Klarus 360X3

Klarus 360X3 Tactical Flashlight User Manual

Model: 360X3 | Brand: Klarus

1. Introduction

The Klarus 360X3 is a high-performance tactical flashlight designed for various applications, offering exceptional brightness, versatile operation, and robust construction. Featuring a CREE XHP70.2 P2 LED, it delivers a maximum output of 3200 lumens and a throw distance of 283 meters. Its innovative 360-degree "Switch Ring" and dual-switch design provide intuitive control and rapid access to multiple lighting modes.
This manual provides detailed instructions for the proper use, maintenance, and troubleshooting of your Klarus 360X3 flashlight. Please read it thoroughly before operation to ensure optimal performance and safety.

2. Package Contents

Upon unboxing, please verify that all items listed below are included in your package:

- Klarus 360X3 Tactical Flashlight
- 1 x KLARUS 18650 Battery (18GT-IMR31)
- 1 x Micro-USB Cable
- 1 x Lanyard
- 1 x Spare O-ring
- 1 x Nylon Holster
- 1 x Clip
- 1 x Car Charger
- 1 x TRS1 Remote Switch



Figure 2.1: Klarus 360X3 flashlight with all standard accessories, including the 18650 battery, USB cable, holster, and remote switch.

3. Specifications

The following table details the technical specifications of the Klarus 360X3 Tactical Flashlight:

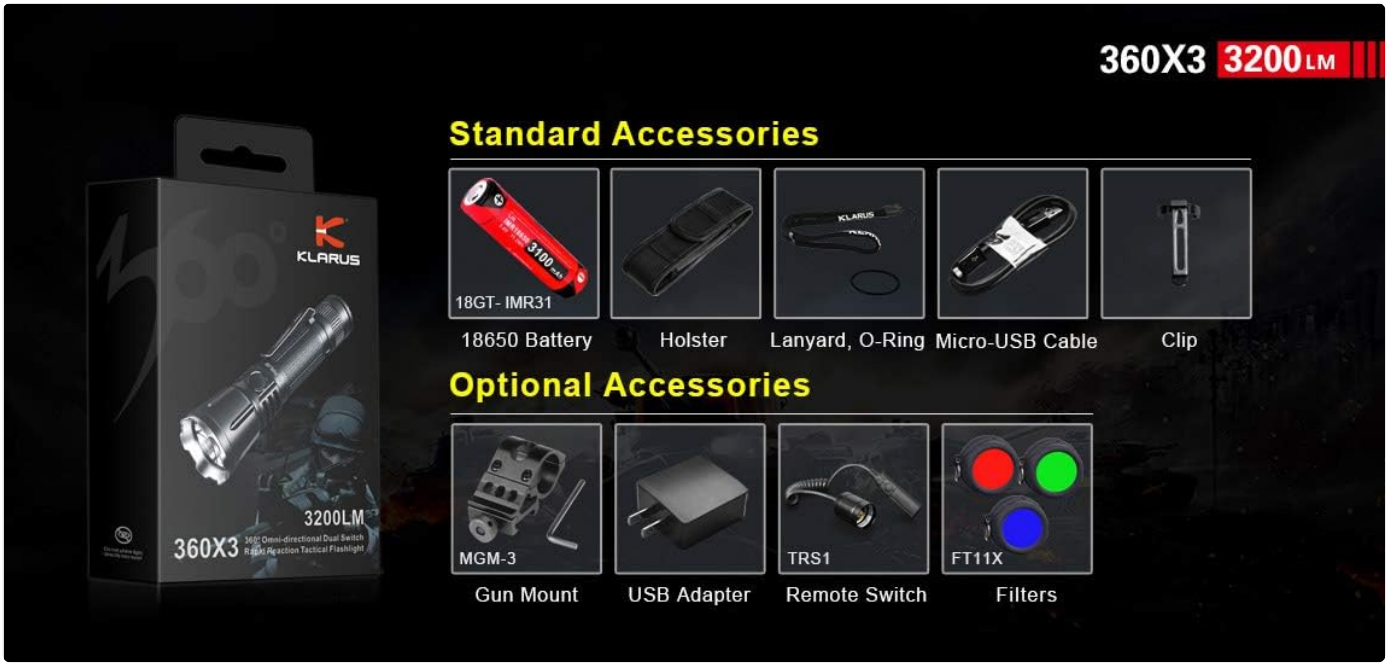


Figure 3.1: Detailed specifications for the Klarus 360X3, including LED type, voltage, battery compatibility, dimensions, and material.

Table 3.1: Klarus 360X3 Technical Specifications

Feature	Detail
LED	CREE XHP70.2 P2 LED, lifetime up to 50,000 Hours
Working Voltage	3.0V-8.4V
Compatible Batteries	1 x 18650 or 2 x CR123A or 2 x KLARUS 16340
Charging Time	Approx. 4 hours for included battery (1A, 3100mAh)
Reflector	Orange Peel
Lens	Tempered Glass Lens; AR coated; Scratch resistant
Switch	360-Degree Tail Cap Dual-Switch + Side Switch
Dimensions (Head x Body x Length)	41.0mm (1.61”) x 27.2mm (1.07”) x 153.0mm (6.02”)
Weight (without battery)	140g (4.94oz)
Material	Aerospace Aluminum Alloy 6061-T6, Mil-Spec HAIII Anodizing
Waterproof	IPX8 (2 Meters Submersible)
Impact Resistance	1 Meter

4. Setup

4.1 Battery Installation

The Klarus 360X3 is compatible with one 18650 battery, two CR123A batteries, or two Klarus 16340 batteries. For optimal performance, use the included Klarus 18650 battery.

1. Unscrew the tail cap of the flashlight by turning it counter-clockwise.
2. Insert the battery with the positive (+) terminal facing towards the head of the flashlight.

3. Screw the tail cap back on clockwise until it is securely tightened.

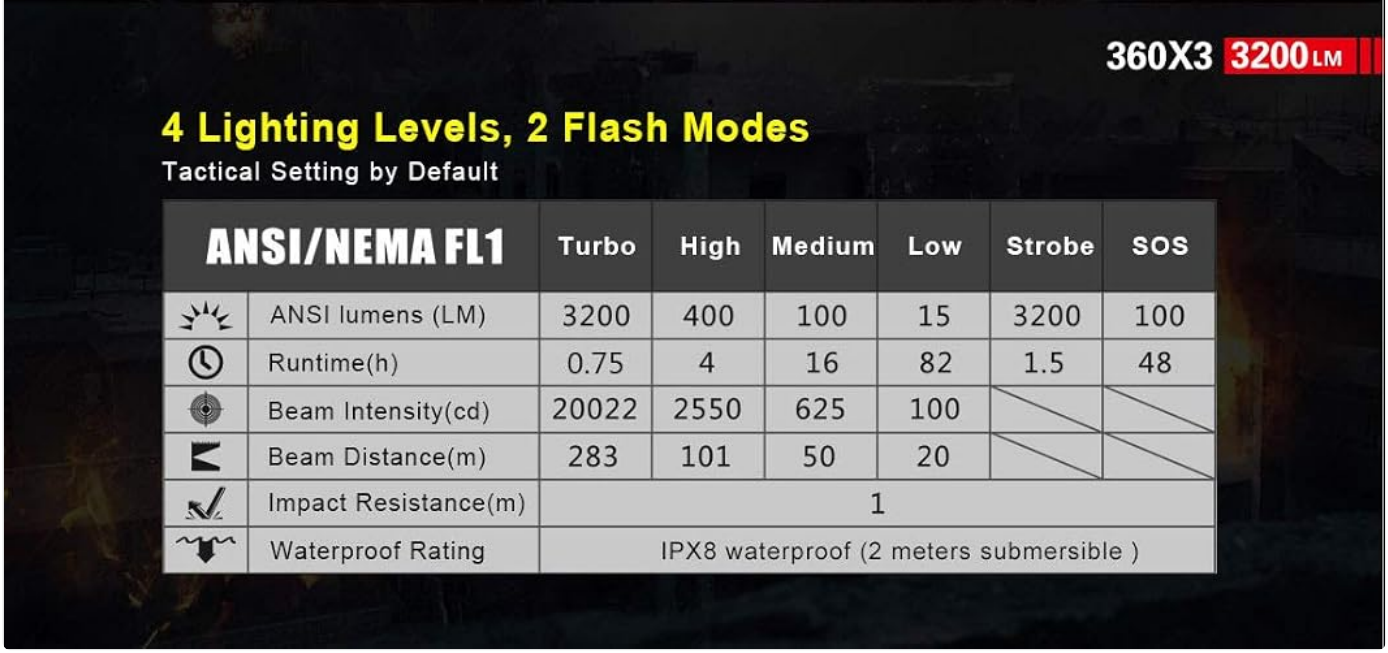
4.2 Charging the Battery

The 360X3 features a convenient Micro-USB charging port, allowing you to charge the included 18650 battery directly within the flashlight. The Intelligent Charging System (ICS) ensures safe and efficient charging.

1. Locate the Micro-USB charging port on the side of the flashlight, typically covered by a protective silicone plug.
2. Open the protective plug.
3. Connect the Micro-USB cable (included) to the flashlight's charging port.
4. Connect the other end of the USB cable to a USB power source (e.g., computer USB port, wall adapter, or the included car charger).
5. The battery capacity indicator will show the charging status:
    - **Green**: Over 70% charged
    - **Orange**: 30% - 70% charged
    - **Red**: Less than 30% charged
    - **Flashing Red**: Less than 10% charged (requires charging)
6. Once charging is complete, the indicator will turn solid green. Disconnect the USB cable and securely close the protective plug to maintain waterproof integrity.







ANSI/NEMA FL1	Turbo	High	Medium	Low	Strobe	SOS
ANSI lumens (LM)	3200	400	100	15	3200	100
Runtime(h)	0.75	4	16	82	1.5	48
Beam Intensity(cd)	20022	2550	625	100		
Beam Distance(m)	283	101	50	20		
Impact Resistance(m)	1					
Waterproof Rating	IPX8 waterproof (2 meters submersible)					

Figure 4.1: Visual representation of the Intelligent Battery Identification System (IBIS), Battery Capacity Indicator, and Intelligent Charging System (ICS).

5. Operating Instructions

5.1 Switch Operation

The Klarus 360X3 features a versatile control system with a 360-degree tail cap dual-switch and a side switch, allowing for flexible operation in various scenarios.



Figure 5.1: Illustration of the 360° Ring Switch and Primary Switch for rapid reaction and omnidirectional control.



Figure 5.2: Depiction of the Side Switch functions and the Primary Switch/360° Ring Switch functions.

Tail Cap Dual-Switch:

- **Primary Switch (Main Button)**:
  - Momentary ON: Press and hold. Release to turn off.
  - Constant ON: Click to turn on/off.
  - Mode Memory: Remembers the last used mode (except Strobe/SOS).
- **360° Ring Switch (Silicone Ring)**:
  - One-Touch Strobe: Press the ring switch from any angle to activate Strobe.
  - One-Touch Low: Press and hold the ring switch from any angle to activate Low mode.

Side Switch:

- **ON/OFF**: Click to turn the flashlight on or off.
- **Mode Change**: When ON, press and hold to cycle through lighting modes (Low-Medium-High-Turbo).
- **One-Touch Low**: When OFF, press and hold to activate Low mode.
- **SOS**: When ON, double-click rapidly to activate SOS mode.
- **Strobe**: When ON, triple-click rapidly to activate Strobe mode.
- **Mode Memory**: Remembers the last used mode (except Strobe/SOS).

5.2 Programmable Dual Settings

The 360X3 offers two programmable settings to suit different operational needs: Tactical Setting and Outdoor Setting.



Figure 5.3: Visual guide to switching between Tactical and Outdoor settings and their primary functions.

- **Tactical Setting (Default)**: Optimized for rapid response.

    - One-Touch Strobe via 360° Ring Switch.
    - One-Touch Turbo via Primary Switch.

- **Outdoor Setting**: Optimized for general use and extended runtime.
    - One-Touch Low via 360° Ring Switch.
    - One-Touch Turbo via Primary Switch.

To switch between settings, ensure the flashlight is OFF. Press and hold both the Primary Switch and the Side Switch simultaneously for 3 seconds until the light flashes, indicating the setting has changed.

5.3 Lighting Levels and Flash Modes

The 360X3 provides four constant lighting levels and two flash modes (Strobe and SOS).

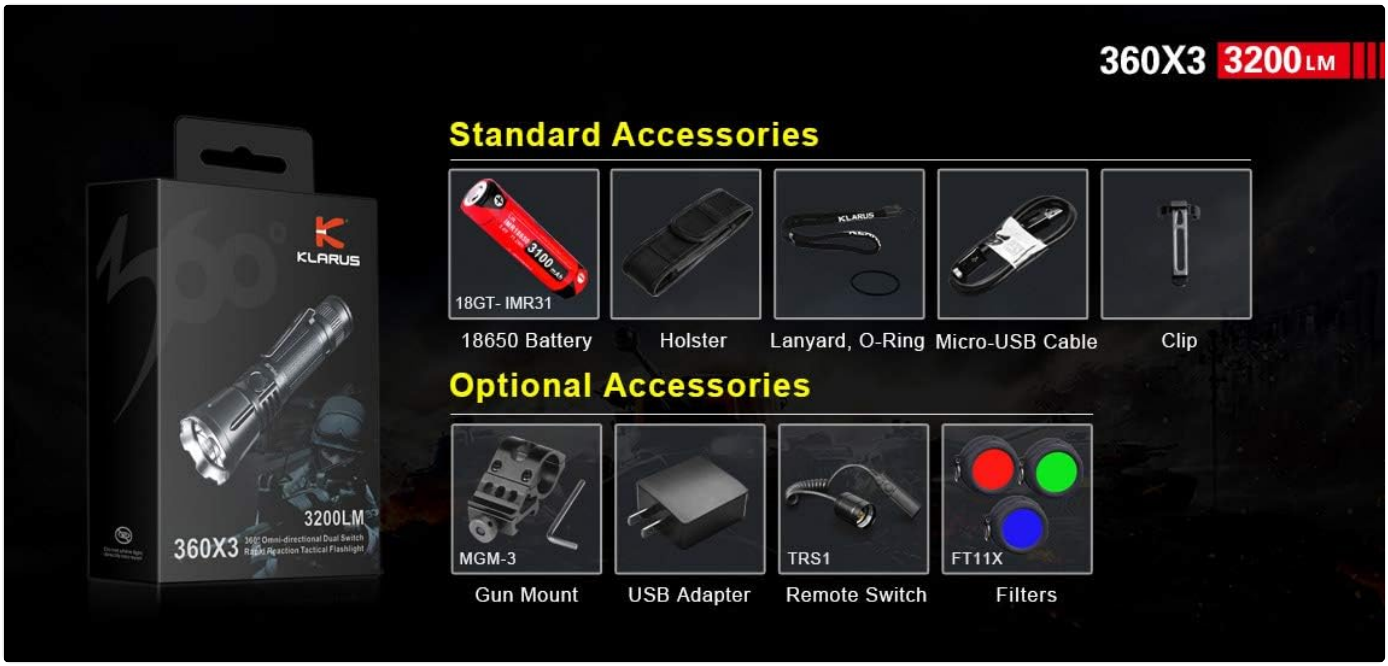


Figure 5.4: ANSI/NEMA FL1 standard performance data for different lighting levels and flash modes.

Table 5.1: Lighting Levels and Performance (ANSI/NEMA FL1)

Mode	ANSI Lumens (LM)	Runtime (H)	Beam Intensity (cd)	Beam Distance (m)
Turbo	3200	0.75	20022	283
High	400	4	2550	101
Medium	100	16	625	50
Low	15	82	100	20
Strobe	3200	1.5	-	-
SOS	100	48	-	-

5.4 Lockout Function

To prevent accidental activation during transport or storage, the 360X3 features a lockout function for both the side switch and tail switch.

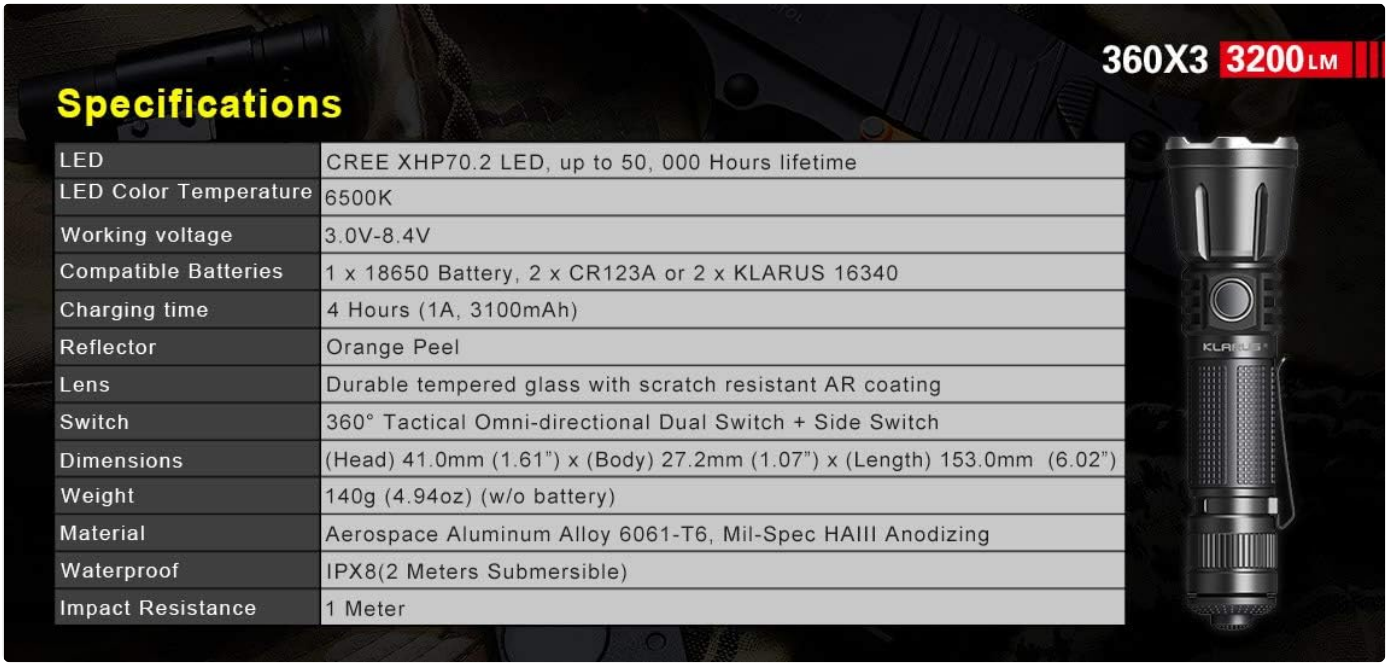


Figure 5.5: Instructions for activating the lockout function for both the side switch and tail switch.

- **Side Switch Lockout**: With the flashlight OFF, press and hold the Side Switch for 5 seconds until the light flashes, indicating it is locked out. Repeat the process to unlock.
- **Tail Switch Lockout**: Loosen the tail cap by turning it counter-clockwise for half a circle or more. This physically disconnects the circuit, preventing activation. Tighten the tail cap to unlock.

6. Advanced Features

The Klarus 360X3 incorporates several intelligent systems to enhance performance, safety, and user experience.



Figure 6.1: Overview of the Intelligent Thermal Protection System (ITS), Intelligent Charging System (ICS), Intelligent Battery Identification System (IBIS), and Multiple Safety Systems.

6.1 Intelligent Thermal Protection System (ITS)

The ITS monitors the internal temperature of the flashlight and automatically adjusts the output to prevent overheating. This protects the LED and internal components, ensuring safety, stability, and maximum user comfort during prolonged use at high outputs.

6.2 Intelligent Battery Identification System (IBIS)

IBIS automatically identifies the installed 18650 Li-ion battery's discharge capability and adjusts the maximum output accordingly. It is also compatible with CR123A and KLARUS 16340 batteries, optimizing performance for each battery type.

6.3 Intelligent Charging System (ICS)

As detailed in Section 4.2, the ICS provides quick and convenient charging via the Micro-USB port. It monitors charging status in real-time, preventing overcharging and limiting the maximum charging current to prevent damage, ensuring a safer and faster charging process.

6.4 Multiple Safety Systems

The 360X3 is equipped with comprehensive safety features to protect both the flashlight and the user:

- **Over-Charging Protection**: Prevents battery damage from excessive charging.
- **Impact Protection**: Designed to withstand impacts up to 1 meter.
- **Over-Voltage Protection**: Safeguards against voltage spikes.
- **Over-Current Protection**: Protects against excessive current draw.
- **Thermal Protection**: (See ITS, Section 6.1)
- **Reverse Polarity Protection**: Prevents damage from incorrect battery insertion.

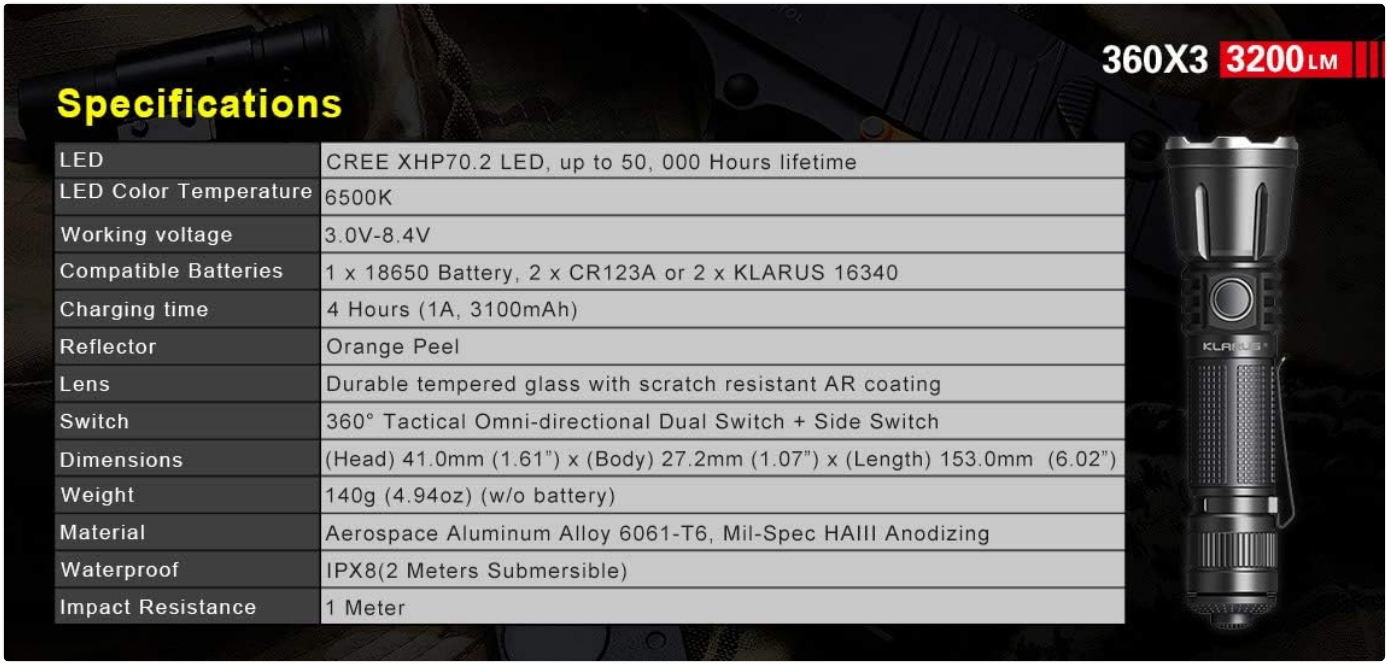


Figure 6.2: Diagram illustrating the various safety protection mechanisms integrated into the flashlight.

6.5 Weather Resistance

The Klarus 360X3 boasts an IPX8 waterproof rating, meaning it is fully submersible down to 2 meters. This ensures reliable operation in various weather conditions, including heavy rain and temporary submersion.

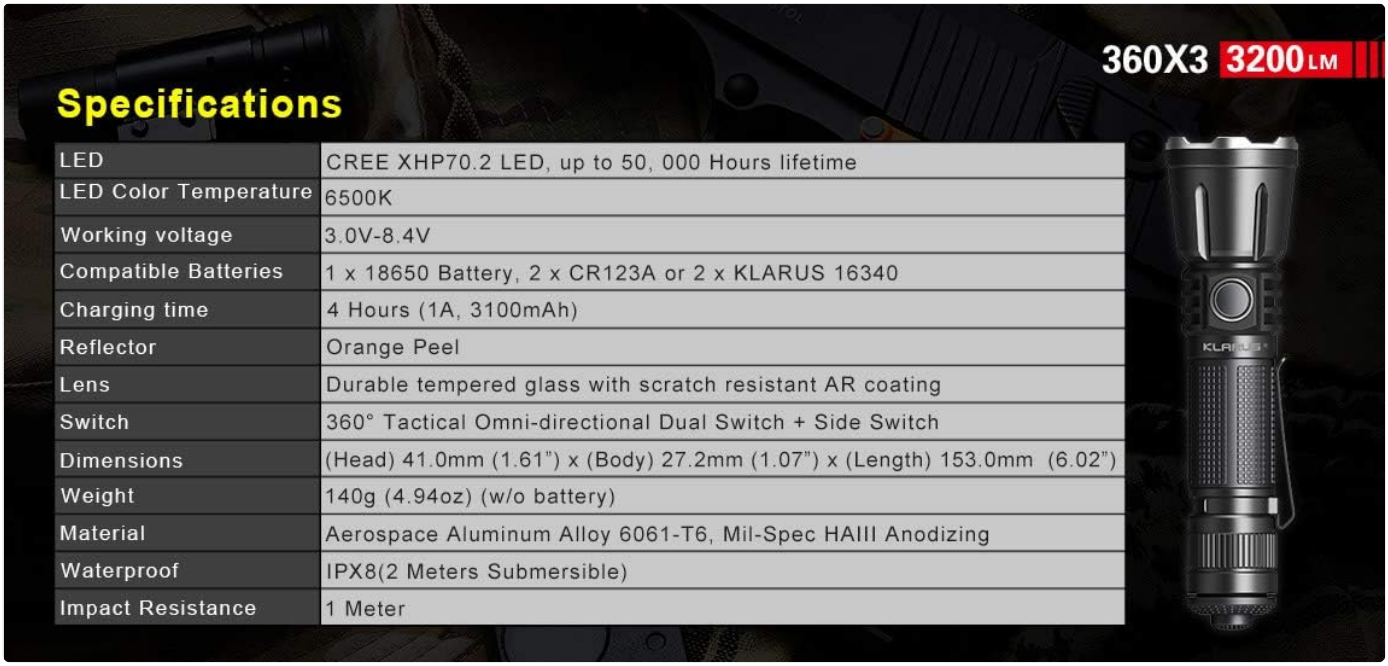


Figure 6.3: Indication of IPX8 waterproof rating (2 meters submersible) and 1-meter impact resistance.

7. Maintenance

Proper maintenance will ensure the longevity and optimal performance of your Klarus 360X3 flashlight.

- **Cleaning**: Regularly clean the flashlight body with a soft, damp cloth. For the lens, use a lens cleaning cloth to avoid scratches.
- **Lubrication**: Apply a thin layer of silicone grease to the O-rings and threads periodically to maintain waterproof integrity and smooth operation.
- **O-ring Replacement**: If O-rings become damaged or worn, replace them with the included spare O-ring to maintain the waterproof seal.
- **Battery Care**:
  - Remove the battery if the flashlight will not be used for an extended period to prevent potential leakage.
  - Store batteries in a cool, dry place.
  - Do not over-discharge or overcharge batteries.
- **Avoid Disassembly**: Do not attempt to disassemble the sealed head or other components, as this may damage the flashlight and void the warranty.

8. Troubleshooting

If you encounter issues with your Klarus 360X3, please refer to the following common troubleshooting steps:

Table 8.1: Common Troubleshooting Guide

Problem	Possible Cause	Solution
Flashlight does not turn on	• Battery depleted • Battery inserted incorrectly • Tail cap loose • Flashlight in lockout mode	• Charge or replace battery • Ensure positive (+) terminal faces head • Tighten tail cap securely • Unlock side switch (press and hold for 5s) or tighten tail cap

Problem	Possible Cause	Solution
Light is dim or flickers	• Low battery • Dirty contacts • Overheating (ITS activated)	• Charge or replace battery • Clean battery and flashlight contacts with alcohol swab • Allow flashlight to cool down; output will return to normal
Cannot change modes	• Incorrect switch operation • Flashlight in lockout mode	• Refer to Section 5.1 for correct switch usage • Unlock flashlight

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

9. Warranty and Support

Klarus products are manufactured with high-quality materials and craftsmanship. Your Klarus 360X3 Tactical Flashlight is covered by a limited warranty against defects in materials and workmanship. Please refer to the official Klarus website or your local distributor for specific warranty terms and conditions.
For technical support, warranty claims, or service inquiries, please contact Klarus customer service through their official channels. Keep your purchase receipt as proof of purchase for warranty purposes.

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