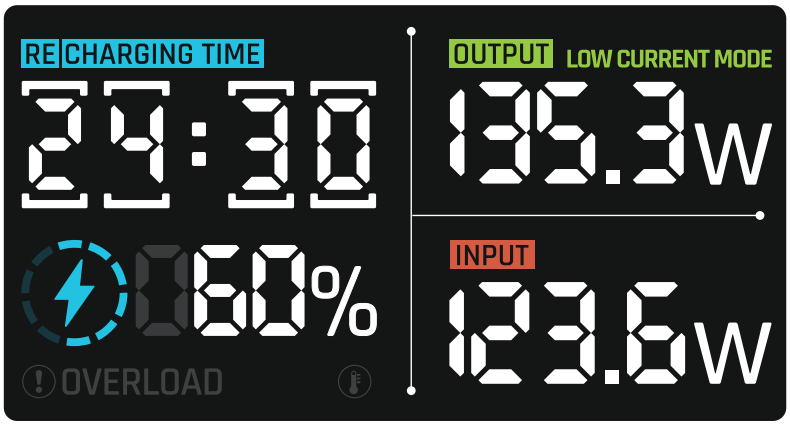
Insert the USB-C end of the trigger cable into the C1 or C2 port on the amaran Peak.

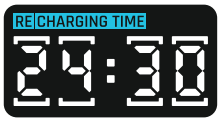
Insert the DC end into the DC power port of the target fixture and tighten the locking nut to secure the connection.



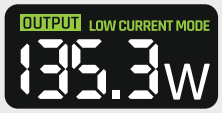
Notes:
**The actual output voltage depends on the connected power source. For example, if the power source outputs a maximum of 15V, the DC end will output 15V accordingly.*
**Before use, ensure that the target fixture supports the output voltage.*
If the fixture's maximum input voltage is lower than the output voltage of the trigger cable, it may cause damage.
**When the product is charging via USB-C (5V/9V/12V/15V⎓3A, 20V/28V⎓5A), it can simultaneously charge a device through the USB-A port (5V/9V⎓3A, 12V⎓2.5A).*

Display Logic



DISPLAY AREA	ITEM	FUNCTION
	01. RECHARGING TIME: Static text indicator 02. Charging/discharging time display	01. When charging, the static text indicator lights up 02. Displays remaining charging time 03. Displays remaining discharging time
	01. Lightning icon: Static display 02. Rim outline: 10-level battery indicator 03. Battery percentage: Dynamic display	01. During charging, the 10-level outline dynamically displays current battery level 02. Each bar represents 10%; the next bar will blink if the battery hasn't reached the next 10%
	01. Exclamation mark: Static icon / blinking 02. Thermometer: Static icon / blinking	01. When a system error occurs, the exclamation mark blinks 02. When the system temperature is too high, the thermometer icon

Continued Table:

DISPLAY AREA	ITEM	FUNCTION
	OUTPUT: Static icon / lights on or off only	01. When discharging, the OUTPUT icon lights up 02. Displays real-time total output power
	INPUT: Static icon / lights on or off only	01. When charging, the INPUT icon lights up 02. Displays real-time total input power
	Shared display between system errors and remaining time	01. When a system error occurs, the exclamation mark blinks 02. “RECHARGING TIME” text blinks to show the error code
	Temperature indicator for system overheating	01. Blinks once per second (slow blink): system temperature is high, power is limited (input/output restricted) 02. Blinks every 0.3 seconds (fast blink): system temperature is too high, input and output are shut

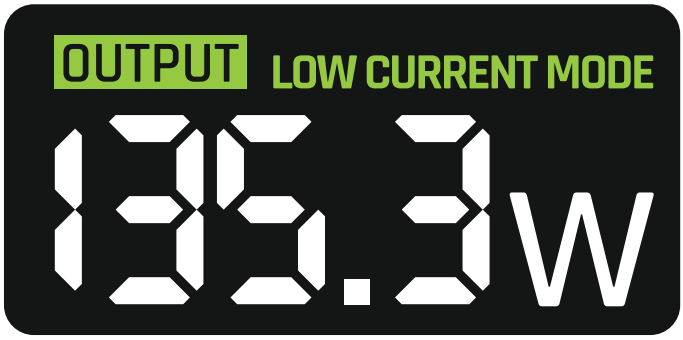
Button Operation Logic

Long press the button to power ON/OFF.

Double-press the button to activate Low Current Mode (the indicator will flash).*

Double-click again to exit Low Current Mode.

The Low Current Mode will automatically exit after 2 hours of standby.



**Note:*
Under normal conditions, when the output current drops below approximately 60mA ±30mA, the device shuts off automatically. This is not suitable for charging low-power devices like smartwatches or wireless earbuds.
After activating Low Current Mode, charging of such devices continues. The mode will exit either by double-clicking the button again or automatically after 2 hours without a load.

Specifications

Rated Input Voltage/Current:

USB-C1:5V⎓3A，9V⎓3A，12V⎓3A，15V⎓3A，20V⎓5A，28V⎓5A [140W Max]

USB-C2:5V⎓3A，9V⎓3A，12V⎓3A，15V⎓3A，20V⎓5A，28V⎓5A [140W Max]

Rated Output Voltage/Current:

USB-C1:5V⎓3A，9V⎓3A，12V⎓3A，15V⎓3A，20V⎓5A，28V⎓5A [140W Max]

USB-C2:5V⎓3A，9V⎓3A，12V⎓3A，15V⎓3A，20V⎓5A，28V⎓5A [140W Max]

USB-A:5V⎓3A，9V⎓3A，12V⎓2.5A [30W Max]

USB-C1+USB-C2:100W+65W

USB-C1+USB-A:140W+30W

USB-C2+USB-A: 140W+30W

USB-C1+USB-C2+USB-A: 65W+65W+18W

Total Output: 170W [Max]

Battery Capacity (Typical/Rated): 24000mAh/22800mAh 86.4Wh/82.08Wh

Rated Capacity: 13200mAh [5V⎓3A]

Conversion Efficiency: ≥78%

amaran Peak Main Unit Dimensions (without expansion module): 176 × 64 × 61 mm

amaran Ace E-Lock Expansion Module Dimensions: 69.2 × 61 × 50.2 mm

amaran Peak Main Unit Weight (without expansion module) ≈ 791g

amaran Ace E-Lock Expansion Module Weight ≈ 243g

Declaration of Toxic and Hazardous Substances in Electronic Information

Component	Declaration of Toxic and Hazardous Substances in Electronic Information					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr VI)	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
PCB	X	O	O	O	O	O
Plastic	O	O	O	O	O	O
Metal	X	O	O	O	O	O
Accessories	O	O	O	O	O	O

This table is prepared in accordance with the provisions of SJ/T 11364.

O: Indicates that the content of the toxic and hazardous substance in all homogeneous materials of the component is below the limit specified by GB/T 26572.

X: Indicates that the content of the toxic and hazardous substance exceeds the limit specified by GB/T 26572 in at least one homogeneous material of the component.

The information in this table is provided to suppliers in the form of data and testing results that comply with RoHS environmental requirements.

Important Safety Instructions

When using the amaran Peak, basic safety precautions should always be followed, including the following:

1. Please read and understand all safety instructions before using.
2. Do not place this product in high-temperature, humid, or direct sunlight environments. It is recommended to store it in a cool and dry place.
3. Operating temperature should be maintained between 0°C and 25°C (32°F to 77°F).
4. Do not disassemble this product yourself. If repair or service is needed, please contact authorized service personnel. Improper reassembly may result in malfunction, electric shock, or personal injury.
5. Do not immerse this product in water or other liquids. If liquid enters the device acciden taly, stop using it immediately and contact professional service.
6. Close supervision is necessary when this product is used by or near children. Do not leavethe fixture unattended while in use.
7. Do not use the device near flammable, explosive, or volatile solvents.
8. If any abnormal condition occurs (e.g., overheating, smoke, or strange odor), disconnect power immediately and stop using.
9. Please only use manufacturer-recommended or certified power adapters and USB-C cables.
10. If the device is unused for a long time, it is recommended to fully charge and discharge the battery every three months to maintain battery health.
11. It is normal for the product to heat up during use.
12. Battery performance will gradually degrade over a few years, which is a normal phenom enon.
13. Batteries may explode or leak flammable liquid or gas under extreme pressure changes or high temperatures.
14. Do not expose batteries to fire or extremely high temperatures.
15. Discharged batteries should be disposed of properly to avoid short circuits, fire, or smoke.
16. Do not continue using the device after it has been submerged in water.
17. Clean the device using a soft, dry cloth. Do not use solvents or chemical cleaners.

Important Safety Instructions

18. Always power off the device and ensure safety before installing or adjusting any accessories.
19. Using unauthorized accessories may cause device malfunction or personal injury.
20. Avoid drops, strong impacts, or excessive pressure during transport and use.
21. If repair is needed, please contact authorized service personnel. Damage caused by unauthorized disassembly is not covered by warranty. Users may choose paid repair service.
22. This user guide is based on the company's strict testing procedures. Further notice will not be given in the event of design or specification changes.

IC Regulatory Conformance

This device complies with CAN ICES-003 (B)/NMB-003(B) and CAN RSS-216 / CNR-216.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2)This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment.

Cet appareil est conforme à la norme CAN ICES-003 (B)/NMB-003 (B) et CAN RSS-216/ CNR-216.Cet appareil contient des émetteurs / récepteurs exempt (s) de licence qui sont conformes aux RSS exemptes de licence d'Innovation, Sciences et Développement économique Canada.

Son fonctionnement est soumis aux deux conditions suivantes:

(1) Cet appareil ne doit pas provoquer d'interférences.

(2)Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

Cet équipement est conforme aux limites d'exposition aux radiations de la IC définies pour un environnement non contrôlé.

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

WARNING

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications 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 to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Disclaimer

Before using this product, please read the product manual to ensure correct use under the complete understanding. After reading, please keep the product manual properly for future reference. In case of not operating this product correctly, it may seriously harm yourself or others, or result in product damage and property loss. When using this product, it shall be deemed that you have understood, recognized and accepted all clauses and contents of this document. The user commits to be responsible for their own behaviors and all consequences thereof, amaran shall not be liable for any loss due to the user who does not use this product in accordance with the product manual.

Under the laws and regulations, our company holds the final explanation right of this document and all related documents of this product. No prior notice will be given for any update, revision or termination. Please visit the official amaran website for the latest product information.