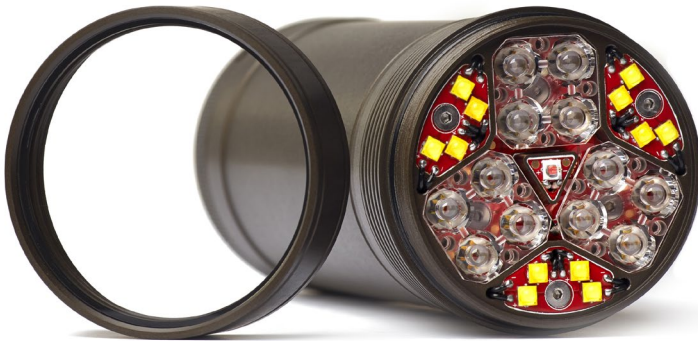*Important notice!*
It is obligatory to register the flashlight
warranty on manufacturer's website!

Left-hand thread of the light blind
(screw in a counter-clockwise direction)

UNDERWATER FLASHLIGHT
INSTRUCTION MANUAL
HUB

HunterProLight-4 HUB flashlight is a high-tech product with installed complex electronic pcb and components. For reliable and long-term operation of the flashlight, read the instruction manual carefully.

Attention!!!

- ✓ We recommend to contact manufacturer at *hunterprolight@gmail.com* for advising and reprogramming.

Intended use

- ✓ **HunterProLight-4 HUB** flashlight is designed to light objects, both in the air and under water. Maximum tested immersion depth is **70 meters**.

Contents of package

- HunterProLight-4 HUB flashlight – **1 pcs**.;
- Batteries (Li-Ion) 21700 / 5000 mAh – **4 pcs**.;
- Charger 16.8 V / 1.8 A – **1 pcs**.;
- SPTA (spare parts) – **1 pcs**.;
- Oil 10 grams - **1 pcs**.;
- Instruction manual - **1 pcs**.

Technical characteristics

- Body material / **D16T alloy;**
- Coating / **Solid anode HA II** / **III;**
- Beam / **Carclo Optics (24 deg.) – 3 pcs.;**
- Light source / **Cluster of LEDs – 25 pcs.;**
- Electric power / **max. 60 Watts (switched);**
- Light intensity Center / **27000 Cd.;**
- Light intensity Halo / **7000 Lm.;**
- Colour temperature Center / **3000K** / **4000K** / **5000K;**
- Colour temperature Halo   / **3000K** / **4000K** / **5000K;**
- Light control / **Microcontroller;**
- Li-Ion batteries / **21700** / **5000 mAh.** / **(10A) - 4 pcs.;**
- Battery protection / **Program;**
- Switch / **Magnetic button without fixation;**
- Weight with batteries / **700 g.;**
- Weight without batteries / **430 g.;**
- Size / **length: 164 mm.;**
  / **diameter: 55 mm. handle;**
  / **diameter: 59 mm. head.**

Components of the flashlight

- Blind;
- Acrylic glass;
- Heat removal of LEDs;
- Cluster of LEDs (designed by *hunterprolight*);
- Driver V1.9 (designed by *hunterprolight*);
- Optics Carclo (24 deg.) – 3 pcs.;
- Case for batteries (designed by *hunterprolight*);
- Batteries (Li-Ion) without protection – 4 pcs. type 21700 / 5000 mAh / (10 A);
- Body;
- Magnetic back button;
- Sealing: O-ring (49x2) – 1 pcs., (48x2) – 1 pcs.,

Principles of operation

- ✓ As a source of light serves cluster of **24 Cree** LEDs with total power of **60 Watts**, and **1 Amber** LED - used as informational and for the **MoonLight** mode. It is powered by an electronic LED driver **V1.9** (produced by *hunterprolight*). It is managed with a non-fixed button contact.

- ✓ The driver is powered by four batteries connected in series. Batteries are replaced individually by the user. The flashlight is designed for use at temperatures from **-20°C** to **+50°C**. When the ambient temperature decreases, the battery capacity decreases. This should be taken into account when calculating the estimated working time. At increased water (air) temperature, it may be difficult to remove heat from LEDs and the driver at capacities close to maximum. In this case, the protection will be activated and brightness will automatically decrease to a safe level, or the second level of thermal protection will be activated and the flashlight will be automatically locked.

Functional features

- ✓ Flashlight brightness adjustment **(5 or 8 levels of brightness)**;

- ✓ Programming and selection of different glow temperature versions **(15 glow scenarios)**;

- ✓ Selection of glow brightness at intermediate levels when the light is turned on from lower to higher or from higher to lower light levels;

- ✓ Distribution of glow power of the flashlight between Center and Halo **(2 control options)**;

- ✓ Choosing preset MoonLight modes **(4 scenarios, turning off with timer or turning off completely)**;

- ✓ Choosing glow power of the **MoonLight (4 levels)**;

- ✓ Timer used for smooth lightning **(5, 10, 15, 20, 25 sec.)**;

- ✓ Alert with commands **Us-Them**, **Amber-beacon**, **Strobo**–notification about battery discharge status **(holding or pressing the button)**;

- ✓ Warning about half-discharged battery **(single announcement)**;

✓ Warning about low battery **(double announcement);**

✓ Warning about battery discharge **(3, 6, 9 times, continuously or off)** only after the first shutdown of the flashlight;

✓ Monitor the battery charge status;

✓ Automatically switch to emergency-waiting glow **(corresponds to previously used MoonLight)** when the battery is deeply discharged;

✓ Automatically turned off when the battery is deeply discharged;

✓ Automatic block of flashlight in **(5, 10, 15, 30 minutes, 1, 2, 4, 8 hours)** when the flashlight is turned off – **the Don't forgetter**;

✓ Switching the flashlight off automatically in **(1, 2, 3, 5, 10, 15, 30 minutes, 1, 2, 4, 8 hours)** when the flashlight is in the **MoonLight** mode;

✓ Automatically turned off when the battery is critically discharged **(sharp flash alert when the button is pressed)**;

- ✓ Turns off when the flashlight is on after time of non-use is set **(5, 10, 15, 30 minutes, 1, 2, 4, 8 hours)**;

- ✓ Heat removal temperature control in order to ensure a safe temperature mode of the LEDs **(two levels of thermal protection)**;

- ✓ Flashlight is locked if critically overheated **(thermal blocking function)**;

- ✓ Adjustable speed of brightness level selection **(from 0.3-1.0 seconds, with 0.1 seconds interval)**;

- ✓ Save and restore an individual user profile;

- ✓ Reset the flashlight to factory settings;

- ✓ Flashlight is automatically locked when the batteries are first installed in the case **(prevents accidental switching on)**.

- ✓ Flashlight software reload if necessary, user settings saved.

- ✓ Flashlight switch is locked from accidental activation.

Flashlight control, list of control commands

✓ The flashlight is controlled by magnetic button, for informative execution of commands we recommend half-pressing **Click** letting it get back itself. Activation and deactivation is carried out **by Clicking** the button.

✓ **Click** - short pressing **(less than 0.3 seconds)**, **Press** - long pressing and hold **(more than 0.6 seconds)**.

✓ Hidden commands are called for service setting the flashlight, accompanied by a 4-second alerts (or glow) Orange **(Amber)** LED.

Magnetic button

✓ Designed magnetic button adjusted on the basis of **Hall sensor**: without mechanical contacts, complete absence of wear, high switching frequency without rattling, resistant to temperature changes, this solution allows more informative control of flashlight.

✓ LED installed on the battery case of the flashlight signals about operating condition of the button when a magnetic field is detected **(if the magnet is brought near)**.

✓ Rotary switch **(3 positions)** is installed on batteries case of the flashlight and allows to adjust depth of magnetic button activation.

UP – upper activation of the button.
MID – middle activation of the button **(default value)**.
DN – deep activation of the button.

You can change depth of the button activation with miniature screwdriver without applying physical force.

Control commands

The flashlight is off:

- ✓ **1 Click** (less than 0.3 seconds) – Turning on the flashlight;

- ✓ **1 Long Click** (more than 0.3, but less than 0.6 seconds - button accompaniment) – flashlight silently switches on at the last glow level;

- ✓ **Press** – Turning the flashlight at minimum - maximum glow level;

- ✓ **Press + 4 seconds hold** – Entering mode of power ratio between channels;

- ✓ **1 Click + Press** – Turning stroboscope on;

- ✓ **2 Clicks + Press + 4 seconds hold** – **MoonLight** on / off and its automatic shutdown timer;

- ✓ **More** than **15 Clicks** (very fast short presses)-reloading flashlight software.

- ✓ **3 Clicks** - flashlight unlocking;

- ✓ **More** than **15 Clicks** (very fast short presses)-reloading flashlight software.

The flashlight is on:

- ✓ **1 Click** – Turning flashlight off (switching to **MoonLight mode**);

- ✓ **Press** – Scrolling glow up or down;

- ✓ **Press** (stop at the last glow level) + **hold for 4 seconds** – on / off smooth lighting and its timer;

- ✓ **1 Click + Press** – Turning stroboscope on;

- ✓ **2 Clicks + Press** – Enumeration of working glow scenarios;

- ✓ **3 Clicks** – Flashlight blocking;

- ✓ **3 Clicks + Press + 4 second hold** – Entering channel selector to select operating scenarios;

- ✓ **4 Clicks + Press + 4 second hold** - Switching between power ratio methods;

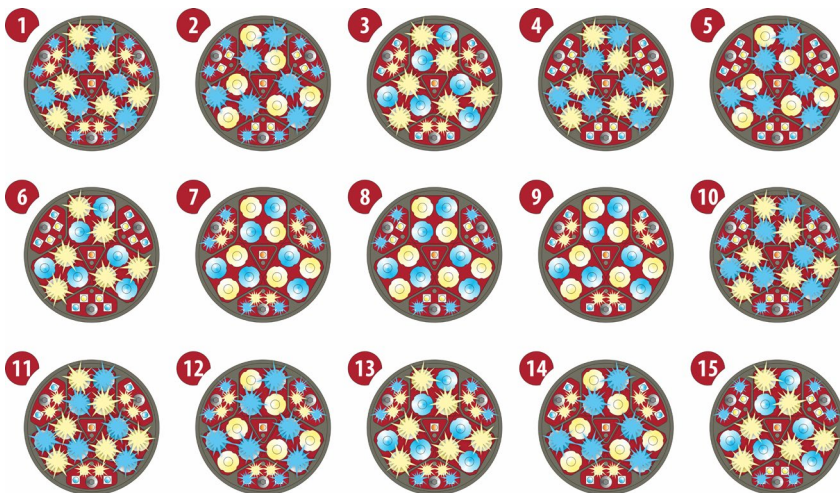✓ **More** than **15 Clicks** (very fast short presses)-reloading flashlight software.

✓ **1 Click** (less than 0.3 seconds) – Turning flashlight off;

✓ **1 Long Click** (more than 0.3, but less than 0.6 seconds - button accompaniment) – flashlight silently switches on at the last glow level;

✓ **1 Click + Press** – Turning stroboscope on;

✓ **2 Clicks** – Switching to previously used glow level;

✓ **2 Clicks + Press** – Enumeration of scenarios of glow **MoonLight**;

✓ **4 Clicks + Press** – Selection of power of **MoonLight** glow;

✓ **Press** – Turning flashlight on at minimum-maximum level of glow;

✓ **Press + 4 seconds hold** – Entering mode of power ratio between channels;

✓ **More** than **15 Clicks** (very fast short presses) – reloading the flashlight software.

Brightness adjustment

✓ When the flashlight is on, you can change the brightness by pressing and holding the **Press button**. At the same time, brightness begins to change. When the required brightness is reached, simply release the button. During further operation, the flashlight will turn on and off exactly at this level of brightness.

✓ When the flashlight is off or in **MoonLight** mode, you can press and hold the button to turn on the flashlight at minimum brightness. If you continue to hold the button, the flashlight will switch to maximum brightness in a second.

✓ To lock the flashlight button: with the flashlight on, quickly click the button three times. The driver will confirm acceptance of the command with three bright flashes of LEDs. To unlock, you just need to click the button quickly 3 times. The flashlight will turn on, the lock will be removed. The flashlight can be turned on or off without setting the lock.

Channel selector, user scenarios, glow time

✓ **Channel selector** is responsible for selection of scenarios, which allows you to select operating number of user glow scenarios out of **15** existing in desired sequence.

Channel selector of user scenarios

Only when the light is on, press **Click** 3 times shortly and hold **Press** for 4 seconds, orange **(Amber)** LED flashes exactly 4 times **(4-second hidden command)**, Halo starts announcing by changing the temperature of the flashlight - the channel selector has been entered. Each short press of **Click** allows us to select the desired scenarios in the sequence we need, thus creating a working number of user scenarios. Each repeated passage of the channel selector in a circle is announced with 10 quick alerts, which allows you to add previously missed scenarios.

Holding **Press** saves selected scenario, repeat **Press** – you exit channel selector. A working number of user scenarios are saved and available. Selection of working scenarios is available with the command: 2 short presses **Click** and hold **Press** only when the light is on.

Sorting user work scenarios

✓ Only when the flashlight is turned on, press 2 times shortly. **Click** and hold **Press**. You review previously selected glow scenarios consistently with an interval of **1.5 seconds**, if you press again and continue to hold the button, the scenarios will be reviewed in the reverse direction. After releasing the button, the selected scenario is saved as permanent. All flashlight adjustments, announcements, warnings will take place exclusively in the scenario you selected.

Glow time in different scenarios and levels +/- 5%

Center+Halo (21000 Cd.- Center / 4600 Lm.- Halo)
(Level 8) – 1 hour
(Level 7) – 1 hour 30 minutes
(Level 6) – 2 hours 10 minutes
(Level 5) – 2 hours 55 minutes
(Level 4) – 4 hours   *(super comfort)*
(Level 3) – 7 hours   *(comfort)*
(Level 2) – 11 hours
(Level 1) – 35 hours

Center (27000 Cd.)
(Level 8) – 2 hours 10 minutes
(Level 7) – 3 hours
(Level 6) – 4 hours 10 minutes
(Level 5) – 5 hours 50 minutes
(Level 4) – 7 hours 40 minutes   *(super comfort)*
(Level 3) – 13 hours   *(comfort)*
(Level 2) – 22 hours
(Level 1) – 70 hours

Halo (7000 Lm.)
(Level 8) – 1 hour
(Level 7) – 1 hour 30 minutes
(Level 6) – 2 hours 10 minutes
(Level 5) – 2 hours 55 minutes
(Level 4) – 4 hours   *(super comfort)*
(Level 3) – 7 hours   *(comfort)*
(Level 2) – 11 hours
(Level 1) – 70 hours

✓ **MoonLight** function is used as a peripheral light used for gun charging, fish manipulation, backlighting and is an intermediate between turning the flashlight on and off.

✓ When the light is on, press **Click** shortly, it will switch to **MoonLight**, the next short press turns off the flashlight and circle-wise in cycles.

✓ While in the **MoonLight** glow mode, we press **Click** two times shortly and immediately return to the switched on position of the flashlight, to the initial level of illumination and set scenario.

✓ While in **MoonLight** mode make **Long Click** (more than 0.3, but less than 0.6 seconds – **slow back up of the button**) **–** silent flashlight switching on, we immediately return to the switched on position of the flashlight to the initial level of glow and set scenario.
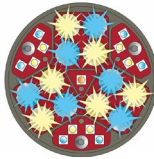
MoonLight Scenario

✓ There are 4 preset **MoonLight** scenarios:

Center + Halo   Center   Halo   Amber

✓ While in the **MoonLight** glow regime, press **Click** two times shortly and hold **Press**, it will begin to cycle through the **MoonLight** scenarios (the orange LED will be constantly lit, informing about being in **MoonLight** scenarios regime), if you make a short press of **Click** and continue to hold the button, then the cycle scenarios will go in the opposite direction. Releasing the button remembers the selected script.

Turning MoonLight on and off completely

✓ Only when the flashlight is turned off, we make 2 short presses of **Click** and hold **Press** for 4 seconds, the orange **(Amber)** LED flashes 4 times **(4-second hidden command)**, **MoonLight** should turn on and light up. Pressing again with the flashlight off, 2 short **Clicks** and holding **the Press** for 4 seconds will turn off **MoonLight.**

MoonLight Auto shutdown Timer

✓ This function is useful for fixing the time of rest on water after diving, fish manipulation and short term yourself marking in water area.

✓ The user can set **MoonLight** auto shutdown timer himself. Timer can be set only if the **MoonLight** function is activated.

✓ The flashlight is turned **off** and **MoonLight** function is not yet activated, perform 2 short presses of **Click** and hold **Press** for 4 seconds, the orange **(Amber)** LED will flash 4 times **(4-second hidden command)** it will turn **MoonLight** on, continue to hold for another 4 seconds, the LED starts to alert **1 time - 1 minute, 2 times - 2 minutes, 3 times - 3 minutes, 10 times - constant glow**, one short press of **Click** and holding **Press** changes the direction of shutdown timer in the opposite direction. When you release the button your selection will be saved, **MoonLight** will now turn off automatically according to the set timer.

✓ Turning on and off the **MoonLight** function can be done circle wisely in cycles, without resetting the automatic shutdown timer **(do not hold for another 4 seconds to reset the timer)**, previously set timer will be saved.

Selection of power of the MoonLight glow

✓ The user can choose one of the four levels of power of **MoonLight** glow himself. The choice of glow power occurs only when **MoonLight** is turned on.

✓ While in **MoonLight** regime press **Click** 4 times shortly and hold **Press** for 4 seconds, orange **(Amber)** LED will flash 4 times **(4-second hidden command)**, then you will see **MoonLight** glow powers circle wise, when you release the button your selection will be saved.
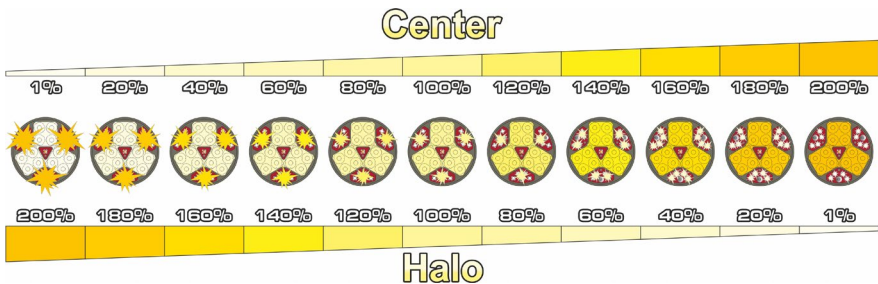
Power ratio between Center and Halo

✓ There are two options for power distribution between **Center** and **Halo**, the user can switch between options himself.

✓ Only when the light is on, we press **Click** 4 times shortly and hold **Press** for 4 seconds, orange **(Amber)** LED flashes 4 times **(4-second hidden command)**, then **one** short alert signals that flashlight was set as option **1**.

✓ Repeated 4 short presses of **Click** and holding **Press** for 4 seconds, orange (Amber) LED flashes 4 times **(4-second hidden command)**, then **two** short alerts signal that flashlight is set as option **2**.

✓ Switching power ratio options works cyclically, one by one, all previously set power ratio settings are reset to zero by channel alignment.

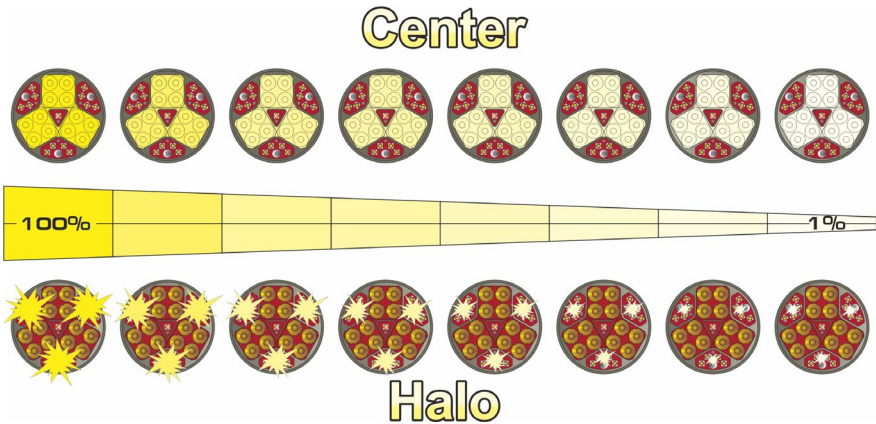**Power ratio option 1**

✓ Only when the **Center+Hole** scenario is installed *(manipulation of power ratio is impossible when the Center or Halo are lit separately)*, when the light is turned off or in the **MoonLight** mode by pressing and holding **Press button**, the light is turned on at the minimum and maximum glow level, continue to hold the button **for 4 seconds,** orange **(Amber)** LED flashes 4 times **(4-second hidden command)**, 2 alerts will be made *(equal power values)*, continue to hold the button, the transfer of the maximum glow power from **the Halo** to the **Center** will begin, a total of **5** transfer modes **(with 20% pitch)** in direction of increasing **Center** power.

✓ A short press of **Click** button and holding the **Press** button changes direction of the light power transfer in direction of increasing **Halo**, and **5** transfer modes **(with 20% pitch)**. At each passing of equal power values between **Center and Halo,** 2 alerts will be made. As soon as we release the button on any selected transfer, the flashlight immediately saves the selected value, recalculating maximum power between **Center and Halo** and returns to previously used glow level with the new changed values. Maximum power difference between **Center and Halo** is set, the flashlight can be used.

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Prg. V1.9

Power ratio option 2

✓ Only with preset **Center+Hole** scenario *(manipulation of the power ratio is impossible when the Center or Halo are lit separately)*, when the flashlight is turned off or in the **MoonLight** mode by pressing and holding **Press button**, the light is turned on at the minimum-maximum brightness level, continue to hold the button for **4 seconds,** orange **(Amber)** LED flashes 4 times **(4-second hidden command)**, 2 alerts will be made **(equal power values)**, continue holding the button, **Center** shines at the **1st** level of light and rises up to the **8th** level, after releasing the button, the selected value of the **Center's** glow power is saved.

✓ Next pressing and holding **Press** button starts raising **Halo** light from the **1st** to the **8th** level, releasing the button, selected value of **Halo** light power is saved. The flashlight automatically switches to the previously used light level and scenario, but already with the new changed values.

Center

100% → 1%

Halo

Important to know!!!
It is not possible to manipulate with ratio of powers if Center or Halo, light separately.

Smooth lighting, setting its timer, on/off.

- ✓ **Smooth lighting** is a function that allows you to: adapt the eye of the underwater hunter to diving, avoid scaring fish with sharp light, increases time of flashlight glowing.

- ✓ **Smooth lighting** occurs only when the flashlight is turned on and tends to previously used glow level. A short press of the **Click** button earlier switches the light to a constant glow, thus canceling the smooth lighting.

✓ While in the **MoonLight** lighting mode, two short **Clicks** or **Long Clicks** (more than 0.3, but less than 0.6 seconds - **button support**) - silent turning on of the light, transfer the light to the previously used glowing level **(*without smooth lighting*)**.

✓ To turn on and set the time of **smooth lighting (5, 10, 15, 20, 25 seconds)**, it is necessary to turn on the flashlight at any glowing level, after pressing and holding the **Press** button aiming for the minimum or maximum glowing level, continue to hold the button for 4 seconds, orange **(Amber)** the LED flashes 4 times **(a 4-second hidden command)**, the main light is alerted with a **double** alert - **smooth lighting** is on. If you continue to hold for another 4 seconds, the main LED starts to alert **1 time - 5 seconds, 2 times - 10 seconds, 3 times - 15 seconds, 4 times - 20 seconds, 5 times - 25 seconds,** short pressing of **Click** and holding **Press** changes the direction of rollover of smooth lighting timer in the opposite direction. Releasing the button saves your selection, now the **smooth lighting** and its timer are activated.

- ✓ To turn off **smooth lighting**, it is necessary to turn on the flashlight at any glowing level, then press and hold the **Press button** aiming for the minimum or maximum light level, continue to hold **Press** button for 4 seconds, orange **(Amber)** LED flashes 4 times **(4-second hidden command)**, the main light is alerted with **one** alert - **smooth lighting** of the light is turned off.

- ✓ Switching on and off smooth lighting is carried out cyclically circle-wise, at that lightning time settings are not changed **(do not hold for another 4 seconds to reset the timer)**, previously set smooth lighting time will be saved.

Alerts and control

- ✓ The flashlight has three modes of alerts: **Us-Them**-marking yourself in the water, **Amber**-beacon, **Strobe** –warning about battery discharge.

1 flash	**2 flashes**	**3 flashes**	**4 flashes**

- ✓ With flashlight **on**, **off, or in MoonLight** mode, we shortly press **Click** button and hold **Press** button for about 2 seconds *(interruption of accidental activation)*, the alert command **Us-Them** is called, if you press **Press** button again, you will switch to the next alert **Amber**-beacon, next press of the **Press button** switches to Battery discharge status alert and the same way circle-wise always with alert **Amber**-beacon. *Alert is on without holding the button.* Short press of the **Click** brings the flashlight to stop alerts and returns it to its initial condition.

*When the light is **off** or in **MoonLight** mode, the alert starts with **Us-Them**, when the flashlight is **on**, it starts with **Alert - battery discharge status**.*

Saving and restoring the individual user profile. Reset to factory settings

✓ After the complete configuration of the flashlight for hunting (operational) conditions, the user has apossibility to save individual settings and, if necessary, restore them.
Save/restore button is located under the cover of the back of the flashlight.

✓ The individual user profile is saved only when the flashlight is turned off or locked, by pressing **Click** button 2 times shortly and holding the **Press** button for 4 seconds **(orange LED is always on)**, two alerts with the main light confirm correct saving, the flashlight is automatically locked.

✓ Restoring individual user profile occurs only when the flashlight is turned off or locked, by pressing and holding the **Press** button for 4 seconds **(orange LED is always on)**, correct saving is confirmed by five alerts with the main light, the flashlight is automatically locked.

✓ Reset to factory settings **(settings of the flashlight are programmed by the manufacturer)** occurs only when the flashlight is turned off or locked, by pressing **Click** button 5 times shortly and holding the **Press** button for 4 seconds **(orange LED flashes 5 times)**, the reset is confirmed by 1 alert-pause-9 alerts with the main light *(flashlight software version number v1.9)*, previously recorded user profile will be deleted, the light will be automatically locked.

Important to know!!!
*Orange **(Amber)** LED confirms the correctness of dialed commands saved, restoration and reset to factory settings, it simply does not light up if the command is incorrect, and the save/restore/reset button is not active when the flashlight batteries are deeply discharged **(below 12 volts)**.*

Reset of the flashlight software, reset of command configuration

✓ A unique module has been developed, the microcontroller of which is not synchronized with the driver in any way, but is controlled by the same flashlight button. From any state of the flashlight (on, off, locked, MoonLight), we can do more than 15 Clicks **(very fast short presses, no need to count the number of Clicks)**, the software will reset, the flashlight will alert and block. The configuration and settings of the flashlight remain unchanged.

Preparing the flashlight for work

✓ Before shipping, the flashlight is repeatedly tested. Batteries are also tested *(measurement of the internal resistance of each battery, as well as 3 charge / discharge cycles)*.

✓ It is also tested for tightness under pressure, and the consumer does not need to perform any manipulations (for example, putting on O-rings). Only spare parts are supplied in the kit.

✓ Before working with the flashlight, it is necessary to charge the batteries to achieve stated parameters. Remember, all batteries have a self-discharge effect.

- ✓ It is necessary to **discharge / charge** batteries every 3 months when the flashlight is not used, and to extend the service life of Li-Ion batteries, we recommend storing the flashlight charged not less than **80%**.

- ✓ DO NOT USE FORCE WHEN TIGHTENING THE FLASHLIGHT BLINDS *(LEFT-HAND THREAD - SCREW COUNTER CLOCKWISE)*, THE LEVEL OF SEALING DOES NOT DEPEND ON THIS.

Replacement and installation of batteries

- ✓ Unscrew the flashlight body. Install or replace batteries on the table. Pull the tape towards the battery exit **half a diameter** to remove the first battery.

- ✓ Then press the battery body in the direction of the spring contact until it stops, pull the battery without skewing toward you, and pull out each battery this way. Do not apply force to avoid damage of insulating shell of the batteries.

- ✓ After installing the batteries, the flashlight will make an alert with each LED channel **(presentation)** and will be locked. The flashlight is ready for work.

Charging

- ✓ Charging can be interrupted at any stage. Batteries have no memory effect. For long-term and reliable operation of the flashlight, it is necessary to observe the sequence of actions during charging.

- ✓ In winter, charging is possible only after the batteries are warmed up to plus (ambient) temperature.

- ✓ Plug smart charger into an AC power outlet.

- ✓ Connect the DC plug of the charger to the socket of the flashlight (the connector is under the cover of the magnetic button). A red LED will light up on the charger – it is a signal to start charging.

- ✓ When charging is complete, the green LED lights up. *(Battery manufacturer recommends using the flashlight 10 minutes after charging).*

- ✓ Disconnect the charger from the flashlight, and only then from the AC network.

   «*Complete charge time of the rechargeable batteries of the flashlight is approximately 4.5 hours*».

Indication of the battery status

- ✓ Only when the flashlight is turned on *(as soon as the microcontroller has detected the discharge),* a short-term alert is automatically starts to indicate battery status.

- ✓ When the batteries are half-discharged, the driver will warn with one quick alert. Each time the light is switched on, a new alert is made, and repeated **3** times.
  At the same time, work should be continued in mode set.

- ✓ A low battery warning occurs every time the flashlight is turned on. Each time the light is turned on again, two short alerts are made, and repeated **6** times. At the same time, normal work is possible.

- ✓ When the batteries are completely discharged **(deep discharge)**, the driver will warn exactly one minute before the discharge with **5** short alerts and will switch the light to emergency mode, which **MoonLight** is responsible for. Operation of the flashlight is possible only in the lighting mode of the previously used **MoonLight** mode. All other flashlight functions are prohibited.

- ✓ When the batteries are critically discharged, the driver turns off the flashlight without warning, any pressing of the flashlight button is accompanied by a short flash. Operation of the flashlight is not possible, the batteries of the flashlight are completely discharged! A full recharge of the flashlight is required!

Flashlight maintenance and storage

✓ The flashlight does not require special care. Check the seals for cleanliness when **disassembling / charging** the flashlight. In case of mechanical damage to the seals, in order to avoid depressurization of the flashlight, it is necessary to replace them.

✓ Parts made of titanium, copper alloys and other substances capable of forming a galvanic pair with aluminum cannot be placed in the immediate vicinity of the flashlight. Do not use any detergents when washing the body.

✓ If you attach the flashlight to the gun with insulating tape, use **silicone** or **rubber** glue **ONLY** that does not corrode the anodized coating in water.

Important to know!!!
After using the flashlight in salt water, a desalination procedure is mandatory: rinse the light thoroughly under running water, put the light in fresh water for 60 minutes, then rinse again under running water.

- ✓ All rubber seals (O-rings) are made of oil and gasoline resistant rubber and it is recommended to use only **Litol-24** for lubrication.

- ✓ It is recommended to store and transport the flashlight **switched off** and **locked** (three pressings of **Click** with the flashlight on and it is locked).

Recommendation for use of the flashlight in winter time

- ✓ In winter, in order to avoid freezing of the end button of the flashlight after leaving the water, we recommend blocking the flashlight, and while holding the button pressed, drain the water through the drainage holes. Unlock the flashlight and continue using.

It is forbidden to

- ✓ Store and transport the flashlight at a temperature below **-20°C** and above **+40°C**;

- ✓ Dry the flashlight at a temperature above **+40°C**, dry the flashlight in a microwave oven;

- ✓ Subject the flashlight to shock loads;

- ✓ Disassemble and assemble the flashlight with wet hands, in the rain or under water;

- ✓ Do not use any parts of the flashlight not for their intended purpose;

- ✓ Use any elements in the flashlight **(sleeves, washers, magnets, etc.)** that were not approved for its design;

- ✓ Use chargers that are not intended for this flashlight model;

- ✓ Use faulty or damaged chargers;

- ✓ Operate the flashlight with signs of leakage: fogging, broken glass, visually damaged body seals, glass, etc.;

- ✓ Apply brute physical force when twisting the flashlight blind *(left thread of the blind, twist counter-clockwise)*.

Possible malfunctions and ways to eliminate them

- ✓ *The flashlight does not turn on.*
Cause: The flashlight is locked.
Remedy: Click **3** times to unlock. The flashlight will unlock and turn on.

- ✓ **Cause:** The battery is completely discharged.
Remedy: It is necessary to charge it.

- ✓ **Cause:** Incorrectly installed batteries in the flashlight case. Polarity mixed up.
Remedy: The batteries must be installed correctly.

The flashlight is automatically switched to MoonLight mode (emergency-duty lighting mode) .

✓ **Cause:** Deep battery discharge.
Remedy: Charge the battery.

*The flashlight is automatically locked after **N-minutes** (N-minutes according to the manufacturer's preset settings), (when the flashlight is off, but not locked). Do-not-forget function (alert: 4 flashes).*

✓ **Cause:** Do-not-forget function of is activated.
Remedy: Unlock the flashlight with three clicks.

*The flashlight automatically turns off without alert after **N-minutes** (N-according to user settings), (when the flashlight is in the MoonLight mode).*

✓ **Cause: MoonLight** shutdown timer is set.
Remedy: Turn on the flashlight by pressing the button.

The flashlight does not turn on, when the button is pressed, there is a short flash.

✓ **Cause:** Critically discharged batteries.
Remedy: Charge the battery.

The charger does not charge, the charging indicator goes out.

✓ **Cause:** The plug of the charger is broken or the contact is missing.
Remedy: Disconnect the plug of the charger and connect it correctly.

The glass sweats.
- ✓ **Cause:** Small amount of moisture inside the case.
Remedy: Check the cleanliness of seals. Check the presence and integrity of the glass seal, as well as the integrity of the glass. If necessary, replace damaged seals. Allow the flashlight to dry and carefully reassemble.

Be sure to contact the manufacturer for more detailed recommendations.

The flashlight somewhat reduces brightness after long-term work in the air.
- ✓ **Cause:** Triggering of thermal protection of the LEDs and the driver.
Remedy: Does not require any action, the flashlight should cool down.

The flashlight somewhat strobes + flashes 3 times and is locked after long-term work in air or in water.
- ✓ **Cause:** Activation of the second stage of thermal protection of the LEDs and the driver.
Remedy: Check water access to the radiator of the flashlight (remove the insulation of the mounting from the radiator, clamp, tape, foam) to remove the heat from the LED-heated radiator. The flashlight must cool down.

The button to save / restore individual user settings and reset to factory settings is not active.

✓ **Cause:** The flashlight glows with main light or **MoonLight**, deep discharge of the batteries **(below 12 volts)**.
Remedy: Turn off the flashlight and charge the batteries.

Individual user settings are not restored after pressing the button.

✓ **Cause:** Your profile is not saved in the flashlight.
Remedy: Saving the individual user profile occurs only when the flashlight is turned off, by making 2 short presses of **Click** and holding the **Press** button for 4 seconds **(orange (Amber) LED is always on)**, two alerts with the main light serve as confirmation of correct saving, the flashlight is automatically locked.

Warranty obligations

- ✓ We guarantee trouble-free operation of the product for **1 year** from the date of sale, provided that the standard requirements applicable to electronic devices are met.

- ✓ *Depressurization of the flashlight, destruction of batteries (short circuit, critical discharge)* due to the fault of the user is not a warranty case and is resolved in each case individually.

- ✓ In case of water ingress, it is recommended to disassemble the flashlight, pour out the water, remove all batteries, unscrew the flashlight blind, remove the lenses, and leave the completely disassembled flashlight to dry (at ambient temperature) for several days.

- ✓ *Be sure to contact the manufacturer for more detailed recommendations.*

- ✓ In case of consulting questions, contact the manufacturer's website *www.hunterprolight.com* or via e-mail: *hunterprolight@gmail.com*

- ✓ For detailed explanations of each flashlight function, see our ***Youtube*** channel: *https://www.youtube.com/channel/ UC9GGT3HUL-37JrJgACo6WTg*

✓ Register products on manufacturer's website *www.hunterprolight.com* for additional benefits! At the same time, you will not only receive prompt service, but also be able to receive the latest news about new products.

The manufacturer of the flashlight reserves the right to make changes to its design, driver specifications and broaching any time without prior notice.