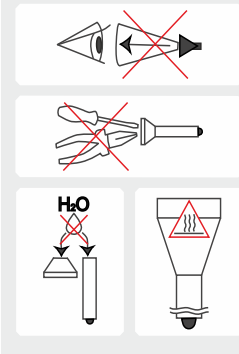## Warnings

The flashlight will get hot in Turbo mode quickly and discharge the battery by high current. <u>Don't leave it without your attention as very bright light can heat objects and be a cause of the fire.</u>

1. Always follow the instructions from this manual and recommendations on battery usage.
2. Apply only the recommended power sources.
3. Do not reverse battery polarity.
4. Do not use different power sources together, i.e. old ones with new ones, charged with discharged. Do not use different types of batteries combined as the element with less capacity can be damaged.
5. Do not modify or recast the flashlight and its components as it will deprive you of the warranty.
6. Do not allow water or any other liquid to leak into the flashlight.
7. Do not aim a switched-on flashlight at people's or animals' eyes – it can cause temporary blindness.
8. 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.*

Care and Storage

It is recommended to clean the threads and O-rings off dirt and old grease once or twice per year. Remember that reliable protection from water and dust cannot be provided by worn out sealing. The fouling as well as lack of lubricant cause fast wear-out of threads and sealing rings.

To clean the threads do the following:

1. Unscrew the tailcap and remove the sealing ring carefully with a toothpick (do not use sharp metal things as they can damage the ring).
2. Wipe the sealing ring thoroughly with a soft cloth (or tissue). Do not use solvents. If the sealing ring is worn out or damaged replace it by a new one.
3. Clean the metal threads with a brush using ethanol. Be careful not to allow the applied liquid to get inside the flashlight or tailcap as it can cause fails in functionality of the flashlight.

After cleaning lubricate the thread and the sealing ring with polyalphaolefin-based silica grease, e.g. Nyogel 760G.The application of automotive and other improper grease can cause swelling and damage of the sealing rings.

In case of active operation and exploitation in dusty environments, it is recommended to perform cleaning and lubricating of the parts as often as required.

Service and Warranty

Armytek provides free warranty repair for 10 years (excluding batteries, chargers, switches and connectors which have 2 years warranty) from the date of buy with the document confirming the purchase.

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 and chemicals' exposure (including the exposure of liquid from defected batteries).
5. Usage of low-quality batteries.

Armytek Optoelectronics Inc.
Web: www.armytek.com Email: service@armytek.com
Address: 13-85 West Wilmot St, Richmond Hill, Ontario, L4B 1K7, Canada

Specifications are subject to change without notice.

Prime PRO

THE MOST TECHNICALLY ADVANCED

— · USER MANUAL · —

Thank you for choosing the products of Armytek Optoelectronics Inc., Canada.
Please read this manual carefully before using the flashlight.

Specifications

Armytek Optoelectronics Inc. is a Canadian manufacturer that produces powerful and reliable flashlights designed especially for your needs. The components made in the USA and Japan. **10 years no-hassle warranty**.

- Superb light of amazing constant brightness due to powerful electronics and active temperature control without timers.
- Efficient TIR-optics and no "tunnel vision" effect even after continuous use.
- Warning Indication of low battery level and real-time temperature control (Prime C2 Pro only).
- Side switch for comfortable one-hand operation and easy modes switching with advanced operation.
- Multicolor State Indication and ultra low current drain in OFF-state – more than 25 years.
- Removable magnet in the tailcap, firm holster, removable clip, strong lanyard and possibility of tail-stand for multipurpose use.
- Compact and light-weight flashlight of guaranteed durability stands up harsh impacts and falling from 10 meters.
- Total protection from water, dirt and dust penetration – flashlight continues to work even at the depth of 10 meters.

Model		Prime A1 Pro	Prime A2 Pro	Prime C1 Pro	Prime C2 Pro	
LED / Optics		Cree XP-L or XM-L2 / TIR				Cree XHP35
Brightness stabilization type		FULL (constant light)				
Light output, LED/OTF lumens*		600 / 500	850 / 700	800 / 650	1250 / 1050	2100 / 1700
Peak beam intensity, candelas		3280	5080	4320	7560	9200
Hotspot / spill		20° / 80°				
Beam distance*		115 meters	143 meters	131 meters	174 meters	192 meters
Modes, light output (OTF lumens*) and runtimes (measured with Sanyo Eneloop AA 2000 mAh / Armytek CR123A 1500 mAh / Armytek 18650 Li-Ion 3400 mAh until the light output drops to 10% of the initial value)	Turbo2	500 lm / 0.8h	700 lm / 0.8h	650 lm / 0.7h	1050 lm / 1.3h	1700 lm / 1h
	Turbo1	280 lm / 1.2h	280 lm / 2.8h	280 lm / 1.8h	750 lm / 1.8h	950 lm / 1.7h
	Main3	95 lm / 4.2h	95 lm / 8.3h	95 lm / 6.2h	410 lm / 3.5h	420 lm / 4h
	Main2	34 lm / 11.7h	34 lm / 25h	34 lm / 18h	190 lm / 8.5h	180 lm / 10.5h
	Main1	10 lm / 35h	10 lm / 75h	10 lm / 55h	65 lm / 18h	35 lm / 50h
	Firefly3	—	—	—	8.5 lm / 6d	6 lm / 12d
	Firefly2	2 lm / 8d	2 lm / 17d	2 lm / 13d	2.5 lm / 18d	1.7 lm / 40d
	Firefly1	0.15 lm / 90d	0.15 lm / 200d	0.15 lm / 140d	0.4 lm / 100d	0.15 lm / 200d
	Strobe3	1Hz/ 34lm/ 60h	1Hz/ 34lm/ 125h	1Hz/ 34lm/ 90h	1Hz/ 190lm/ 42h	1Hz/ 180lm/ 52h
	Strobe2	1Hz/ 500lm/ 6h	1Hz/ 700lm/ 4h	1Hz/ 650lm/ 3.3h	1Hz/ 1050lm/ 6.7h	1Hz/ 1700lm/ 5h
	Strobe1	10Hz/ 500lm/ 1.7h	10Hz/ 700lm/ 1.7h	10Hz/ 650lm/ 1.7h	10Hz/ 1050lm/ 2.7h	10Hz/ 1700lm/ 2h
Power source		1xAA / 1x14500 Li-Ion	2xAA	1x18350 Li-Ion / 1xRCR123 Li-Ion / 1xCR123A	1x18650 Li-Ion / 2xCR123A / 2xRCR123 Li-Ion**/ 2x18350 Li-Ion**	1x18650 Li-Ion
Size and weight (without batteries)		Length 108mm, body diameter 24.5mm, head diameter 24.5mm, weight 66g	Length 155mm, body diameter 24.5mm, head diameter 24.5mm, weight 70g	Length 93mm, body diameter 24.5mm, head diameter 24.5mm, weight 64g	Length 124mm, body diameter 24.5mm, head diameter 24.5mm, weight 68g	

* Light output for flashlights with Warm light are about 7% less, beam distances are about 3% less.

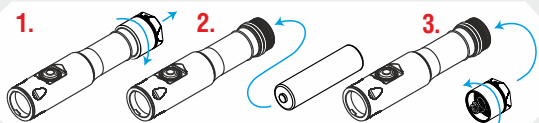** It is allowed to use only protected Li-Ion batteries.
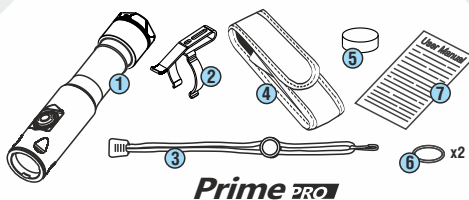
Items included in the package:

1 - Flashlight   **5** - Magnet
2 - Clip   **6** - 2 spare O-rings
3 - Lanyard   **7** - User manual
4 - Holster

!
✓ Your flashlight can inconsiderably differ from the pictures in the manual.
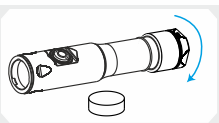✓ The producer reserves the right to change the package at his own discretion without modifying this manual.

Initial Service

1.   **2.**   **3.**

To set/replace batteries:

1. Unscrew the tailcap.
2. Place the batteries with the positive contact (+) facing the head of the flashlight.
3. Adjust the tailcap and tighten it as far as it can go.
The flashlight is ready for operation.

The removable magnet in the tailcap.

With its help you can easily attach the flashlight to an electric service panel, a bike handlebar, above a car wheel, etc.

The magnet can be taken out of the tailcap. To do this unscrew the small cover at the end of the tailcap and put the magnet out.

Specifying the battery type for correct voltage indication.

1xAA (for Prime A1 Pro) / 2xAA (for Prime A2 Pro) / 1xCR123A (for Prime C1 Pro) / 1x18650 Li-Ion (for Prime C2 Pro) battery is by default. Do not specify the type of power source manually unless you use unprotected Li-Ion batteries different from those that are stated by default.

Press & Hold   **Release while blinking 3 times/sec**   **Click x1, x2 or x3**

OFF
Turbo1 — Firefly1
Main3 — x1 — Firefly2
Main2 — Firefly3 (for C2 Pro)
Main1

x1 1xAA / 1xCR123 / 1x18650 Li-Ion
x2 2xAA / 2xCR123A
x3 1x14500 Li-Ion / 1x18350 or 1xRCR123 Li-Ion / 2xRCR123 Li-Ion
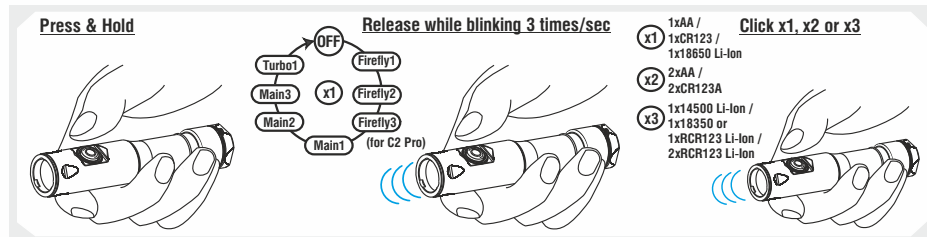
To access the Menu press and hold the switch button (when the flashlight is switched off). It will switch on, go through 7 modes, then after 2sec in Turbo1 mode – enter to Menu and flash about 3 times a second.

Now you can specify the battery type:
- 1 click for 1xAA (Prime A1 Pro) / 1xCR123 (Prime C1 Pro) / 1x18650 Li-Ion (Prime C2 Pro).
- 2 clicks for 2xAA (Prime A2 Pro) / 2xCR123A (Prime C2 Pro).
- 3 clicks for 1x14500 Li-Ion (Prime A1 Pro) / 1x18350 or RCR123 Li-Ion (Prime C1 Pro) / 2xRCR123 Li-Ion (Prime C2 Pro).

After the choice is made the light will flash 1, 2 or 3 times to show the battery type chosen and will switch off.

!
✓ We DO NOT RECOMMEND to use low-quality CR123A batteries, because they can explode. Turbo mode (for Prime C2 Pro) needs rechargeable 18650 Li-Ion batteries without PCB (unprotected) or with PCB which guarantees 7A discharge current for stable work.
✓ We DO NOT RECOMMEND to leave power sources inside the flashlight for a long storage period, as batteries (especially, non-rechargeable) can leak for various reasons and damage the inner parts of the flashlight. If you want to keep your flashlight in a stand-by state with batteries in then use new and high-quality batteries and store the flashlight in acceptable for batteries operational temperature and revise the batteries' state at least once a month. If you have noticed any signs of batteries' defects then withdraw them from the flashlight and utilize. It is also recommended to replace discharged batteries with new ones before the storage as the chance of leakage is higher with discharged batteries.

Operation

Click x2	Press & Hold	**Main**
Main ➜ Firefly	Main1 ➜ Main2	
Any Mode ➜ Main	Main3	

Click x2	Press & Hold	**Firefly**
Firefly ⇅ Main	OFF ➜ Firefly1	
	Firefly1 ➜ Firefly2	
	Firefly3 (for Prime C2 Pro)	

Click x3	Press & Hold	**Turbo**
Any Mode ➜ Turbo	Turbo1 ⇅ Turbo2	

Click x4	Press & Hold	**Strobe**
Any Mode ➜ Strobe	Strobe1 ➜ Strobe2	
	Strobe3	

Switching State Indication

Battery level   **ON / OFF**

< 100%
< 75%
5sec

1   2   +

Press & Hold

Low Battery Indication   **High Temperature Indication**

Warning   Critical   Warning   Critical

2sec   1sec   2sec   1sec
< 25%   < 10%   WARM   HOT

The flashlight has 4 Sections of modes:
[Section1] – Firefly modes   *[Section3]* – Turbo modes
[Section2] – Main modes   *[Section4]* – Special modes

In OFF state:

Click: To turn on the last used mode.

Press and hold: To turn on Firefly1 mode in *[Section 1]*.

In ON state:

Click: To turn off the flashlight.

Press and hold: To start **cycling through the modes** of actual Section.

The same in OFF & ON states:

2 clicks: To turn on the Main mode *[Section 2]*. Then double clicks will switch modes between chosen modes in *[Section 1]* and *[Section 2]*.

3 clicks: To turn on Turbo mode *[Section 3]*.

4 clicks: To turn on Strobe mode *[Section 4]*.

Prime C2 Pro has 2 types of operation:

1. **General.** The flashlight is switched on/off by 1 click.

2. **Tactical.** The flashlight will switch on in the last used mode only for the time the button is being pressed. This type of operation is useful for short-time lighting and setting signals.

To access the Tactical operation type, unscrew the tailcap to 1/4, press the button and tighten the tailcap again keeping the button pressed.

To return to the General type – press the button and while keeping it pressed – unscrew the tailcap to 1/4.

Automemorizing. After switching off the last used Mode is memorized for quick 1-click access at next switching on.

Lock-out function. Unscrew the tailcap to 1/4 for the protection from accidental switching on. State Indication will be turned off.

Multicolor State Indication. Shows the battery level by short flashes every 5 seconds. Prime C2 Pro has State Indication in OFF state and Firefly modes.

Switching Multicolor State Indication ON/OFF (Prime C2 Pro only). It is switched off by default in OFF-state and Firefly modes. To turn on and off: unscrew the tailcap to 1/4, press the button and holding the button pressed – tighten the tailcap and then unscrew it again. The settings will be memorized even when battery is changed. Ultra-low current consumption allows color indication to work for more than 25 years.

Warning indication shows the battery level and the temperature inside the flashlight.

Low battery level. When it is < 25%, the color LED will show the warning level – flashing in orange color once in 2 second. With a further voltage reducing brightness will start to decrease in steps for safety of the battery and user. If brightness will be <25% from nominal value, the main LED will flash 2 times. Critical battery level <10% is red indicated once a second.

High temperature (Prime C2 Pro only). When it increases to the warning level – the color LED flashes by orange 3 times once in 2 seconds. At critical level – it flashes by red 3 times once in 1 second, brightness starts to reduce. After cooling down the brightness increases to usual level.

Constant light. Powerful electronics provide constant brightness even in the Turbo1 mode, using all energy of the battery. And the Turbo2 mode gives the maximum brightness as the Overboost technology in cars, but until temperature of a flashlight and a discharge current of the battery don't exceed critical values.

Digital Light Stabilization & Safe Soft-Start System monitors battery voltage, starts the flashlight at an admissible brightness or decreases it by steps when the voltage dramatically fall down. These actions increase runtime, use all available energy, get longer lifetime of rechargeable battery and protect it from overdischarge or overheating.

Active temperature control (Prime C2 Pro only). The flashlight can heat up in Turbo mode quickly. When the temperature become +60°C – the brightness decreases by small steps. After cooling-down (provided that battery voltage is sufficient) the brightness increases to the Turbo mode again. This stepping goes cyclically to maintain the user's safety and the flashlight's functionality. In conditions of good air-cooling the flashlight delivers light without stepping down even in Turbo mode. There are no preset timers for stepping, but real-time active temperature measurements.