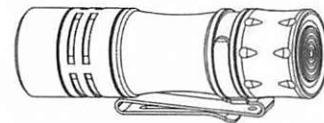
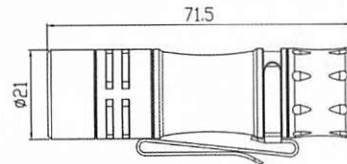


# Wurkkos TS10 user manual

使用说明书



Thank you for purchasing Wurkkos products.

Contact us if you need assistance.

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The TS10 is a powerful Mini EDC flashlight. It uses 3 pieces main LEDs and 3 pieces single color Aux LEDs to provide, with Anduril 2.0 and powered by one 14500 battery. It will be your reliable partner for every day use and with fun.

## ANSI/NEMA FL1 Chart

Modes	(Advance UI)								
	H8 (1400lm)	H7 (900lm)	H6 (580lm)	H5 (300lm)	H4 (130lm)	H3 (50lm)	H2 (10lm)	H1 (1lm)	
Runtime	1h14min	1.5h	1.5h	1.5h	2h43min	6h43min			
Beam distance(m)	130	100	80	55	40	25	12	4.5	
Intensity (cd)	4150	2525	1675	800	400	160	45	5	
Impact Resistance	1 meter/3.28 feet								
Water Resistance	IPX8								
Note	The above mentioned parameters are based on tests according to International flashlight testing standards (ANSI/NEMA FL1) in our laboratory. Results may vary with different batteries or under different environmental conditions.								

## Specifications

Emitter: 3 pieces 90 CRI CSP LEDs and 3 pieces single color aux LEDs  
Battery options: 1x 14500 Li-Ion battery  
Operating voltage: 3.0V - 4.2V (14500 battery)  
Dimension: 71.5 mm (length) x 21mm (head diameter)  
Weight: 32 ± 1 grams (without battery)  
Anduril2 User Interface  
flashlight body: Aerospace grade 6061 grade aluminum alloy, CNC manufactured to hard-anodized to military grade specification type III, anti-abrasive finish to get solid built body, anti-crash geometry and better heat exchange.  
Automatic Stepdown: Turbo mode steps down to High mode automatically to prevent overheating.  
Electronic reverse polarity protection from improper battery installation  
Advanced Temperature Regulation (ATR) technology: As the temperature rises, TS10 is programmed to automatically step down and step up the brightness to prevent overheating.

## Battery Specification

Battery Type	Dimension & Quantity	Nominal Voltage	Compatibility
Rechargeable Lithium-ion battery	14500 x 1	3.7 V	Yes
Rechargeable NiMH battery	AA x 1	1.2 V	NO
Disposable alkaline battery	AA x 1	1.5 V	NO

## Operation Instructions

**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.

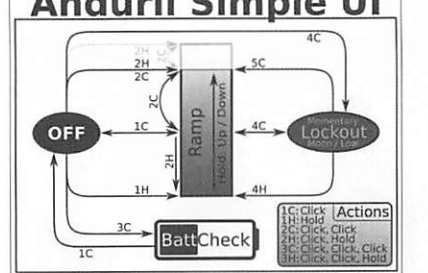
Before reading the rest of this manual, it is recommended that users look at the Anduril UI diagram(s), which should be provided along with the flashlight.

**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.  
- 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 Diagram

Not everything is covered in the diagram, please read the text.



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.

## 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
- 4C: Lockout mode.

## 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:

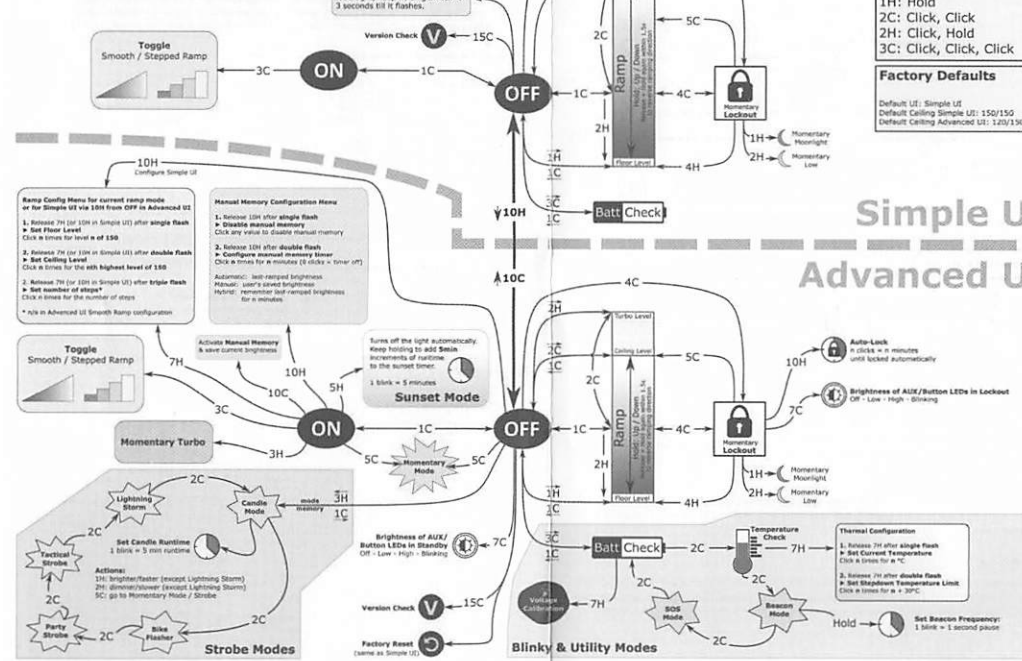
- Loosen body tube
- Hold button
- Tighten body tube
- Keep holding button for about 4s

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 below. Please ask us for pdf file so you can read easily. We can also send video link to show how to play with Anduril2

# Anduril 2



## Safety Instructions

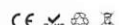
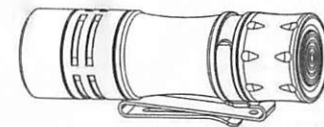
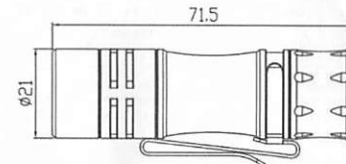
- ❖ Operating the flashlight for a long time in Turbo or High mode will warm it up. This is normal.
- ❖ When installing the battery, make sure the anode (+) side always faces towards the head/LEDs.
- ❖ Unscrew the tailcap half a turn to avoid unwanted activation during transport. It also prevents the battery from draining while the flashlight is in standby.
- ❖ Avoid hitting or dropping the flashlight.

## Troubleshooting and Maintenance

- ❖ Disassembling the sealed head can damage the flashlight and voids the warranty.
- ❖ Wurkkos Ltd. recommends using high-quality brand batteries. Damage by battery leakage voids the warranty.
- ❖ Remove the battery if the flashlight will not be used for an extended period of time.
- ❖ To prevent self-discharge or accidental activation during storage or transportation, unscrew the tailcap by half a turn or remove the battery.
- ❖ Every 6 months threads should be wiped with a clean cloth followed by a thin layer of silicone grease.
- ❖ To maintain a proper level of waterproofness, replace worn-out o-rings with an approved spare.
- ❖ Troubleshooting: Clean battery contacts regularly as dirty contacts may impair the performance of the flashlight. If you experience problems (flicker, shine intermittently or failure turn on) the following root causes and solutions should be tried:  
Reason A: The battery needs a replacement.  
Solution: Replace the battery with an approved type of a fully charged battery.  
Reason B: Threads, PCB board contact or other contacts are dirty.  
Solution: Please clean the contact points with a cotton swab soaked in rubbing alcohol.  
Reason C: The flashlight will not turn on upon first use.  
Solution: Please do not forget to remove the insulation sticker from the battery on first use.

If the above methods do not work please refer to the warranty policy before contacting your authorized distributor.

# Wurkkos TS10 Bedienungsanleitung



Vielen Dank für den Kauf dieses Produkts von Wurkkos.

Bitte kontaktieren Sie uns, falls Sie Hilfe benötigen.

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Tel: +86-13728792565  
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Die TS10 ist eine leistungsstarke, kleine EDC Taschenlampe. Sie besitzt drei Haupt- und drei einfarbige Aux-LEDs, verwendet Anduril 2 und wird mit einem 14500 Li-Ion-Akku betrieben. Sie ist ein zuverlässiger Partner für den täglichen Einsatz und sorgt für viel Freude.