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## Wurkkos HD15

# Wurkkos HD15 Headlamp User Manual

Model: HD15

## 1. PRODUCT OVERVIEW

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The Wurkkos HD15 is a versatile LED headlamp designed for various applications, offering both spotlight and floodlight illumination. It features a rechargeable battery, magnetic tailcap, and IP68 waterproof rating, making it suitable for demanding environments.



Image: Wurkkos HD15 Headlamp with its accompanying headband.

### Key Features:

- **Dual LED System:** LH351D (floodlight, 90CRI) and SST20 (spotlight) for versatile lighting.
- **High Brightness:** Up to 2000 lumens in Turbo mode.
- **Rechargeable:** Integrated USB-C charging port.
- **Power Bank Function:** Can charge other devices via reverse charging.
- **Durable Construction:** Aircraft-grade aluminum alloy with IP68 waterproof rating (up to 2 meters underwater).
- **Magnetic Tailcap:** Allows attachment to metal surfaces for hands-free use.
- **Adjustable Angle:** Headlamp can be adjusted up to 180 degrees.

## 2. PACKAGE CONTENTS

Verify that all items are present in the package:

- Wurkkos HD15 Headlamp
- USB-C Charging Cable

- Headband
- Clip
- Short Tube (for 18350 battery, battery not included)
- 1 x 21700 Lithium Ion Battery (included)
- 2 x Spare O-rings

### 3. SETUP AND INITIAL USE

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#### 3.1 Battery Installation

1. Unscrew the tailcap of the headlamp.
2. **Important:** Before first use, remove the insulating paper disc from the positive end of the battery.
3. Insert the included 21700 battery with the positive (+) end facing towards the head of the lamp.
4. Screw the tailcap back on securely.



Image: Illustration showing the removal of the battery insulation paper before first use.

#### 3.2 Securing Components

Ensure all parts of the headlamp are tightly screwed together to maintain water resistance and proper electrical contact.



Image: Arrows indicating to tighten both the head and tailcap sections of the headlamp.

#### 3.3 Attaching Headband and Clip

- Slide the headlamp into the silicone mounts on the headband for hands-free operation.
- Attach the included two-way clip to the body of the headlamp for carrying on a belt, pocket, or backpack strap.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Basic Operation

- **Turn On/Off:** Single click the power button to turn the light on or off.
- **Change Brightness:** When the light is on, press and hold the power button to cycle through Low, Medium, and High modes. Release the button at the desired brightness.
- **Turbo Mode:** Double-click the power button from any state (on or off) to activate Turbo mode. Double-click again to return to the previous mode.
- **Moonlight Mode:** From off, press and hold the power button for 1 second to activate Moonlight mode.

### 4.2 Switching Between Spotlight and Floodlight

- **Spotlight Only:** Triple-click the power button from any state to activate the spotlight.
- **Floodlight Only:** Triple-click the power button again to switch to the floodlight.
- **Spotlight + Floodlight:** Triple-click the power button a third time to activate both emitters.
- **Return to Previous Mode:** Triple-click again to cycle back through the options or single click to turn off.



Image: Visual representation of spotlight and floodlight beam patterns at various brightness levels (Turbo, High, Med, Low).

### 4.3 Special Modes (Strobe, SOS, Beacon)

- **Activate Special Modes:** Quadruple-click the power button from any state to enter Strobe mode.
- **Cycle Special Modes:** While in Strobe, double-click to cycle through SOS and Beacon modes.
- **Exit Special Modes:** Single click to turn off, or press and hold to return to the last used general mode.

### 4.4 Charging the Headlamp

The HD15 features a built-in USB-C charging port. Use the provided USB-C cable to connect the headlamp to a power source (e.g., USB wall adapter, computer, power bank).

- **Charging Indicator:** The indicator light on the headlamp will flash red during charging.
- **Full Charge:** The indicator light will turn green when charging is complete.
- Allow approximately 3 seconds for the red light to activate after connecting the charging cable.



Image: Depicts the headlamp's indicator light showing red for 'Charging' and green for 'Full Charge'.

#### 4.5 Power Bank Function (Reverse Charging)

The HD15 can act as a power bank to charge other USB-C compatible devices. Connect your device to the headlamp's USB-C port using a suitable cable.



Image: Diagram illustrating the headlamp charging a smartphone via its USB-C port, demonstrating the reverse charging capability.

#### 4.6 Angle Adjustment

When mounted on the headband, the headlamp can be manually tilted up to 180 degrees to direct the light precisely where needed.

## Spotlight and Floodlight



Image: The headlamp mounted on a headband, with arrows indicating its ability to adjust the illumination angle up to 180 degrees.

## 5. MAINTENANCE

### 5.1 General Care

- Clean the headlamp with a soft, damp cloth. Avoid abrasive cleaners.
- Regularly inspect O-rings for wear and tear. Replace with spare O-rings if necessary to maintain water resistance.
- Keep the threads clean and lubricated with silicone grease to ensure smooth operation and water sealing.
- Avoid dropping the headlamp from heights exceeding 1 meter to prevent damage.

### 5.2 Battery Care

- Recharge the battery regularly, even if not in frequent use, to prolong its lifespan.
- Store the headlamp and battery in a cool, dry place away from direct sunlight and extreme temperatures.
- If storing for extended periods, remove the battery from the headlamp.

## 5.3 Water Resistance

The HD15 is rated IP68 waterproof, meaning it can be submerged up to 2 meters underwater. Ensure all parts are tightly sealed before exposing to water.



Image: The Wurkkos HD15 headlamp partially submerged in flowing water, demonstrating its IP68 waterproof capability.

## 6. TROUBLESHOOTING

### 6.1 Light Does Not Turn On

- Check if the battery insulation paper has been removed.
- Ensure the battery is inserted with the correct polarity (+/-).
- Verify that the headcap and tailcap are fully tightened. Loose connections can prevent operation.
- Charge the battery. The battery might be depleted.
- Try a different, fully charged battery if available.

### 6.2 Light Does Not Charge

- Ensure the USB-C cable is securely connected to both the headlamp and the power source.
- Verify the power source is active and providing power.
- Check the charging indicator light. If it does not turn red after 3 seconds, try a different cable or power source.
- Clean the USB-C port on the headlamp for any debris.

### 6.3 Headlamp Overheats

In high brightness modes (especially Turbo), the headlamp may become warm. This is normal. If it becomes excessively hot, the built-in Advanced Temperature Regulation (ATR) technology will automatically reduce the brightness to prevent damage. Allow the headlamp to cool down before resuming high-power use.

## 7. SPECIFICATIONS



**Wurkkos HD15**

### ANSI/NEMA FL1 Chart

Mode	Moonlight	Low	Medium	High	Turbo	Strobe / SOS / Beacon
<b>Luminous Flux [lm]</b>						
Spotlight	1	10	120	400	1000	1.000/120/1.000
Floodlight	1	10	120	400	1000	1.000/120/1.000
Spot + Flood	2	20	240	800	2000	2.000/240/2.000
<b>Beam Distance [m]</b>						
Spotlight	—	14	53	88	148	
Floodlight	—	8	25	35	75	
Spot + Flood	—	16	54	97	151	
<b>Runtime</b>						
Spotlight	333h	111h	13h30min	4h	3h30min	7h/10h30min/15h45min
Floodlight	333h	93h	13h	3h30min	2h45min	5h30min/8h15min/12h22min
Spot + Flood	230h	58h	7h 20min	2h 8min	1h 45min	3h30min/5h15min/7h52min
Impact Resistance	1m / 3.28 ft.					
Water Resistance	IP-68 (up to 2m / 6.56 ft. under water)					
Charging Specification	USB-C port, 5V 2A max					

Image: Detailed ANSI/NEMA FL1 chart showing luminous flux, beam distance, and runtime for various modes (Spotlight, Floodlight, Spot+Flood).

Feature	Detail
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Feature	Detail
Model	HD15
Light Source	LH351D (Floodlight, 90CRI), SST20 (Spotlight)
Max Luminous Flux	2000 Lumens (Spot+Flood Turbo)
Max Beam Distance	151 meters (Spot+Flood Turbo)
Runtime	Up to 230 hours (Spotlight Moonlight)
Battery	1 x 21700 Lithium Ion (included), 5000mAh
Charging	USB-C, 5V 2A max
Water Resistance	IP68 (up to 2 meters underwater)
Impact Resistance	1 meter / 3.28 feet
Material	Aircraft-grade Aluminum Alloy
Dimensions	0.9"D x 4.4"W x 1.1"H (22.8mm D x 111.7mm W x 27.9mm H)
Weight	4.8 Ounces (approx. 136g without battery)
Color Temperature	5000 Kelvin
Color Rendering Index (CRI)	90.00 (LH351D)

## 8. WARRANTY AND SUPPORT

### 8.1 Warranty Information

All Wurkkos products come with a **12-month free unlimited warranty** from the date of purchase. This warranty covers manufacturing defects and issues arising from normal use.

### 8.2 Customer Support

For any questions, concerns, or warranty claims, please contact Wurkkos customer service. They offer 24/7 online service to assist you.

Visit the official Wurkkos store for more information: [Wurkkos Store](#)