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ASTROLUX
USER MANUAL
EC06 LED Flashlight

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Specifications

Emitters: 6 x XHP50.2(3V)
Brightness: max 16000 lumens
Beam distance: max 566 meters
Firmware: Andúril2, distributed under the terms of the GPL v3. The source code is available from http://tiny.cc/TKAnduril
User interfaces:
　By default the EC06 is set to use the SMOOTH RAMPING mode. STEPPED RAMPING mode is available if you prefer discrete brightness steps.
　Electronic LOCKOUT mode keeps the EC06 from being turned on accidentally. LOCKOUT mode also provides a momentary low light when the button is pushed.
Other functions:
　Battery check, sunset, beacon, tactical strobe, party strobe, bike flasher, candlelight, & lightning storm. See the UI Diagram and the following sections for more details of the features and customizations.
Batteries:
　3 button-top 21700 batteries. Batteries are not included (except kit version)
　Charging: Integrated DC/DC buck charger via USB-C
　Driver: 5 x 7135 constant current integrated circuits. Low parasitic drain while EC06 is powered off.
Body: Aluminum with HA III anodizing
Switch: Electronic side switch
Ingress rating: Equivalent to IPX8
Weight: approx. 492g without batteries
Size: 63 mm Ø head x 133 mm length

Safety precautions

Use only reputable 21700 cells of known origin. Quality cells, button top type cells.
Connect the coming USBC charging cable and recharge the flashlight when the low voltage indication is given by the flashlight (repeated step-downs in light level and eventual shutdown of the light).
The extraordinary energy density that 21700 cells offers also means that hazardous conditions are created when a cell is short-circuited or damaged. Always treat cells with respect and properly dispose of damaged cells.
When running at higher output levels the head of the flashlight will heat. This is

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normal. In warmer ambient conditions this temperature may exceed 50℃ depending on your settings, so please take the necessary precautions when handling the flashlight.

Battery Replacement:

Unscrew the body, and insert battery with the anode side(+) towards the light's head/ LED, and then screw the tail cap back on.

Integrated Charger

The EC06 flashlight has a USB-C charging port. Please use a quality cable and USB power adapter with 5V / 3A to charge your EC06. While charging the EC06's switch glows BLUE. It changes to steady BLUE when charging is finished. EC06 can charges your devices such as cellphone via 5V / 3A (Type-C charger and C-C cable is NOT included). When the power left in EC06 is not enough, EC06 stops charging your devices.

Quick Start

After putting a battery in the light and tightening the parts together, the light should quickly blink once to confirm it has power and is now operational. After that, basic usage is simple:
Click to turn the light on or another click to turn it off.
- Hold the button to change brightness.
- Release and hold again to change brightness the other way.

That is all the user needs to know for basic use, but there are many more modes and features available for people who want more.

Before reading the rest of this manual, it is recommended that users look at the Andúril UI diagram(s), which should be provided along with the flashlight.

Button presses

Button presses are abbreviated using a simple notation:
- 1C: One click. Press and then quickly release the button.
- 1H: Hold. Press the button, but keep holding it.
- 2C: Two clicks. Press and release quickly, twice.
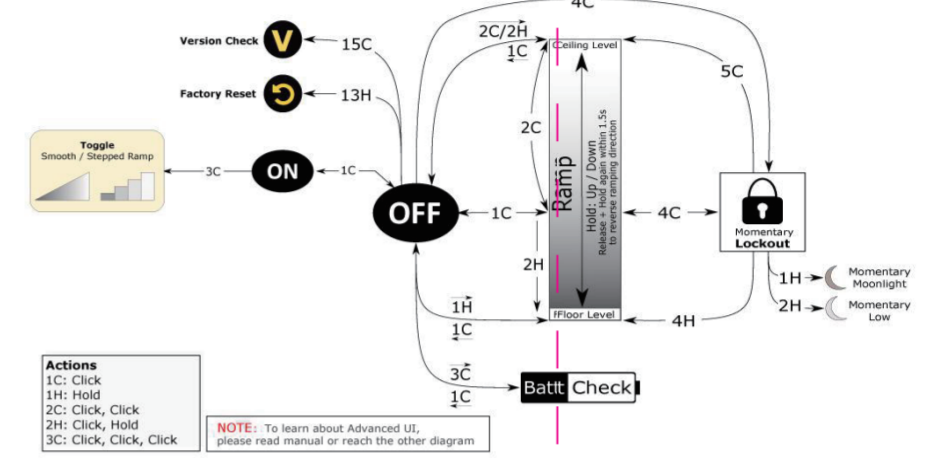- 2H: Click, hold. Click two times, but hold the second press.

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- 3C: Three clicks. Press and release quickly, three times.
- 3H: Click, click, hold. Click three times, but hold the final press.
The same pattern is used with higher numbers too. For example, 10C means ten clicks... and 10H means ten clicks but hold the final press.

Simple UI

By default, the light uses a simple UI. This is useful if you lend the light to someone else, or if you just don't want to bother with any crazy disco modes.
Simple UI has all the basic functions needed to work as a flashlight, but the minimum and maximum brightness are limited to make it safer, and any complex or advanced functions are blocked.

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Version Check Ⓥ — 15C
Factory Reset ↺ — 13H

Toggle
Smooth / Stepped Ramp

ON — 1C — OFF

Actions
1C: Click
1H: Hold
2C: Click, Click
2H: Click, Hold
3C: Click, Click, Click

NOTE: To learn about Advanced UI, please read manual or reach the other diagram

Simple UI

Functions available in Simple UI include:
- 1C: On / off
- 1H: Ramp up (or down, if button was released less than a second ago)
- 2H: If light is on : ramp down
　If light is off: momentary high mode
- 2C: Double click to go to / from highest safe level
- 3C: Toggle between SMOOTH RAMPING and STEPPED RAMPING (while light is on)
- 4C: Lockout mode.

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Some other modes and functions are available too. When the light is off, these are the options:
- 3C: Battery check mode. (displays voltage once, then turns off)
- 4C: Lockout mode.
- 10H: Switch to Advanced UI.
- 15C or more: Version check.

In Lockout mode with Simple UI, there are a few functions:
- 1H: Momentary moon
- 2H: Momentary low
- 4C: Unlock and turn on
- 4H: Unlock and turn on at low level
- 5C: Unlock and turn on at high level

To **change between Simple UI and Advanced UI**, turn the light off and then do one of these:
In Simple UI:
　- 10H: Go to Advanced UI.
In Advanced UI:
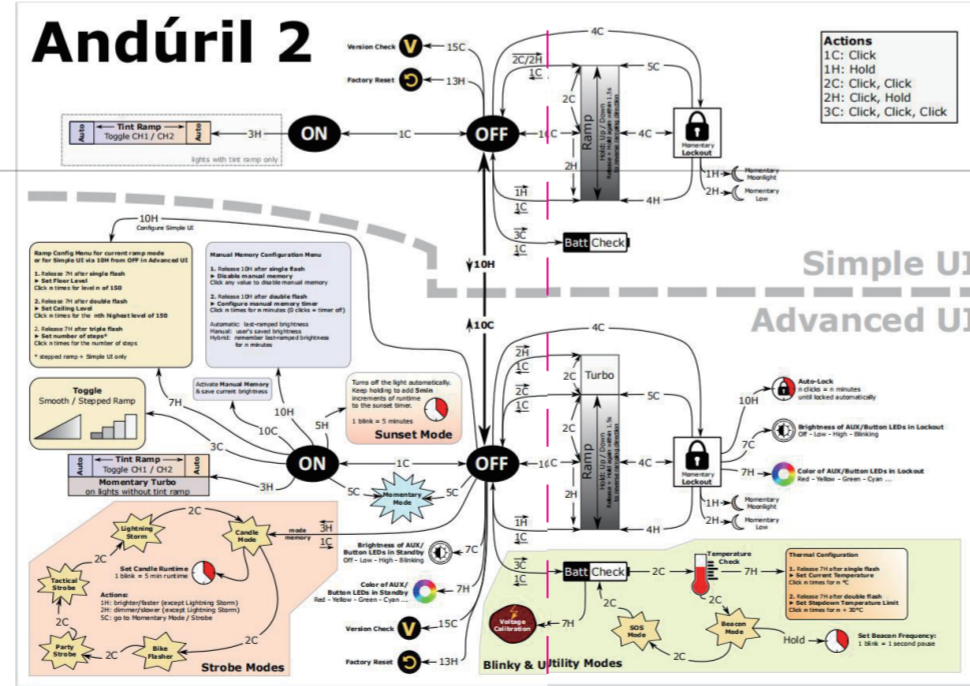　- 10C: Go to Simple UI.
　- 10H: Configure Simple UI.

If you get lost, or if you want to auto-calibrate the temperature sensor, do a **Factory Reset**. The process for this is:
- Loosen body tube
- Hold button
- Tighten body tube
- Keep holding button for about 4s

The light should flicker while getting brighter, then briefly burst to full power. Hold until it reaches full power to do a reset, or let go of the button early to abort.

Advanced UI

Advanced UI has all the advanced functions which are fun to play with but also hard to learn. Please refer the UI diagram for better understanding. **UI diagram is too big to put in manual, please contact us for pdf file.**

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Simple UI
Advanced UI

Actions
1C: Click
1H: Hold
2C: Click, Click
2H: Click, Hold
3C: Click, Click, Click

FAQ

-why the item won't work without plug?
Solution: unscrew the body and remove the round insulating paper, screw back and try click again.
-why the item flashes improperly?
Solution: screw the tube, clean the contacts with clean cloth with alcohol. Screw back tightly again.

Usage and Maintenance:

※ Disassembling the sealed head can cause damage to the light and void the warranty.
※ Astrolux recommends using high-quality batteries. If the flashlight will not be used for an extended period, please remove the battery, or the flashlight might be damaged by the electrolyte leakage or battery explosion.
※ Please unscrew the tail cap one-half turn or take out the battery to prevent accidental activation during storage or transportation.
※ please use cleaning cloth to clean the thread every 6 months, and it will be better to use silicone grease to oil thread.
※ Long-term usage can result in O-ring wear. To maintain a proper water seal, replace the ring with an approved spare.

※ Periodic cleaning of the battery contacts improves the flashlight's performance as dirty contacts may cause the flashlight to flicker, shine intermittently or even fail to illuminate for the following reasons:
Reason A: The battery needs replacement.
Solution: please replace battery. Please confirm the correct installation
Reason B: The threads, PCB board contact or other contacts are dirty.
Solutions: please clean the contact points with a cotton swab soaked in rubbing alcohol

After Sales Policy

1.Unconditional return in 15 days as for product problems
2.12 months warranty
3.Lifelong paid warranty
4.If you have any problem, please feel free to contact support@astroluxlite.com for help. Thank you.

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