

Basic Operation

1. To operate your light we must distinguish between a **press** and a **click**.
2. Momentary activation is achieved with a light button **press**. The light turns on, but the button has not yet **clicked** into a latched state.
3. A button **click** is audible, tactile, and occurs when the button is fully depressed. A **click** latches the light in the “on” state and will not turn off until the button is **clicked** again. You cannot change modes when the light is on.
4. When the light is OFF, modes are accessed by repeatedly **pressing** the button and should be cycled without **clicking** the button. When the light is ON, a single OFF/ON cycle (**2 clicks**) changes to the next mode.
5. The light “remembers” the last output mode selected by the user. The current mode is stored in memory when the light is on or off for more than 1 second.
6. **Double pressing** the button (**very quickly**) enables a “Burst” mode that delivers 100% power. Using full power will cause the light to get VERY hot in just a few minutes. This mode has no memory. See the programming guide for more info.

Low Battery Behavior

1. When the battery is fully depleted (3.0 Volts or less) the light will cut power by 50% and blink once every 5 seconds. This is an emergency mode. Continued use may do permanent damage to the battery.
2. Charge your battery early and often; please do not wait until it is depleted.

Battery Installation

1. The battery should be installed with the **(+)** terminal towards the head.
2. When removing the battery, always separate the head from the body. Changing the battery through the tail-cap can damage the switch spring.
3. If your light does not turn on, you probably put the battery in backwards.

Charging the Li-Ion Battery

1. Recharging the battery before it's empty prolongs its useful life. Lithium Ion cells have no "memory" effect so you may recharge at any time.
2. In addition, fully depleting the battery reduces the cell's overall capacity.
3. When the status light on the Flex Charger is steady **RED** the battery is **charging**. When it's **GREEN** it's **charged**. The Flex Charger can automatically detect battery polarity so there is no +/- orientation.

Maintenance

1. Body/Tail Threads: Clean the threads with an old toothbrush. Use Windex if threads develop a heavy black film. Apply a few drops of Nano-Oil.
2. Head Threads: Mash the end of a Q-tip flat with a pair of pliers. This allows the Q-tip to slip between the threads and the metal post that holds the LED driver. Run the Q-tip clockwise several turns and then back it out. Allow time for the Windex to dry before oiling the threads and re-assembling the light.
3. O-rings: Apply a few drops of Nano-Oil when twisting action becomes stiff.
4. Window: Clean with Windex and a soft cloth. The glass has a special anti-reflective coating and **can** be damaged. Use caution.

!!! WARNINGS !!!

1. This light is not a toy! Children should never use it without supervision.
2. Your light may get extremely hot on full power. This is normal. If it becomes too hot to hold, immediately select a lower power level to prevent damage.
3. Never operate your light on full power if left unattended.
4. Do not expose the lithium battery to high ambient temperatures !!!



Advanced Features:

1. **User Programmable:** Everyone has a different idea about the best mode configuration for a flashlight. Now you get to decide for yourself. Enjoy.
2. **2 Mode Groups:** Not one, but two complete mode groups are stored in memory. Each group can be programmed with 1-7 modes and 22 brightness settings.
3. **Digital Drop Protection:** A Prometheus first! Icarus software detects a drop and prevents an accidental mode change that would normally result from the jolt.
4. **Thermal Protection:** To avoid overheating, Icarus smoothly ramps down power in order to maintain a preset chip temperature. The default setting is 60°C, but this threshold is user adjustable. It can also be completely disabled (not recommended)
5. **Mode Memory:** Choose no memory, classic “last mode” memory, or a “hybrid” memory that always reverts to the first mode after mode change is detected.
6. **Direct Access Mode:** Rapidly double pressing the power button accesses a stand-alone (independent) mode. Default is 100% output (Burst), but the DA Mode can be programmed with any function or output level. This mode has no memory.

Default Settings

Group 1 - Basic: (default)

3 mode (2%, 12%, 70%) + 100% DA (Burst) + Classic Memory

Group 2 - Advanced:

4 mode (.09%, 2%, 12%, 70%) + 100% DA (Burst) + Hybrid Memory

Programming Interface

Use a button **press** during programming, not a click. Enter programming mode with [8] rapid button presses. Hold “on” at last press. Steady blinking = ready for programming input. After final input: 2 blinks = confirmation, 6 blinks = input error.



Programming Guide

Basic Functions

[8-1] **Lock Current Mode** (makes current mode persistent, no other modes)

[8-2] **Switch Mode Group** (changes between mode groups #1 & #2)

[8-3+hold] **Set Brightness for Current Mode** (ramps up and down in 22 steps. When desired brightness is reached, release button and immediately press to save level.)

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|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|-----|
| level | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| % | .04 | .09 | .12 | .18 | .25 | .35 | .50 | .70 | 1.0 | 1.5 | 2 | 3 | 4 | 6 | 8 | 12 | 17 | 25 | 35 | 50 | 70 | 100 |

Set Mode Type

[8-4-1] **Constant Brightness** (always on)

[8-4-2] **Strobe** (high frequency blink)

[8-4-3] **Beacon** (blink with 4 second delay)

[8-4-4] **SOS** (international distress signal)

Add or Delete Modes

[8-5-1] **Add Mode** (insert one mode after current mode)

[8-5-2] **Delete Mode** (current mode is deleted)

Set Memory Type

[8-6-1] **No Memory** (starts on first mode every time)

[8-6-2] **Classic Memory** (remembers current mode & advances to next mode)

[8-6-3] **Hybrid Memory** (remembers current mode & returns to first mode)

Set Overheat Temperature in °C

[8-7-[X]] (default = 60°C) [1] OFF [2] 40 [3] 50 [4] 60 [5] 70 [6] 80

Reset and Lock

[8-10] **Factory Reset** (returns all settings to factory default)

[8-12] **Program Lock/Unlock** (disable or enable programming input)

Programming Tutorial (video) : www.darksucks.com/icarus.html

