



LUPINE[®]
LIGHTING SYSTEMS

www.lupine.de

Wilma TL

Wilma TL Set



OWNERS MANUAL

Wilma TL

Safety instructions:

Warning! Avoid looking directly into the light emitted by the light or shining the light into your own eyes or the eyes of another person. If the light accidentally shines into your eyes, close your eyes and move your head out of the light beam. Do not use any strongly focusing optical device to look at the light beam.

In cases where the light is used in a public or commercial setting, users should be provided with training concerning the safety measures for laser light.

Carry a spare light with you at all times, as the product can potentially fail unexpectedly at any time.

Heat development:

Our Wilma TL is not a normal flashlight. With continuous operation at maximum power, the enclosure may become hot; therefore, always ensure a safe distance to flammable materials.

Caution! When operating the lamp at maximum power, the light may be dimmed after several minutes depending on the ambient temperature. This is normal and will reduce the lamp's temperature.

Water resistance:

All Wilma TL components are waterproof and can of course be used under extremely severe conditions. However, the Wilma TL light is NOT a diving lamp and is NOT suitable for use under water.

Flashlight and charger are ready for use upon delivery, however, the battery is merely partly charged.



Before seriously using your flashlight for the first time, the battery requires charging to ensure maximum capacity. For this purpose, please separate the battery tank from the flashlight head.

The power jack is located on the top of the battery tank.

→ Also refer to the Charger section on p. 12 or, in case of a special version, the separate charger manual.



Initialization & voltage display:

When the lamp is connected to the battery, the software will run a self test. The button will flash purple, red, blue and the lamp itself will flash **once**.

The **battery voltage** is then indicated by the blue and red LEDs, as follows:

- ➔ The blue LED flashes once for each volt; and then
- ➔ the red LED flashes once for each 1/10 of a volt.

To display the battery voltage again, unplug the light from the battery and then plug it in again.

Example: The blue LED flashes seven times and the red LED then flashes five times; this means that the measured voltage under load is 7.5 V. **This display helps you assess the actual state of the battery prior to use.**

Interpreting the voltage display:

More than 7.9 V: the battery is fully charged. 7.1 to 7.8 V: the battery needs charging or is old. 6.5 to 7 V: the battery is not ready for use.

Note: To deactivate this display, simply press the button. In other words, you needn't let the display go through its whole cycle in order to use the lamp.

The control electronics measures the voltage under load. Thus, measurements using a voltmeter will not be comparable.



Battery voltage
(once per Volt)



Battery voltage
(once per 1/10 Volt)

Switching on:

Pressing the button once will switch on the lamp at maximum power. The blue LED is on.

Switching/low beam:

A **quick push of the button** switches between power settings.

Note: When operating the lamp at maximum power, the power may be **reduced continuously** depending on the ambient temperature to avoid overheating of the LEDs and the electronics.



Lamp on

Switching off:

Hold the button down (for more than one second) to switch off the lamp.

Note: The Wilma TL control electronics not only controls high and low beam; it also protects the rechargeable battery against deep discharge and includes a low battery indicator.

Discharged battery capacity:

When you shut off the lamp, the discharged battery capacity is shown via flashing of the blue LED and then the red LED. This information can only be displayed once as it is deleted when you unplug the battery.

The ➔ **blue LED blinks once for each Ah (ampere hour); and then the ➔ red LED blinks once for each 1/10 of an Ah.**

Example: The blue LED flashes once and then the red LED flashes five times. This indicates that 1.5 Ah have been drawn from the battery.

Battery warning:

The red LED indicates the state of the battery. If the battery voltage decreases below a certain value, first, the red LED will come on (the lamp itself also flashes once) and then additionally, shortly before the capacity is entirely exhausted, it will start flashing.

Note: The battery life remaining after the red LED has come on is dependent on the overall capacity, the temperature and the battery's age. As a Li-Ion battery's voltage curve is not proportional to the remaining capacity, you will have to learn to interpret the indicators in relation to your battery.



Warning! When the battery is almost entirely discharged (the red LED has been flashing for some minutes), the lamp will flash several times (the red and the blue LED flash) and is then switched off. **Caution!**

Note: When permanently operating the lamp at 17 W, the battery warnings may be issued in very quick sequence.

Reserve power:

When the battery is discharged (the red LED has been flashing for some minutes), the red and the blue LED will flash alternately; the lamp itself also flashes. After switching the light on again (double click!), reserve power will be available. Depending on the age of the battery, some more minutes of light will be provided. To make reserve power last as long as possible, only light below 2.0 W will be provided. To indicate that reserve power has been activated, the red and the blue LED will flash in turn.

As soon as the battery is entirely discharged then, the lamp will be switched off automatically. Therefore: **Caution!**



Battery partly discharged



Very low capacity



Battery discharged
(lamp flashes)



Reserve power

Note: When operating the lamp at 0.5 W and 2.5 W exclusively, no reserve power will be available.



Warning: Do not switch on the light when the battery is discharged, as this will invariably damage the battery. Recharge the battery as soon as possible to avoid a deep discharged battery.

Explanation of LEDs:

| | | |
|---|--|---|
|  | The blue LED is on: | The lamp is on. |
|  | The red LED is on: The lamp flashes once: | A considerable amount of the battery power has been used; safe power immediately! |
|  | The red LED flashes, the lamp flashes once: | The battery is almost discharged. |
|  | The blue and the red LED flash in turn, the lamp flashes: | The battery is discharged. |
|  | The blue and the red LED flash in turn: | The lamp is running on reserve power. |

The “Power Control System” provides the possibility for individual programming. By default, the Wilma TL is set so that usually no changes are necessary.

Light levels:

You may easily select the Wilma's light levels. [By default, the Wilma TL operates in the 2-step low mode with stealth off, low start off, and double click off.](#) Several other light programs are available. They are very easy to select by simply keeping the button depressed until the button's red LED (blue LED) flashes once, twice, etc. When taking your finger off the button accordingly, the setting will be saved.

➔ [Refer to Programming scheme on p. 10/11](#)

- ➔ 2-step low mode (2 step low) 17 W + 0.5 W
- ➔ 2-step high mode (2 step high) 17 W + 2.5 W
- ➔ 2-step mode with disorientation flash (2 step Flash) 17 W + Flash (15 Hz)
- ➔ 3-step mode with SOS (3 step SOS) 17 W + 2.5 W + SOS
- ➔ 4-step mode (4 step) 17 W + 9 W + 5 W + 0.5 W
- ➔ 1-step mode (1 step) 17 W
- ➔ 3-step mode with RVLR (3 step RVLR) 17 W + 2.5 W + RVLR (3.7 Hz)
- ➔ Stealth mode on (stealth on)
- ➔ Stealth mode off (stealth off)
- ➔ Low start on (low start on)
- ➔ Low start off (low start off)
- ➔ Double click on (dbl click on)
- ➔ Double click off (dbl click off)

The lamp's electric power consumption amounts to (approximate values):

| | | | |
|-------|---------|-------|------------|
| 3 % | dimming | 0.5 W | 50 lumen |
| 15 % | dimming | 2.5 W | 230 lumen |
| 30 % | dimming | 5 W | 440 lumen |
| 55 % | dimming | 9 W | 650 lumen |
| 100 % | | 17 W | 1100 lumen |

 Default setting

Stealth mode (stealth on):

In stealth mode, initialization, voltage display, and battery warning usually indicated by the button's LEDs are partly deactivated. Of course “stealth on” does not mean that our Wilma TL will no longer give light or will even become invisible, however, LED indications will be reduced to a minimum.

Low start (low start on):

This setting enables numerous variations as the lamp will not start at maximum power as by default, but at the lowest stage.

Exception: [The SOS program and the RVLR program.](#)

Double click (dbl click on):

If this function is activated, the lamp may only be switched on with a quick double click. Useful for anybody who wants to avoid that the lamp is switched on accidentally in particular during transport (e. g. in a backpack).

Disorientation Flash:

This mode is extremely irritating and may by no means be misused.

RVLR:

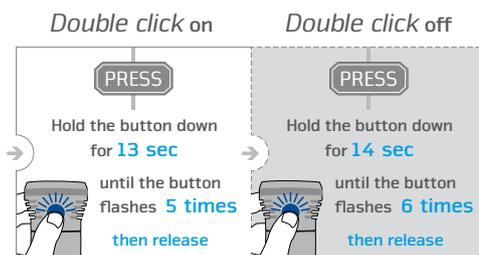
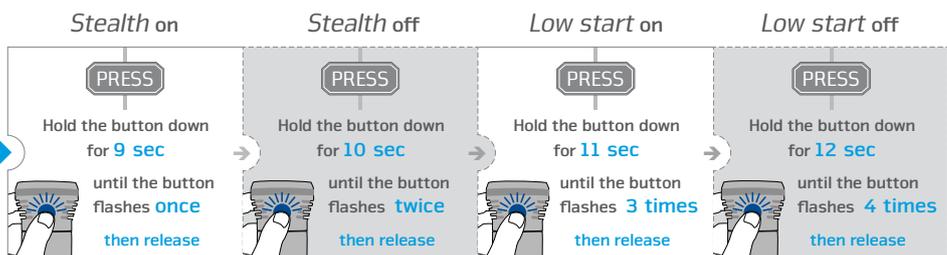
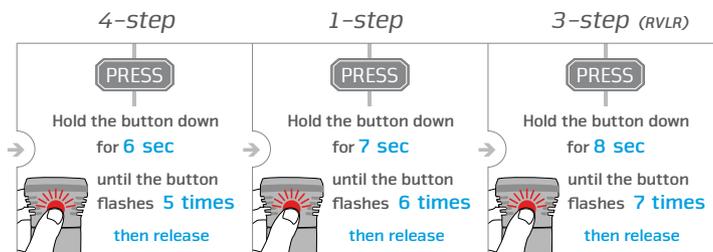
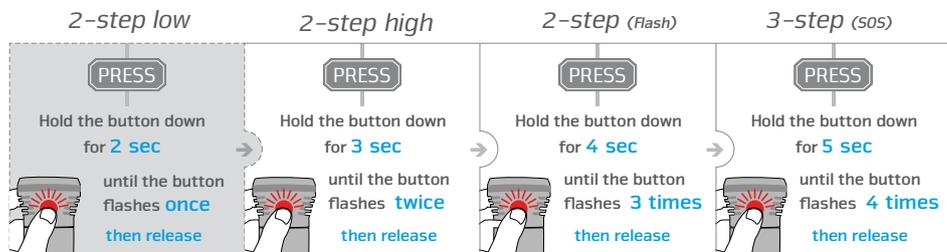
This mode includes an additional slow flash mode.

➔ [Considering all possible combinations, 56 different setting options are provided.](#)

Note: The SOS sign is an emergency signal! Use it carefully and only in case of a real emergency. Due to the lamp's high light output, this signal is visible for several miles; the operating time is several hours.

Misuse may be prosecuted!

Note! The method of counting referred to below assumes that the lamp is switched on. When starting with your lamp switched off, the lamp will flash once after approximately 2 seconds - lamp on/off.



- Red LED**
 - 1 = 2 step low
 - 2 = 2 step high
 - 3 = 2 step Flash
 - 4 = 3 step SOS
 - 5 = 4 step
 - 6 = 1 step
 - 7 = 3 step RVLR
- Blue LED**
 - 1 = stealth on
 - 2 = stealth off
 - 3 = low start on
 - 4 = low start off
 - 5 = dbl click on
 - 6 = 1 step
 - 7 = 3 step RVLR

Default setting

| | | | |
|-------|---------|-------|------------|
| 3 % | dimming | 0.5 W | 50 lumen |
| 15 % | dimming | 2.5 W | 230 lumen |
| 30 % | dimming | 5 W | 440 lumen |
| 55 % | dimming | 9 W | 650 lumen |
| 100 % | | 17 W | 1100 lumen |

Components:

Wiesel charger and three plug adapters (for continental Europe, UK, and the USA).



Connecting:

Plug the included Wiesel charger into an outlet and connect it to the battery.

Charging:

Charging starts automatically, the green LED is illuminated.

When the battery is fully charged and the charger switches to **Full**, the green LED goes off. The battery can be left plugged into the charger for an indefinite period. Although this will not damage the battery, it is not advisable for Li-Ion batteries since they do not require conservation charging. When kept in a cool place, the annual self-discharging rate for such batteries is 15 %.

Note: The green LED is only illuminated during the charging process and will not come on if a fully charged battery is plugged into the device.

LED display:

Green LED on: battery being charged
Green LED off: battery is fully charged

- **Warning!** This charger is to be used to charge rechargeable Li-Ion batteries only. It is NOT suitable for charging NiMH batteries!
- **Do NOT use non-rechargeable batteries. – Risk of explosion!**
- This charger may be opened **ONLY** by the manufacturer!

Holster:

Leather holster with magnetic latch.



Attaching the holster:

The holster may be adjusted to three different belt widths. Open the push button and insert the strap into the respective loop.

Opening the holster:

To open the holster, pull the magnetic latch **up** (not to the side or away from the body).



Handlebar mounting:

Use the flexible rubber ring to quickly and easily mount the lamp to all thinner handlebars or other similarly shaped objects.

How to mount the lamp on a handlebar is also demonstrated in a video provided on our website in the support section!



Lateral adjustment:

To adjust the lamp to freeride or downhill handlebars, you may rotate the handlebar mount by 30° to either side. Always ensure to loosen the handlebar mount screw if you want to rotate the lamp.



Simply use an Allen key to quickly attach the handlebar mount to the flashlight.

Important: Always make sure to place the included o-ring between flashlight and handlebar mount.

For particularly thick handlebars, it is recommended to use the included larger o-ring.

Note: Upon delivery, the ring for standard handlebars is attached to the handlebar mount. To be able to mount the lamp to oversized handlebars, replace the o-ring with the larger one.



1

2



Cleaning:

Only clean the lamp when it is fully assembled. If required, use warm water and add some mild dishwashing detergent.

Transport:

Caution! Always separate the battery from the lamp!

Otherwise, the small amount of power used by the electronics will discharge the battery. Furthermore, the lamp may be switched on accidentally. The uncontrolled heat buildup could cause a fire or melt adjacent plastic material.

Storage:

When the lamp will not be used for a longer period of time, fully charge the battery and leave it connected to the charger. Choose a cool, dry place for storage (basement etc.).

Opening the lamp housing:

Note! The lamp housing may be opened for installing an upgrade kit or a lens.

Open the lamp housing's front screw-on cover. Hold the rear of the lamp with one hand while rotating the front cover to the left (counterclockwise) with the other hand. Once you have removed the cover, you will see the 4-array lens. Please avoid touching the lenses directly.

Closing the lamp housing:

Check to ensure that the o-ring on the rear of the housing is correctly positioned. The housing will only be waterproof if its o-ring is intact. After completing this check, carefully screw down the housing cover. **Important!** The thread must always run smoothly, otherwise, screw off the cover again immediately and try again. The fine thread will not excuse any mishandling - therefore, be extremely careful! Fully screw down the cover.

| Problem: | Cause: | Solution: |
|---|---|---|
| The light does not come on and the button's LEDs do not flash when the flashlight head is connected to the battery. | → Deep discharged battery. | → Charge the battery. |
| | → Battery not or not properly connected to the light head. Faulty LED unit. | → Properly screw on the flash light head. |
| The power LEDs do not come on, the button's LEDs flash when the flashlight head is connected to the battery. | → Faulty LED unit. | → Replace the LED unit. |
| The battery life is too short. | → Discharged battery. | → Charge the battery. |
| | → Old battery. | → Replace the battery. |
| | → Very low temperatures. | → Keep the battery warm. |
| | → Faulty charger. | → Replace the charger. |

Weight:

Wilma TL: 219 g incl. battery

**Light output:****Battery life:**

| | | | |
|-------|--------|------------|-----------------|
| 17 W | 100 %: | 1100 lumen | 1 hour |
| 9 W | 55 %: | 650 lumen | 2 hours |
| 5 W | 30 %: | 440 lumen | 3 hours 30 min. |
| 2.5 W | 15 %: | 230 lumen | 7 hours |
| 0.5 W | 3 %: | 50 lumen | 40 hours |

Battery life may vary depending on battery age, condition, and temperature.

**Charging time:**

3 hours

Battery capacity/nominal voltage:

2.5 Ah/7.2 V Li-Ion

Lens beam angle:

15°

Operating temperature:

-25 °C bis +70 °C

Wiesel charger:

Input voltage: 100 – 240 V~, 50 – 60 Hz
 Charging current: up to 1.2 A
 Compatible batteries: Li-Ion 7.2 V
 Display: charging control via one LED
 Plug adapters: D/Euro, GB, USA

Ah = Ampere-hours

lm (lumen) = lighting current unit *

* Usually differentiated in measured and calculated values. Calculated values often differ considerably from the actual light output. Our lumen values are measured in a calibrated integrating sphere.

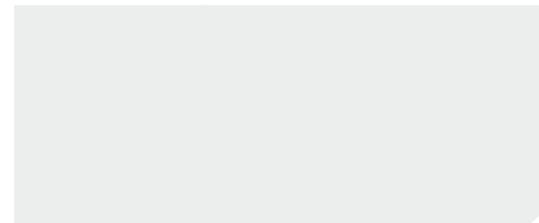


The laws governing the allowable application domain for this lighting system may vary from one country to another. We recommend that you inform yourself about the relevant laws in this domain in your country.

Warranty:

The product's two year warranty applies to all components, as well as any manufacturing defect. The warranty does not include the battery, however. In addition, any modification or improper use of the product will void the warranty.

Purchase date/Dealer stamp





www.lupine.de

Lupine Lighting Systems GmbH
Winnberger Weg 11
92318 Neumarkt
Germany

Phone: +49 (0)91 81 - 50 94 90
Fax: +49 (0)91 81 - 50 94 915
E-Mail: info@lupine.de