

Wurkkos HD12

Wurkkos HD12 LED Headlamp User Manual

Model: HD12

1. INTRODUCTION

Thank you for purchasing the Wurkkos HD12 LED Headlamp. This compact and versatile lighting device is designed for various outdoor activities, emergency situations, and daily use. It features dual white and red light sources, multiple brightness levels, USB-C recharging, and a durable, waterproof design. Please read this manual carefully before use to ensure proper operation and maintenance.

2. SAFETY INSTRUCTIONS

- Do not shine the light directly into eyes. The powerful beam can cause temporary vision impairment.
- Keep out of reach of children.
- Ensure the battery cap is securely tightened before exposing the headlamp to water to maintain its IP68 waterproof rating.
- Use only recommended batteries and charging cables. Incorrect usage may damage the device or pose a safety risk.
- Avoid disassembling the headlamp, as this may void the warranty and cause damage.
- The headlamp can become warm during prolonged use at high brightness levels. This is normal.

3. PACKAGE CONTENTS

Please check the package for the following items:

- Wurkkos HD12 LED Headlamp
- Rechargeable Lithium-Ion Battery (14500, pre-installed)
- USB-C Charging Cable
- Adjustable Headband
- Pocket Clip
- Spare O-rings (2 pcs)
- User Manual (this document)

4. PRODUCT OVERVIEW

The Wurkkos HD12 is a versatile headlamp and mini flashlight, engineered for durability and performance. Its compact design (approx. 8cm length, 2cm width, 3cm height) and lightweight construction (approx. 80g without battery) make it ideal for extended wear without discomfort.

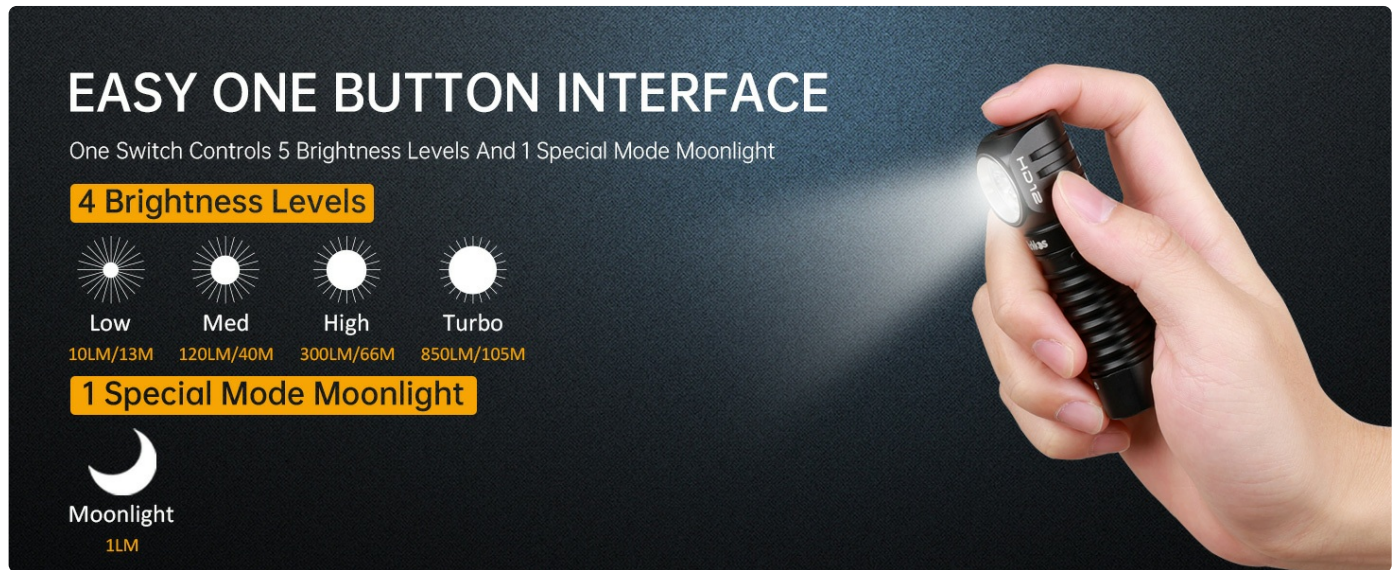


Image: Overview of Wurkkos HD12 features including compact size, 850 lumens output, 30-hour runtime, USB-C charging, IP68 waterproof rating, red and white light modes, and 105-meter throw distance.

Key Features:

- **Dual Light Source:** Features both white and red LEDs for various lighting needs.
- **High Brightness:** Up to 850 lumens output for powerful illumination.
- **Multiple Modes:** Offers 5 white light brightness levels (Moonlight, Low, Medium, High, Turbo) and red light modes (Low, Medium, High, Blinking).
- **USB-C Rechargeable:** Convenient and fast charging via USB-C port. Also compatible with AA batteries (with reduced output).
- **Durable Construction:** Made from aerospace-grade aluminum alloy with an IP68 dustproof and waterproof rating (submersible up to 2 meters).
- **Magnetic Tail Cap:** Allows for hands-free attachment to metal surfaces.
- **Adjustable Headband:** Breathable mesh headband for comfortable and secure fit, with one-touch adjustment.
- **90° Angle Adjustment:** The light head can be adjusted to direct the beam where needed.



Image: The Wurkkos HD12 headlamp shown held in a hand, illustrating its compact and portable size.

5. SETUP

5.1 Battery Installation

1. Unscrew the tail cap of the headlamp.
2. If a plastic insulator disc is present on the negative terminal of the battery, remove it.
3. Insert the 14500 Lithium-Ion battery with the positive (+) end facing towards the head of the light.
4. Screw the tail cap back on tightly to ensure proper contact and waterproof sealing.
5. Alternatively, you can use a standard AA battery, but note that performance (lumens and runtime) will be reduced.

5.2 Attaching the Headband

1. Slide the headlamp body into the rubber mount on the headband. Ensure it is securely seated.
2. Adjust the headband straps to fit comfortably and securely around your head. The breathable mesh design helps

prevent sweat buildup.



Image: Illustration of the HD12 headlamp with its body clip for convenient wear and how it fits into the ergonomically designed headlamp bracket.

6. OPERATING INSTRUCTIONS

The HD12 features a single side switch for all operations.



Image: The HD12's easy one-button interface, illustrating the different brightness levels and Moonlight mode.

6.1 White Light Modes

- **Turn ON/OFF:** Single click the switch to turn the light ON or OFF.
- **Change Brightness:** When ON, press and hold the switch to cycle through Low → Medium → High. Release the switch to select the desired brightness.
- **Moonlight Mode:** When OFF, press and hold the switch for 3 seconds to activate Moonlight mode (1 lumen).
- **Turbo Mode:** Double click the switch from any state (ON or OFF) to activate Turbo mode (850 lumens). Double click again to return to the previous mode.
- **Mode Memory:** The headlamp will remember the last used white light brightness level (except Turbo and Moonlight) when turned off.

ALL-WEATHER APPLICABLE IP68



Image: Visual representation of the five white light brightness levels of the HD12 headlamp, from Moonlight to Turbo.

6.2 Red Light Modes

- **Activate Red Light:** Triple click the switch from any state (ON or OFF) to activate the red light mode.
- **Change Red Light Brightness:** When red light is ON, press and hold the switch to cycle through Low → Medium → High. Release to select.
- **Red Light Blinking:** Double click while in red light mode to activate blinking. Double click again to return to the previous red light mode.
- **Turn OFF Red Light:** Single click the switch.



Image: The HD12 headlamp demonstrating its dual white and red light capabilities, with detailed views of red light modes including Low, Medium, High, and Blinking.

6.3 Magnetic Tail Cap

The magnetic tail cap allows the HD12 to be attached to metal surfaces for hands-free operation, which is particularly useful during repairs or in emergency situations.

MOONLIGHT MODE: 1LM

Press Switch 3S (OFF Mode)



Image: The HD12 headlamp utilizing its magnetic tail cap for hands-free illumination during an activity like car maintenance.

7. CHARGING

The Wurkkos HD12 features a convenient USB-C charging port.

1. Locate the USB-C charging port on the side of the headlamp, usually covered by a rubber flap.
2. Open the rubber flap and connect the provided USB-C cable to the port.
3. Connect the other end of the USB-C cable to a USB power source (e.g., wall adapter, power bank, computer USB port).
4. During charging, the indicator light on the switch will glow red.
5. Once fully charged (approximately 3-4 hours), the indicator light will turn green.
6. After charging, ensure the rubber flap is securely closed to maintain the IP68 waterproof rating.



Image: The HD12 headlamp connected to a USB-C charging cable, with indicators showing red during charging and green when fully charged.

8. MAINTENANCE

- **Cleaning:** Wipe the headlamp with a soft, damp cloth. Do not use harsh chemicals or abrasives.

- **O-rings:** Periodically inspect the O-rings for wear and tear. Replace them with the provided spare O-rings if necessary to maintain the waterproof seal. Apply silicone grease to O-rings to prevent drying and cracking.
- **Threads:** Keep the threads of the tail cap clean and lightly lubricated to ensure smooth operation and proper sealing.
- **Battery Storage:** If storing the headlamp for an extended period, remove the battery to prevent leakage. Recharge the battery every 3-6 months to prolong its lifespan.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on.	Battery is dead. Battery is inserted incorrectly. Tail cap is loose. Insulator disc not removed.	Charge the battery. Reinsert battery with positive (+) end towards the head. Tighten the tail cap. Remove the plastic insulator disc from the battery.
Light flickers or turns off unexpectedly.	Low battery. Loose tail cap or dirty contacts.	Recharge or replace the battery. Clean battery contacts and threads, then tighten the tail cap.
Cannot activate red light mode.	Incorrect operation.	Triple click the switch from any state (ON or OFF) to activate red light.
Charging indicator does not light up.	Charging cable not properly connected. Charging port is dirty. Battery is already full.	Ensure USB-C cable is fully inserted into both the headlamp and power source. Clean the USB-C port carefully. Check if the indicator turns green, indicating a full charge.

10. SPECIFICATIONS



HD12 TECHNICAL PARAMETER COMES WITH 900 MAH

Mode	Emitter	Moon	Low	Medium	High	Turbo	Blinking
Luminous Flux(lm)	White	2lm	10lm	120lm	300lm	850-300lm	-
	Red	-	1lm	10lm	30lm	-	30lm
Runtime (h)	White	80h	19.5h	2.5h	1h	2h+45min	-
	Red	-	53h	7h	1h	-	-
Beam Distance(m)	White	4m	13m	40m	66m	105m	-
	Red	-	-	9m	15m	-	-
Peak Intensity(cd)	White	5cd	43cd	398cd	1100cd	2750cd	-
	Red	-	-	21cd	56cd	-	-

Image: Technical specifications table for the Wurkkos HD12, detailing luminous flux, runtime, beam distance, and peak intensity for various white and red light modes.



Image: The HD12 headlamp demonstrating its IP68 all-weather compatibility, including waterproof and drop test resistance.

Feature	Detail
Model	HD12
Brand	Wurkkos
Light Source	LED (White & Red)
Max Output	850 Lumens (White Light)
Battery Type	1 x 14500 Lithium-Ion (included) or 1 x AA (compatible)
Charging	USB-C Rechargeable
Waterproof Rating	IP68 (submersible up to 2 meters)
Impact Resistance	1.5 meters
Material	Aerospace-grade Aluminum Alloy
Dimensions (L x W x H)	8 cm x 2 cm x 3 cm (approx.)
Weight	Approx. 80g (without battery)
Color	Black
GTIN/UPC	717690733728

11. WARRANTY & SUPPORT

The Wurkkos HD12 LED Headlamp comes with a **12-month warranty** from the date of purchase, covering manufacturing defects. This warranty does not cover damage caused by misuse, unauthorized modifications, negligence, accidents, or normal wear and tear.

For warranty claims or technical support, please contact Wurkkos customer service through the retailer where you purchased the product or visit the official Wurkkos website for contact information.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question