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> [TrustFire TC50 High Lumen Rechargeable LED Flashlight User Manual](#)

TrustFire TC50

TrustFire TC50 High Lumen Rechargeable LED Flashlight User Manual

Model: TC50 | Brand: TrustFire

INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your TrustFire TC50 High Lumen Rechargeable LED Flashlight. The TC50 features a versatile dual lighting system, offering both forward (floodlight, spotlight, hybrid) and reverse (warm white, red, blue) lighting modes, a magnetic base, and IPX6 waterproofing. Please read this manual thoroughly before operating the device.

WHAT'S IN THE BOX

- TC50 Flashlight x 1
- User Manual x 1
- USB-C Charging Cable x 1

SPECIFICATIONS

Feature	Value
Special Feature	Portable, High Power, Rechargeable
Color	Black
Power Source	Battery Powered
Light Source Type	LED
Material	Aluminum
White Brightness (Max)	5100 Lumens
Product Dimensions	3.1"D x 2.5"W x 7.9"H
Item Weight	0.47 Kilograms (1.04 pounds)
Water Resistance Level	IPX6 Water Resistant

Color Temperature	5700 Kelvin
Bulb Features	Dual lighting system, multiple lighting modes, magnetic base
Battery	1 Lithium Ion battery (included)

SETUP

Initial Charge

Before first use, fully charge the flashlight using the provided USB-C cable. The battery indicator will show charging status.

Battery Installation

The TC50 flashlight comes with a pre-installed Lithium Ion battery. Ensure the battery cap is securely tightened before use.

OPERATING INSTRUCTIONS

General Operation and Mode Switching

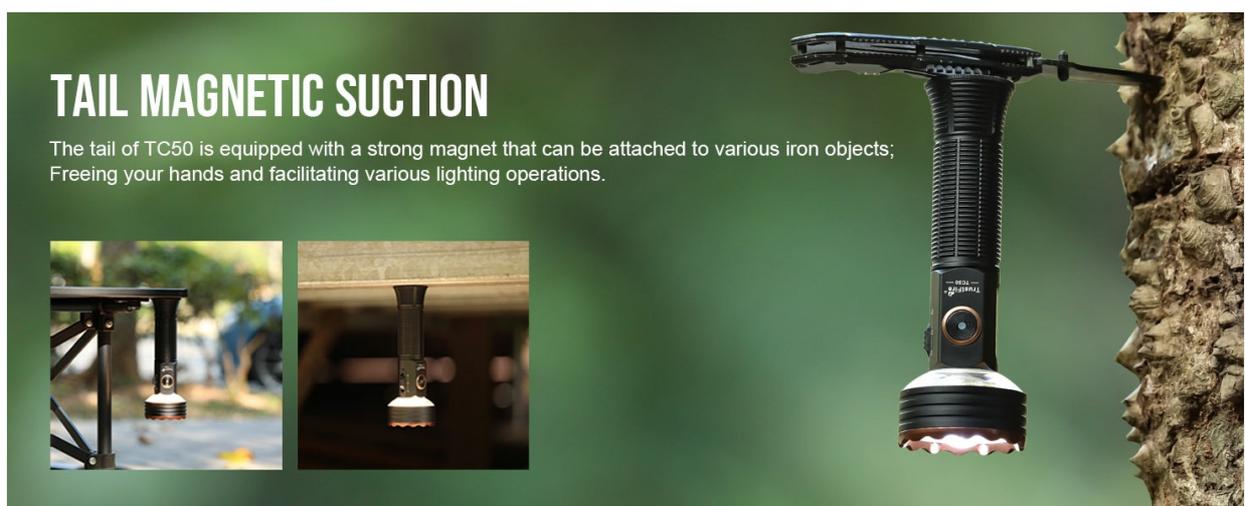
The TrustFire TC50 features a side push-pull button for main mode selection and a neck button for brightness and special mode adjustments within each main mode.

Your browser does not support the video tag.

This video demonstrates how to switch between the flashlight's main modes using the side push-pull button and adjust brightness/activate special functions using the neck button.

Main Mode Selection (Side Push-Pull Button)

- **Shutdown Mode:** Bottom position.
- **Work Light Mode (Reverse Light):** Middle position. Activates the warm white, red, or blue light.
- **Flashlight Mode (Forward Light):** Top position. Activates the floodlight, spotlight, or hybrid modes.



This image illustrates the side toggle switch for selecting between the reverse light (work light), forward light (flashlight), and off positions.

Reverse Light Modes (Work Light)

When the side switch is in the middle position, the reverse light is active. Use the neck button to cycle through modes.

Mode	Lumen (LM)	Runtime	Range
Moonlight	1.5 LM	600 Hours	/
Low	10 LM	160 Hours	4 m
Medium	35 LM	40 Hours	7 m
High	250 LM	480 Min	20 m
Extremely	1000 LM	230 Min	38 m

Red Light

Press and hold the neck button for 1 second from warm white mode to switch to red light. Click to cycle through modes: Moonlight, High, Slow Flash, Fast Flash, SOS. Useful for preserving night vision or as a warning signal.



The red light mode is activated, useful for maintaining night vision or as a discreet signal.

Mode	Lumen (LM)	Runtime
Moonlight	0.1 LM	550 Hours

High	85 LM	320 Min
Slow Flash	0-85 LM	600 Min
Fast Flash	0-85 LM	600 Min
SOS	0-85 LM	450 Min

Blue Light

From red light mode, press and hold the neck button for 1 second to switch to blue light. Click to cycle through modes: Moonlight, High, Slow Flash, Fast Flash, SOS. Enhances visibility for tracking or inspection in low-light conditions.



The blue light mode is activated, which can help with tracking or inspecting details in dark environments.

Mode	Lumen (LM)	Runtime
Moonlight	0.1 LM	550 Hours
High	70 LM	250 Min
Slow Flash	0-70 LM	480 Min

Fast Flash	0-70 LM	480 Min
SOS	0-70 LM	360 Min

Red-Blue Alternating Strobe

Double-click the neck button from shutdown mode to enter red and blue light flashing mode. Click to switch between slow and fast alternation. This mode is for emergency signaling.



This image demonstrates the red, blue, and alternating red-blue flashing modes, which can be used as warning lights.

Forward Light Modes (Flashlight)

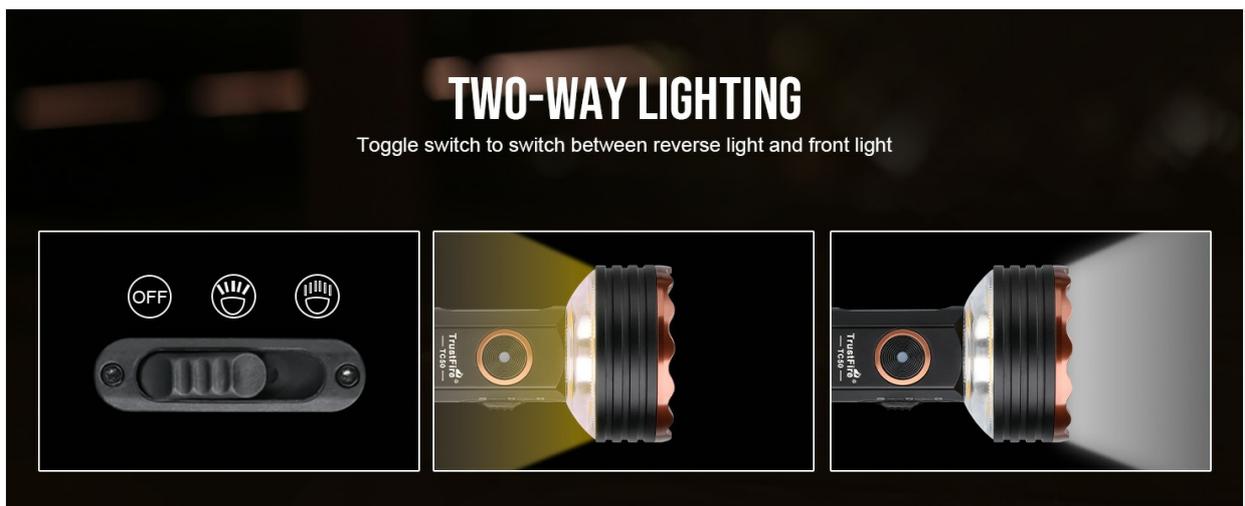
When the side switch is in the top position, the forward light is active. Press and hold the neck button for 1 second to switch between Floodlight, Spotlight, and Hybrid modes. Click the neck button to adjust brightness within each mode.

Floodlight Mode

Provides a wide beam for illuminating large areas. Click the neck button to cycle through brightness levels (Moonlight, Low, Medium, High, Extreme).



The flashlight in floodlight mode, casting a broad beam to light up a wide area.



This image highlights the ultra-bright front LED floodlight feature with its five distinct brightness modes.

Mode	Lumen (LM)	Runtime	Range
Moonlight	3 LM	500 Hours	4 m
Low	30 LM	80 Hours	15 m

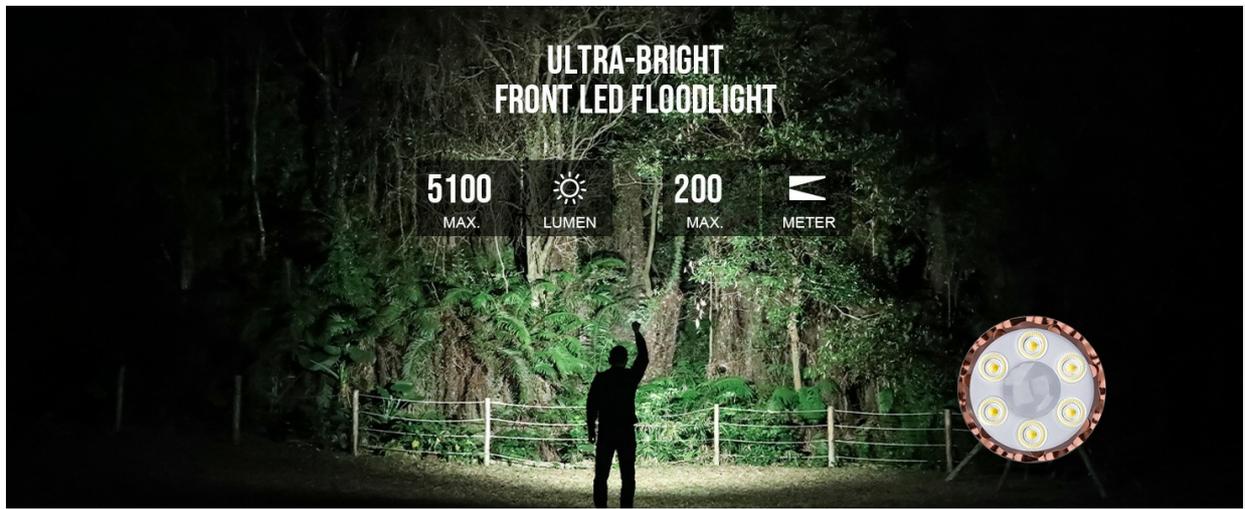
Medium	300 LM	600 Min	48 m
High	1200 LM	140 Min	100 m
Extreme	5100 LM	110 Min	200 m

Spotlight Mode

Provides a focused beam for long-distance illumination. Press and hold the neck button for 1 second from floodlight mode to switch to spotlight mode. Click the neck button to cycle through brightness levels (Low, Medium, High).



The flashlight in spotlight mode, showing a concentrated beam for illuminating distant objects.



This image illustrates the front long-distance spotlight capability of the flashlight.

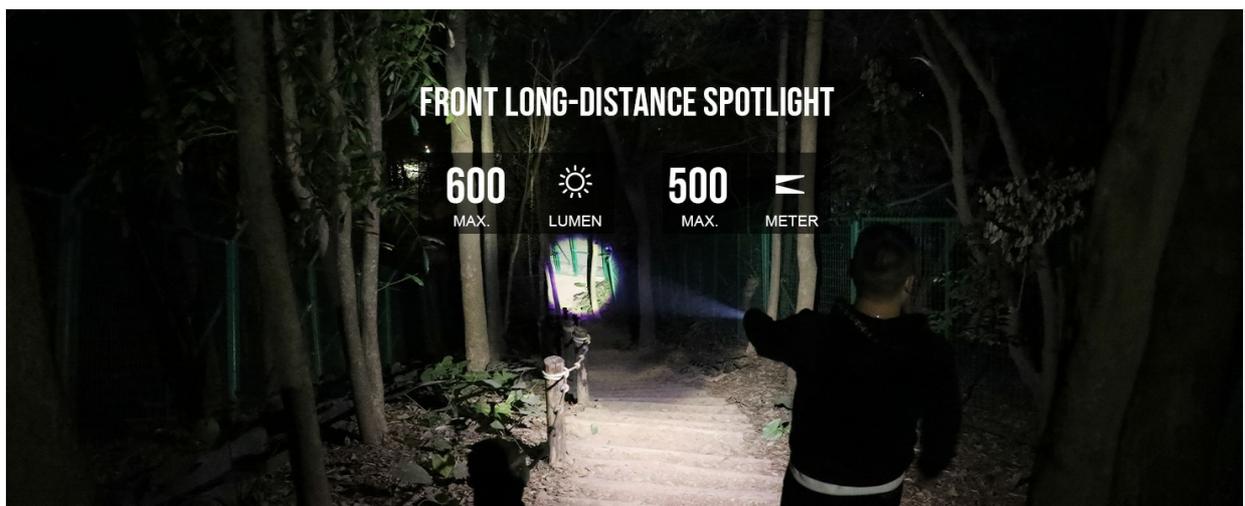
Mode	Lumen (LM)	Runtime	Range
Low	80 LM	20 Hours	130 m
Medium	300 LM	320 Min	250 m
High	600 LM	180 Min	500 m

Hybrid Mode (Floodlight + Spotlight)

Press and hold the neck button for 1 second from spotlight mode to switch to hybrid mode. Click the neck button to cycle through brightness levels (Low, Medium, High). This mode combines both floodlight and spotlight for versatile illumination.



The flashlight in hybrid mode, showing a combination of wide and focused beams.



This image illustrates the front floodlight and spotlight working together in hybrid mode.

Mode	Lumen (LM)	Runtime	Range
Low	200 LM	13 Hours	130 m
Medium	420 LM	240 Min	250 m

High	1100 LM	150 Min	500 m
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Battery Indicator

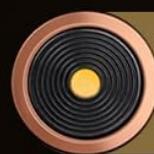
When the device is turned off, lightly touch the neck switch to activate the power indicator light for 3 seconds. Different colors represent remaining power:

- **Green:** 100%-80%
- **Yellow:** 80%-30%
- **Red:** 30%-5%
- **Flashing Red:** 5%-0%

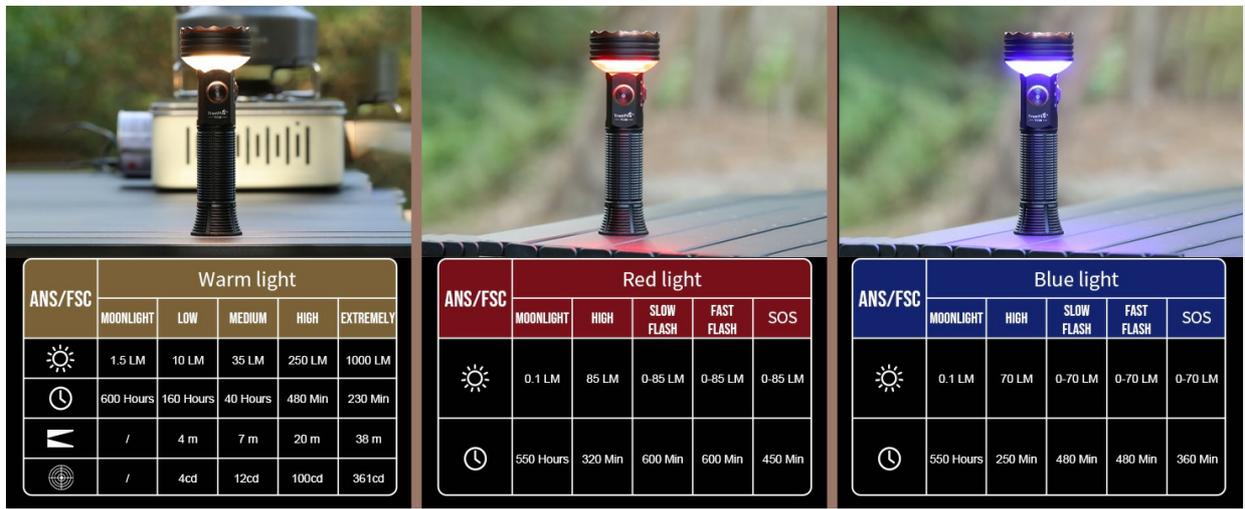


BATTERY INDICATOR

When the device is turned off, lightly touch the neck switch, the power indicator light will light up, and then automatically turn off after 3 seconds. Different colors represent different remaining power, and the corresponding relationship is shown in the following table:

	Green 100%-80%
	Yellow 80%-30%
	Red 30%-5%
	Flashing red 5%-0%

This image displays the battery indicator light, showing different colors corresponding to the remaining power levels.



The battery indicator on the flashlight, with colors indicating power levels from 100% down to 0%.

Charging and Discharging Function

The TC50 supports Type-C charging and discharging.

Charging Instructions:

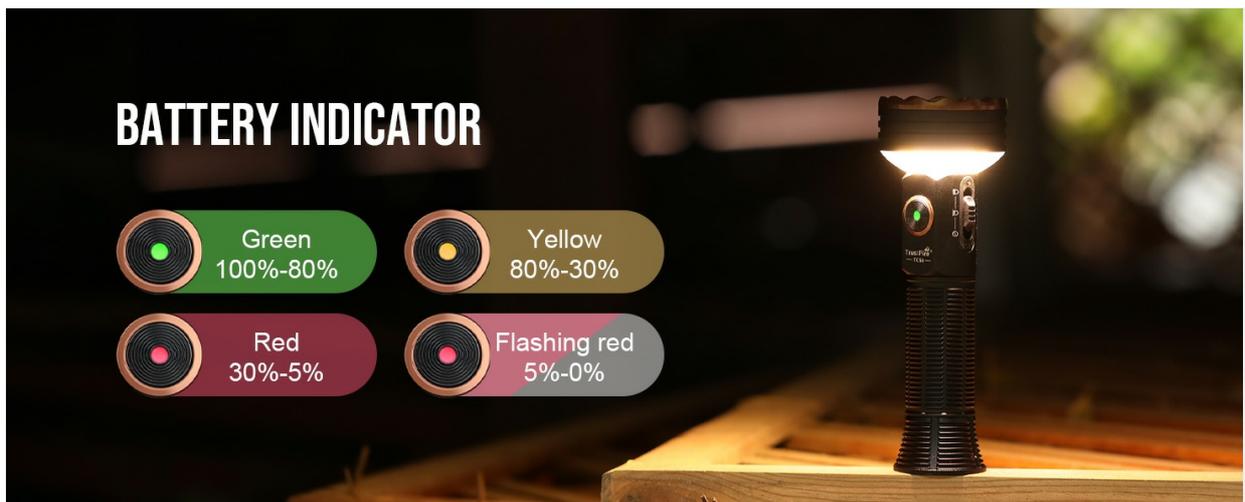
- Intelligent identification of charging and discharging: Charging and discharging are done through the same Type-C port, and the charging and discharging device can be intelligently identified.
- Charging mode: The red indicator light is always on during charging, and the green indicator light is always on when fully charged.

Discharging Mode:

- In the discharging state, the indicator light will display the current power in real time.

Note:

- When the power level of the flashlight is less than 30%, stop discharging and do not charge other devices.
- Since the battery will slowly self-discharge, it is recommended to charge the product once every four months if the flashlight is not used for a long time to avoid battery damage.



This image illustrates the Type-C charging and discharging capabilities of the flashlight, including the port and charging status.

Magnetic Base & Tripod Mount

The TC50 features a strong magnetic tailcap, allowing it to be attached to metal surfaces for hands-free lighting. It also has a 1/4-inch internal thread at the tail for mounting on a tripod (tripod not included), providing stable and versatile illumination.

TAIL MAGNETIC SUCTION

The tail of TC50 is equipped with a strong magnet that can be attached to various iron objects; Freeing your hands and facilitating various lighting operations.



The flashlight is shown attached to various metal objects using its magnetic tailcap for hands-free operation.

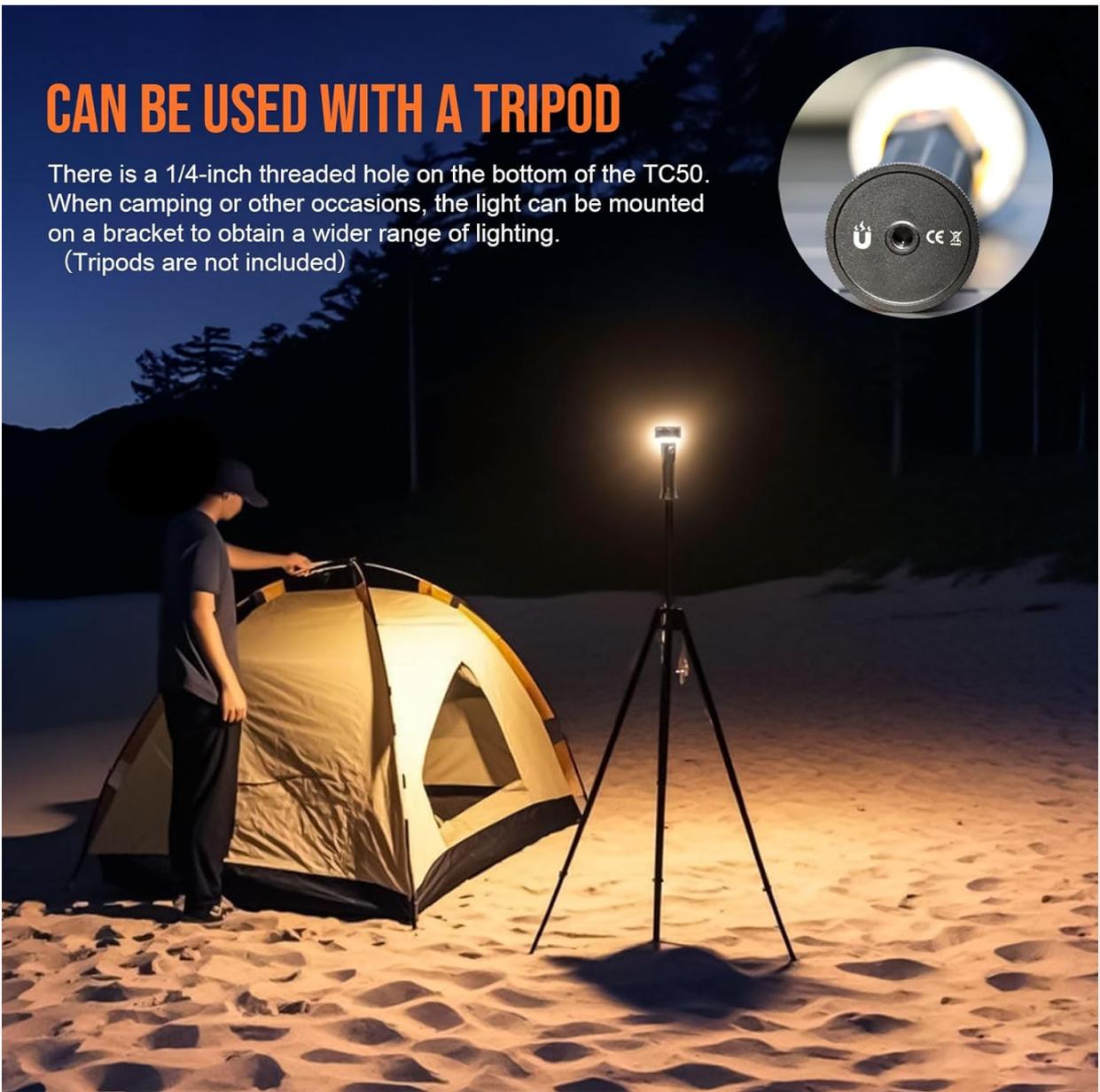
IPX6 WATERPROOF



This image highlights the strong magnetic tailcap, allowing the flashlight to be securely attached to iron objects.

CAN BE USED WITH A TRIPOD

There is a 1/4-inch threaded hole on the bottom of the TC50. When camping or other occasions, the light can be mounted on a bracket to obtain a wider range of lighting. (Tripods are not included)



The flashlight is mounted on a tripod, showcasing its 1/4-inch internal thread for stable positioning.

TYPE-C CHARGING AND DISCHARGING FUNCTION

Charging instructions:

- Intelligent identification of charging and discharging: Charging and discharging are done through the same Type-C port, and the charging and discharging device can be intelligently identified.
- Charging mode: The red indicator light is always on during charging, and the green indicator light is always on when fully charged.
- Discharging mode: In the discharging state, the indicator light will display the current power in real time.

Note:

- When the power level of the flashlight is less than 30%, stop discharging and do not charge other devices;
- Since the battery will slowly self-discharge, it is recommended to charge the product once every four months when the flashlight is not used for a long time to avoid battery damage.



The flashlight is shown mounted on a tripod, providing broader and more stable lighting for outdoor activities.

Waterproofing

The TrustFire TC50 has an IPX6 waterproof rating, ensuring reliable performance against strong jets of water from any direction. It is constructed from anodized aircraft-grade aluminum for superior impact resistance.

IPX6 WATERPROOF



The flashlight is shown being exposed to water, illustrating its IPX6 waterproof capability.

CAN BE USED WITH A TRIPOD

There is a 1/4-inch threaded hole on the bottom of the TC50. When camping or other occasions, the light can be mounted on a bracket to obtain a wider range of lighting.



(Tripods are not included)



This image shows the flashlight being used in rainy conditions, emphasizing its IPX6 waterproof design.

MAINTENANCE

Cleaning

Wipe the flashlight with a clean, soft cloth. Do not use abrasive cleaners or solvents.

Storage

Store the flashlight in a cool, dry place. If not used for extended periods, charge the battery every four months to prevent damage.

TROUBLESHOOTING

Light Not Turning On

- Ensure the battery is charged.
- Check if the battery is correctly inserted.
- Verify the side mode switch is not in the "Shutdown Mode".

Dim Light Output

- Recharge the battery.
- Ensure the desired brightness level is selected using the neck button.

Red-Blue Flashing Not Working

- Ensure the flashlight is in shutdown mode before double-clicking the neck button to activate this feature.

Magnetic Base Not Holding

- Ensure the surface is ferromagnetic and clean.

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided in your product packaging or visit the official TrustFire website.