



# USER MANUAL LS-A6D FLASHLIGHT

LS-A6D is a firefighter's dual beam flashlight with a warm white light in metal waterproof body.

ANSI / NEMA FL1 SPECIFICATIONS									
MODES	HIGH			MEDIUM			LOW		
RUNTIME*	Spot LED	Flood LED	Both	Spot LED	Flood LED	Both	Spot LED	Flood LED	Both
	4 h	4 h	4 h	14 h	14 h	10 h	56 h	56 h	40 h
CAPABILITY	20 W (max)								
LIGHT OUTPUT	1353 lm (max)								
DISTANCE	443 m (max)								
INTENSITY	49 104 cd (max)								
COLOR TEMPERATURE	3100 K (±5%)								
BEAM ANGLE	min – 4.9°, max – 75.4°								
IMPACT RESISTANCE	1 m								
WATERPROOF	IP 67, underwater 1 m								
MATERIAL	Aircraft-grade aluminum (Avial)								
BATTERY TYPE	2 Li-ion batteries 18650, 2 Li-ion batteries 21700 or 6 batteries AAA								
SWITCH	Spot-button for each LED on the head of the flashlight								
SIZE AND WEIGHT	148 mm x 35 mm x 33 mm, weight 140 g								
ACCESSORIES	Leather gear strap, battery cassettes, battery tubes, spare silicone o-rings								

\*Measured with 21700 (5000 mAh) rechargeable batteries

## MOUNTING

To secure the LS-A6D flashlight to firefighter turnout gear, use the metal carabiner attached to the device. If the RT-100 retractor is included, install it onto the leather strap for turnout gear according to the installation instructions. The built-in clip allows you to fix the flashlight in position and direct the beam forward.

To secure the LS-A6D flashlight to a helmet or the head, use the strap with the silicone flashlight mount.



## OPERATING

LS-A6D has two light sources that can work together or separately. Each of them has three operating modes: full power mode, medium power mode and low power mode.

**To turn on/off** the flashlight **press and release** the button.

**To change** the operating mode **press and hold** the button for 2 seconds.

In high power mode, the flashlight emits significant heat, causing the body to warm up — this is normal operation.

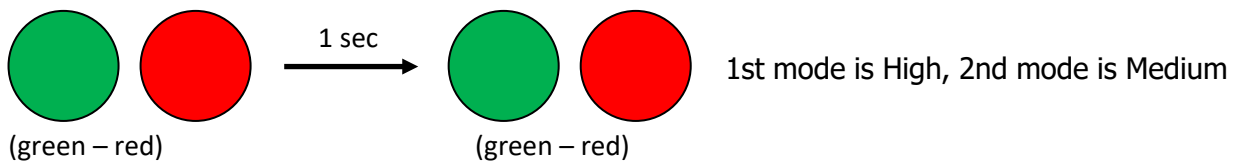
The bottom light source features an additional **Turbo mode**. To activate it, triple-click the side button within one second after turning on the bottom source.

**Warning!** In Turbo mode, the bottom light source generates intense heat, which may melt the lens or ignite nearby objects. Use Turbo mode only when the lens is clean and never leave the operating flashlight unattended!

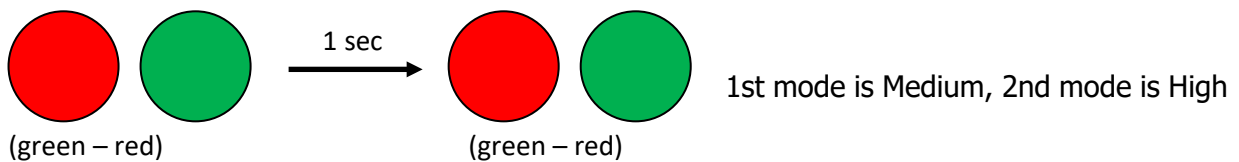
By default, the flashlight uses the following mode sequence: **High, Medium, Low**. To extend battery life, you can change the sequence to: **Medium, High, Low**. You can also enable an automatic step-down to **Low** mode when the batteries are low.

To program the flashlight:

1. **Remove the batteries** from the flashlight.
2. **Press and hold** any button on the flashlight.
3. **While holding the button**, insert any single battery (you do not need to screw the cap on fully, simply pressing it against the body is enough). The indicators will begin to flash, signaling that the flashlight has entered programming mode. You may now release the button.
4. **To set High** as the default starting mode, press and release the top button. The indicator colors will signal the mode sequence:

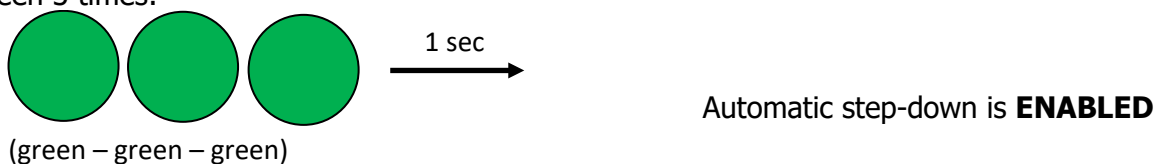


**To set Medium** as the default starting mode, press and release the side button. The indicator colors will signal the mode sequence:

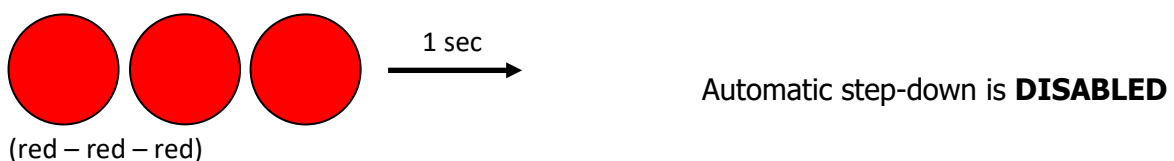


*Fig. 1*

5. **To toggle the automatic step-down** to Low mode **press and hold the top button**. The indicator will flash green 3 times:



**Press and hold the side button**. The indicator will flash red 3 times:



*Fig. 2*

After selection, the button will continue to show the mode sequence (as per Fig. 1). You can then release the button.

6. **To exit programming mode**, remove the battery.

## ADVANCED PROGRAMMING GUIDE

The flashlight can be used with basic settings or advanced configurations.

To enable advanced settings and modes:

1. **Enter Programming Mode:** Remove the battery. Hold the top button while re-inserting the battery.
2. **Toggle Advanced Settings:** Quickly press the top button 10 times. The button will light up green for 1 second to confirm activation.



**Video Guide**

**To return to basic mode:** Press the side button 10 times in programming mode; it will light up red for 1 second.

**To factory reset:** Hold both buttons for 10 seconds while in programming mode.

Advanced settings allow you to configure parameters for each LED in every mode and set the total number of active modes (up to 7 modes per LED). Parameters are configured across three consecutive levels:

1. Select the **LED** (Upper or Lower).
2. Select the **mode number** (from 1 to 7).
3. Select a **parameter** and set its **value** (8 parameters available).

While in advanced programming mode, use the following button combinations:

1. **Next parameter/value:** Press top button.
2. **Previous parameter/value:** Press side button.
3. **Enter (Select):** Hold top button and short-press side button.
4. **Exit (Back):** Hold side button and short-press top button.

**Programming is performed as follows:**

1. **Enter Programming Mode:** Insert the battery while holding down the top power button.
2. **Activate Advanced Settings:** Briefly press the top button 10 times. The button will light up green for 1 second, confirming that advanced settings and modes are now active.
3. **Select the LED:** Press either the top or side button to select the desired LED. To proceed to mode selection: press and hold the top button, then briefly press the side button.
4. **Select the Mode Number (1 to 7):** Use the top or side buttons to choose a mode number (Default is 1). The selected LED button will indicate the mode number by flashing (100 ms flashes every 3 seconds). To proceed to **parameter selection:** press and hold the top button, then briefly press the side button. **To go back** to the LED selection menu: press and hold the side button, then briefly press the top button.
5. **Select a Parameter:** Choose one of the eight parameters according to the "Parameters and Values" table. Press the top button to move to the **next parameter** or the side button to move to the **previous** one. **To edit** the value of the selected parameter: press and hold the top button, then briefly press the side button. **To go back** to the mode selection menu: press and hold the side button, then briefly press the top button.
6. **Modify Parameter Values:** Change the value by pressing the top button (next value in the table) or the side button (previous value). **To save** the value and return to the parameter selection menu: press and hold the side button, then briefly press the top button.
7. **Exit Programming:** To exit and save all settings, simply remove the battery.



## POWER SUPPLY

The flashlight is compatible with any of the power sources listed below.

**Remove the plastic tube** from the flashlight housing to use the following battery:

- 21700 Li-ion battery



**Insert the plastic tube** into the flashlight housing to use the following battery:

- 18650 Li-ion battery



**Remove the plastic tube and insert the battery carrier** to use the following batteries:

- AAA batteries (3 pcs)
- AAA NiCd or NiMH rechargeable batteries (3 pcs)



## CHARGER

The charger is powered from line supply of 100 to 240 V. Empty 5000 mAh batteries can be recharged in about 7 hours. The green light of the indicators on the buttons is a signal of completion of charging process.



## COLOR INDICATION

LS-A6D has a battery charge indicator. The indicators are located on the power buttons. As the battery charge decreases the indicators change their color in the following order: green, orange, red, strobing red.

In High power mode, the battery consumes energy intensively, causing its voltage to drop. When switching to Low power mode, the battery voltage may recover, resulting in a higher reported charge level and the indicator changing color in reverse order — this is normal operation.

## WARNINGS

- Always follow the instructions from this manual.
- Do not reverse battery polarity.
- Do not simultaneously use different power sources i.e. old ones with new ones, charged with discharged. Do not simultaneously use different types of batteries, as the element with less capacity can be damaged.
- Use only the standard battery charger to charge the battery.
- Do not modify or recast the flashlight and its components as it may deprive you of the warranty.
- Do not allow water or any other liquid to leak into the flashlight.
- Do not aim a switched-on flashlight at people's or animals' eyes – it can cause temporary blindness.
- Do not allow children to use the flashlight without your assistance.

The producer will not be liable for any harm done to the user if it was caused by improper use of the product.

## RULES OF TRANSPORTATION AND STORAGE

- Products can be transported by any transportation mode provided that they are protected from mechanical damage and the effects of atmospheric precipitation.
- Packed or loose products should be stored in closed, dry, heated spaces, under conditions that exclude oil-product and corrosive impact, at a distance no less than 1 m away from heating elements.
- Do not store the flashlight for more than 6 months without recharging the batteries. After 6 months of storage, recharge the batteries.

## WARRANTY

We provide free warranty for 12 months. The manufacturer guarantees proper operating of the flashlight during warranty period in case of compliance with the rules of storage and operation. The product has a service life of at least 24 months from the date of putting into operation.

Guarantee does not extend to damage during:

1. Improper usage.
2. Attempts to modify or repair the flashlight by nonqualified specialists.
3. Longtime application in chlorinated or polluted water, or other liquids (other than water).
4. High temperatures ( $>150^{\circ}\text{C}$ ) and chemicals' exposure (including the exposure of liquid from defected batteries).
5. Usage of low-quality batteries.

**Country of origin: Russian Federation**