MECHFORCE®

USER MANUAL

FOR MECHFORCE MECHTORCH EDC FLASHLIGHT, TITANIUM, TURBO

⚠ WARNING: THIS FLASHLIGHT IS RECOMMENDED USE FOR ADULT OR UNDER ADULT SUPERVISION.

⚠ WARNING: THIS FLASHLIGHT IS A HIGH-INTENSITY LIGHTING DEVICE THAT IS CAPABLE OF CAUSING EYE DAMAGE TO THE USER, OTHERS OR ANIMALS. AVOID SHINING THE FLASHLIGHT DIRECTLY INTO ANYONE'S EYES.

⚠ WARNING: THIS FLASHLIGHT IS CAPABLE OF EMITTING INTENSE HEAT WHEN TURNING ON FOR A LONG PERIOD OF TIME. AVOID TOUCHING THE FRONT PART OF THE FLASHLIGHT IF POSSIBLE.

⚠ WARNING: THIS FLASHLIGHT IS SO POWERFUL THAT IT CAN CAUSE A FIRE WHEN HOLDING IT ONTO FLAMMABLE MATERIALS SUCH AS PAPER, FABRIC, CARDBOARD, ETC. FOR A LONG PERIOD OF TIME. AVOID SHINNING ON FLAMMABLE MATERIALS.

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USE ONLY QUALITY 18350 BATTERY FOR THIS FLASHLIGHT.

DO NOT USE OTHER SIZE BATTERIES. SOME BATTERIES SUCH AS MODEL 123, 16430, ETC CAN PHYSICALLY FIT INTO THIS LIGHT BUT THEY DO NOT PROVIDE THE REQUIRED VOLTAGE TO DRIVE THE LIGHT.

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SPECIFICATIONS:

- LEDs: 3X Nichia Natural White 219CT LEDs mounted on copper PCB
- Lens: Carclo 10507 LED Optic
- Glass: Hardened dual AR coated, 99% transmittance Japanese glass
- Green GID Shim included (Glow in the dark)
- Driver: DrJones H17Fx FET
- Waterproof IPX7 rated
- Battery: Single 18350
- Dual QLITE spring, shock proof suspension design
- Output: Maximum 1,300 Lumens
- Material: Full Titanium alloy including, front cap, radiator body, battery tube and clip.
- Surface finish: Stonewashed
- 3D CNC machined titanium pocket clip
- Weight: 4.0 OZ with battery inside
- Design and assembled in USA

BATTERY INSTALLATION:

A single battery 18350 is required to operate the light. Position the positive side of the battery to the front end of the light as shown in the image below.
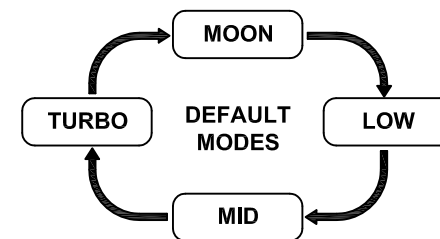
Both flat top and button top 18350 batteries are compatible with this model due to the dual spring anti-shock design.
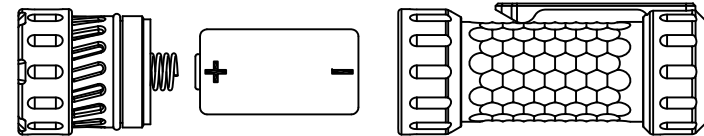
FLASHLIGHT OPERATION:

Fully press the rubber button on that back to turn on the light and fully press again to turn it off.

To change modes, first turn on the light by fully press the button then tap (half press). Keep tapping the button will cycle through the four modes shown as below.

MOON → LOW → MID → TURBO → (MOON) — DEFAULT MODES

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PROGRAMMING:

To enter the programming mode, select a mode and use it for at least a second. That mode is then the selected mode for some of the actions below.

Then enter programming mode by 8 rapid taps (half-presses; the light must be <0.2s on each time). You have to be quite fast, however it's no problem if you tap a few times more.

Shortly after those rapid taps a blinking signal will be shown. This serves two purposes: It indicates that the light is now in its programming mode and awaits further input, and it also serves as battery level indicator: The number of blinks indicates battery voltage, about one blink for every 0.12V above 3.0V without load (~10 is full (4.2V), ~4 is pretty empty). If you let them pass without tapping the button again, the programming mode is exited without any change.

If you want to change the configuration, you need to 'input' more taps while the blinking signal is active, the number of taps specifies the action. Note that the timing is more relaxed in the programming mode; you have to be swift and uninterrupted, but by far not as rapid as the 8 taps above. However you must hit the exact number of taps.

Some items in the programming menu have a submenu, indicated by a different blinking signal. You need to enter a another sequence of taps then. Once you entered the programming mode (by 8 rapid taps) and see it's signal, tap the button a number of times to do the following:

1 tap: Mode lock; lock the selected mode (see above). If locked, unlock.

2 taps: Switch between the two groups (also lifts a mode lock).

3 taps: Set brightness. The light will ramp the brightness up and down twice in 24 visually linear steps: From #2 (moonlight) to #22 (100%) the output doubles every 2 steps, #1 (firefly) is even lower, #23 if half-turbo and #24 is full turbo. Tap once when the desired brightness is reached to change the selected mode to this brightness.

4 taps: Enter the strobe/blink submenu, another sequence of 1-4 taps selects the special lighting function:

1 tap: constant brightness (normal mode).

2 taps: strobe (fast and disorienting).

3 taps: beacon (a short blink every 4s).

4 taps: double-pulse blink with oscillating brightness, i.e. does not blink on and off, but instead oscillates between high and low brightness (so the light is never off then). Not going off allows better estimation of your position/distance, while the blinking catches attention. This function is intended for cycling purposes (being seen).

All those functions can be combined with any brightness, and changing the function will not change the brightness.

5 taps: Add/Delete submenu, another sequence of 1 or 2 taps chooses between add or delete a mode t/from the active mode group:

1 tap: add a mode. The new mode is inserted at the position of the selected mode. Example: If you have 3 modes, L/M/H (with M selected), then add a mode, the result is L/M/M/H, i.e. the selected mode is doubled, and the first of them is selected. It can then be changed by entering the config menu again.

2 taps: delete the current mode from the group.

6 taps: memory subenu, another sequence of 1-3 taps selects the memory type for the active group:

1 tap: Set the memory type to no-memory.

2 taps: Set the memory type to classic memory (cycle through all modes).

3 taps: Set the memory type to short-cycle memory (after memory kicked in, skip to first mode; see below).

7 taps: Temperature submenu, another sequence of 1-12 taps selects the set temperature (default is 60°C):

1:off 2:40°C 3:45°C 4:50°C 5:55°C 6:60°C 7:65°C 8:70°C 9:75°C 10:80°C 11:85°C 12:90°C

10 taps: Reset all configuration options to their factory defaults.

12 taps: Toggle prog-lock, disables programming the light. Mode lock and switching between mode groups (1 or 2 taps in the config menu) will still work, also 12 taps again to unlock, but all other configure options won't.

STEP	1	2	3	4	5	6	7	8	9	10	11	12	13
CURRENT (mA)	1.5	3.0	4.2	5.9	8.4	12	17	24	34	48	67	95	134
CURRENT (%)	0.05	0.1	0.14	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2	3	5

STEP	14	15	16	17	18	19	20	21	22	23	24
CURRENT (mA)	190	270	380	540	760	1075	1520	2150	3040	more	even more
CURRENT (%)	7	9	13	18	25	35	71	71	100	semi-turbo	turbo

The steps 1 to 16 strongly profit form the higher efficiency at true lower currents, the luminous flux is thus a bit higher than the percentage values indicate.

The lowest values depend on hardware manufacturing variations and thus vary.