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› [Wurkkos](#) /

› Wurkkos TS23 Tactical Flashlight User Manual

## Wurkkos TS23

# Wurkkos TS23 Tactical Flashlight User Manual

Model: TS23-5000 Lumens

## 1. INTRODUCTION

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The Wurkkos TS23 is a high-performance tactical flashlight designed for versatility and durability. Equipped with a powerful 70.3 HI LED, it delivers an impressive 5000 lumens and a beam distance of up to 482 meters, providing exceptional brightness and clarity for various applications including emergency, repair, camping, and hiking.

Its robust construction from aerospace-grade 6061 aluminum alloy ensures resilience, while the IP68 waterproof rating allows for submersion in up to 2 meters of water for 30 minutes. The innovative electro-thermal separation design efficiently dissipates heat, ensuring stable performance. With multiple adaptable light modes and a convenient Type-C rechargeable battery, the TS23 is a reliable companion for any adventure.



Figure 1.1: Wurkkos TS23 Tactical Flashlight showcasing its powerful beam.



Figure 1.2: The TS23 is suitable for a wide range of activities.

## 2. WHAT'S INCLUDED

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Upon unboxing your Wurkkos TS23 Tactical Flashlight, please ensure all the following components are present:

- 1 x Wurkkos TS23 Flashlight (6000K)
- 1 x USB Type-C Cable
- 1 x Sturdy Lanyard
- 2 x Waterproof O-rings (spare)
- 1 x Rechargeable Battery
- 1 x User Manual (this document)



Figure 2.1: All items included in the Wurkkos TS23 package.

## 3. SPECIFICATIONS

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<b>Feature</b>	<b>Description</b>
Model	TS23
Light Source	70.3 HI LED
Max Lumens	5000 Lumens
Max Beam Distance	482 Meters (1581.36 ft)
Color Temperature	6000-6500K
Power Source	1 x 21700 Lithium Ion Rechargeable Battery
Charging Interface	USB Type-C
Material	Aerospace-grade 6061 Aluminum Alloy
Water Resistance	IP68 (2 meters submersible for 30 minutes)
Impact Resistance	1 meter / 3.28 feet
Dimensions	1"D x 1"W x 1"H (approximate)
Weight	0.5 Pounds (approximate)
Special Features	Attack Head Design, Electro-Thermal Separation, 9 Light Modes (Moon/Eco/Low/Medium/High/Brightest/ Strobe / SOS/Beacon), Memory Function

# Wurkkos TS23

## ANSI/NEMA FL1 Chart

Mode	Moon	Eco	Low	Medium	High	Turbo	Strobe
Luminous Flux	10Lm	50Lm	300Lm	800Lm	1800Lm	5000Lm	5000Lm
Runtime	300h	45h	11.5h	6.5h	3.75h	2.5h	-
Distance	22m	46m	113m	185m	290m	482m	-
Intensity	120cd	539cd	3217cd	8583cd	21008cd	58083cd	-
Impact resistance	1 meter / 3.28 feet						
Waterproof	IP68						



Figure 3.1: Detailed performance specifications according to ANSI/NEMA FL1 standards.



**High Quality LED >>>>**  
**High Lumens 70.3 HI LED**

High-intensity led has a plane lens, which can better couple the lens, mirror and optical fiber to control the light output and chromaticity,color temperature up to: 6000-6500K!

Figure 3.2: The high-intensity 70.3 HI LED provides superior light output.

## 4. SETUP

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### 4.1 Battery Installation

The Wurkkos TS23 comes with a rechargeable 21700 Lithium Ion battery. Before first use, or after replacing the battery, ensure it is correctly installed.

1. Unscrew the tail cap of the flashlight by turning it counter-clockwise.
2. Remove any protective cardboard disc that may be present inside the battery compartment. This disc prevents accidental activation during shipping.
3. Insert the 21700 battery with the positive (+) end facing towards the head of the flashlight.
4. Screw the tail cap back on clockwise until it is securely tightened.

### 4.2 Charging

The TS23 features a convenient Type-C charging port. Use the provided USB Type-C cable to charge the flashlight.

1. Locate the Type-C charging port on the flashlight body, typically covered by a rubber flap.
2. Open the rubber flap and insert the USB Type-C cable.
3. Connect the other end of the cable to a compatible USB power source (e.g., wall adapter, power bank, computer USB port).
4. The indicator light will show charging status: Red light constant on when charging, Green light constant on when fully charged. If the power is less than 25%, the indicator will flash red.



Figure 4.1: Charging the TS23 via its USB Type-C port.



Figure 4.2: Understanding the battery indicator light.

## 5. OPERATING INSTRUCTIONS

### 5.1 Basic Operation

The Wurkkos TS23 features a tactical tail button for easy control.

- **Turn On/Off:** Press the tail button once to turn the flashlight on or off.
- **Cycle Modes:** While the flashlight is on, press and hold the tail button to cycle through the standard brightness modes: Moon → Eco → Low → Medium → High → Brightest. Release the button to select the desired mode. The flashlight has a memory function and will turn on in the last used standard mode.

### 5.2 Special Modes

The TS23 offers several special modes for specific situations:

- **Strobe:** From OFF, press and hold the tail button for approximately 1 second to activate Strobe mode.
- **SOS:** From Strobe mode, press and hold the tail button to cycle to SOS mode.
- **Beacon:** From SOS mode, press and hold the tail button to cycle to Beacon mode.



Figure 5.1: Simple and intuitive operation via the tactical tail button.

# TACTICAL FLASHLIGHT HIGH BRIGHTNESS OUTPUT SWEEPING AWAY THE DARKNESS



Max Output

**5000**  
Lumens



Max length

**482**  
Meters

**6000-6500K**  
Color temperature



Moon  
(10lm)



Eco  
(50lm)



Low  
(300lm)



Medium  
(800lm)



High  
(1800lm)



Turbo  
(5000lm)



Strobe  
(5000lm)



SOS  
(5000lm)



Beacon  
(5000lm)

Figure 5.2: The TS23 offers 9 versatile light modes for different needs.

## 5.3 Attack Head Design

The Wurkkos TS23 features four tungsten steel beads on its head, designed for emergency self-defense or breaking glass in critical situations. This makes it a valuable tactical tool.

# RELIABLE EQUIPMENT FOR DEFENSE AND ESCAPE

Four Tungsten Steel beads to increase the impact force, so that you can escape more quickly when in danger.



Figure 5.3: The attack head design provides an additional layer of utility.

## 5.4 Electro-Thermal Separation Design

Unlike traditional flashlights, the TS23's USB port is separated from the lamp bead. This design allows for thermo-electrically separated copper substrate to quickly export heat generated by the LED lamp bead, ensuring efficient heat dissipation and prolonged LED lifespan.



Figure 5.4: The advanced thermal design enhances performance and durability.

## 6. MAINTENANCE

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Proper maintenance ensures the longevity and optimal performance of your Wurkkos TS23 flashlight.

- **Cleaning:** Clean the flashlight body with a soft, damp cloth. For the lens, use a lens cleaning cloth to avoid scratches.
- **O-rings:** Regularly inspect the O-rings for any signs of wear or damage. Replace them if necessary to maintain the IP68 waterproof rating. A thin layer of silicone grease can be applied to the O-rings to keep them supple.
- **Threads:** Keep the threads of the tail cap clean and lightly lubricated to ensure smooth operation and proper sealing.
- **Battery Care:** Store the battery in a cool, dry place when not in use. If storing for extended periods, charge the battery to about 50% capacity.

# IP68 WATERPROOF FLASHLIGHT

The exterior adopts aviation grade and anodic oxidation process, and the interior has a waterproof ring (O-Ring) to protect your flashlight in all directions.



Figure 6.1: The IP68 rating ensures protection against water and dust.

## 7. TROUBLESHOOTING

If you encounter issues with your Wurkkos TS23, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Flashlight does not turn on	Battery not installed correctly Battery is depleted Protective disc still present Loose tail cap	Ensure battery is inserted with correct polarity (+ end towards head) Charge the battery fully Remove the cardboard disc from the battery compartment Tighten the tail cap securely

Light is dim or flickers	Low battery Dirty contacts Loose components	Recharge the battery Clean battery contacts and flashlight contact points Ensure tail cap and head are tightened
Charging indicator not working	Cable not connected properly Faulty cable or power source	Ensure USB-C cable is fully inserted Try a different USB-C cable or power source
Flashlight gets hot quickly	Operating on Turbo/Brightest mode for extended periods Poor heat dissipation	This is normal for high lumen output. Reduce brightness mode if uncomfortable. The electro-thermal separation design helps manage heat.

If the problem persists after trying these solutions, please contact Wurkkos customer service for further assistance.

## 8. WARRANTY AND SUPPORT

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Wurkkos is committed to providing high-quality products and excellent customer service. We take our customers' shopping experience seriously.

For any inquiries, issues, or support needs regarding your Wurkkos TS23 Tactical Flashlight, whether before or after your purchase, please do not hesitate to contact our shop service team. We are dedicated to solving your problems fundamentally and will respond within 24 hours.

Please refer to your purchase documentation or the official Wurkkos website for specific warranty terms and conditions.