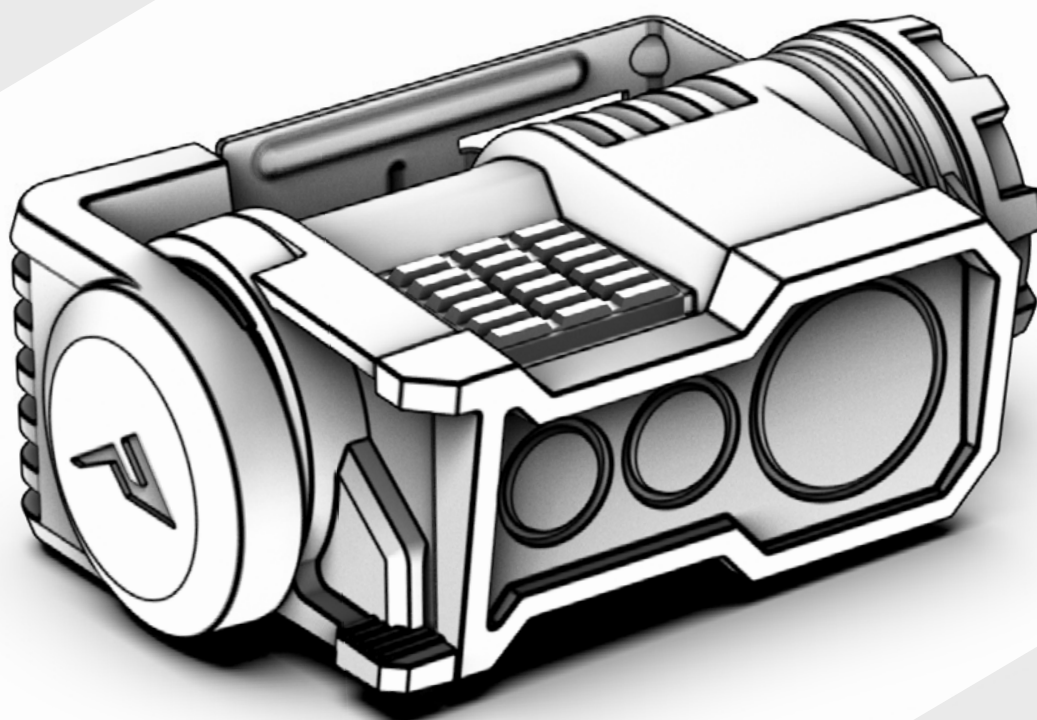




Princeton Tec[®]

available at BrightGuy.com



Ghost X[®] MPLS Ghost X[®] Headlamp

Operating and Maintenance Instructions

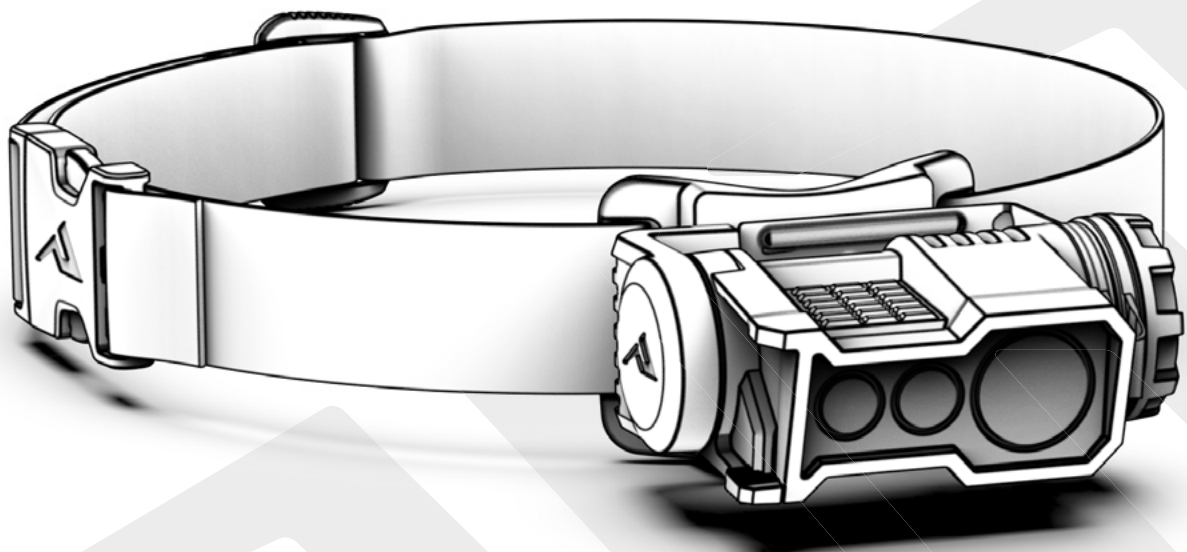


BUILT IN USA

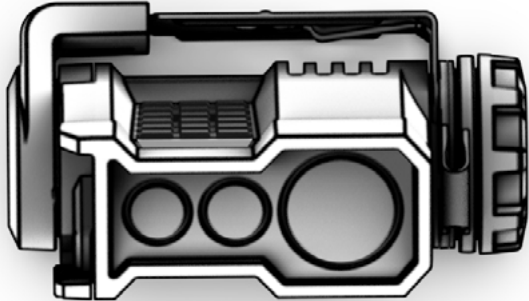
1. **What's in the box**
2. **Battery Replacement**
3. **Operation / Visible Light**
4. **Operation / Infrared / Lockout**
5. **Performance**
6. **Mounting System / Headstrap / MOLLE Mount**
7. **Mounting System / NVG Shroud**
8. **Mounting System / ARC Rail**
9. **Lifetime Warranty**

Français

Deutsch



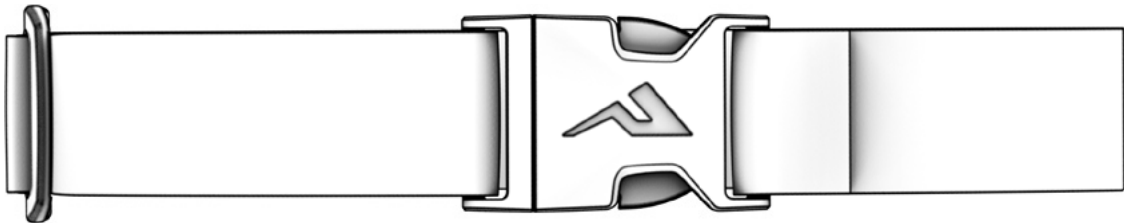
Ghost X[®]



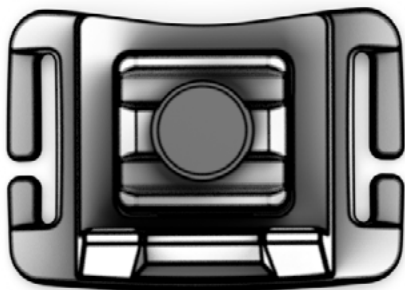
(1) CR123 Battery



Head Strap



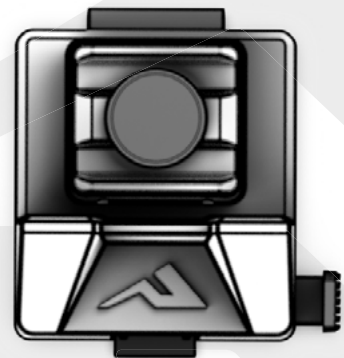
**Head Strap /
MOLLE Mount**



**ARC Mount
(MPLS version only)**



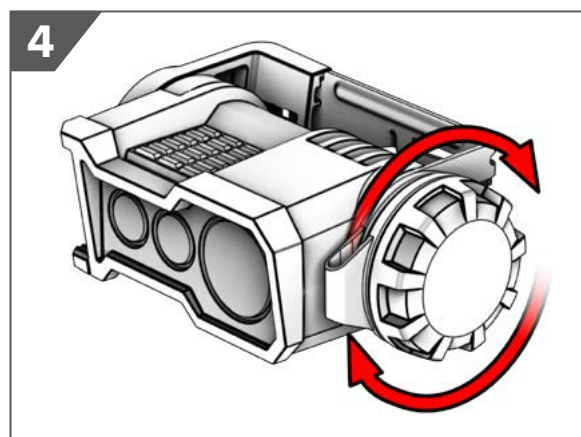
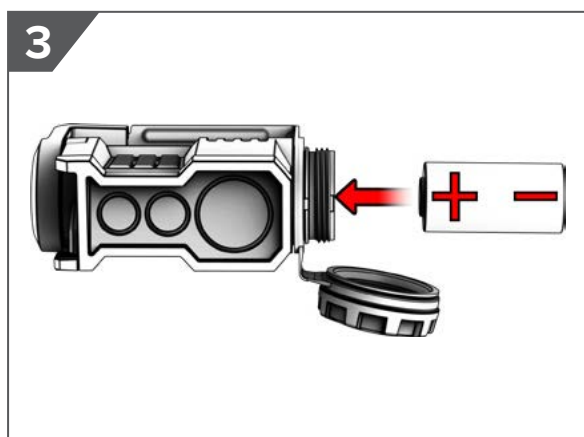
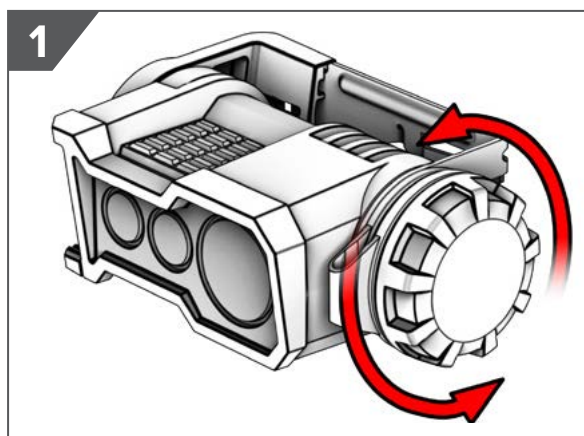
**NVG Shroud Mount
(MPLS version only)**



Battery Replacement

The Ghost X is dual-fuel and operates on either a CR123 or AA battery (alkaline or lithium).

1. Unscrew the battery door counterclockwise.
2. The battery door remains secured to the housing by a tether.
3. Insert the battery with the positive (+) terminal facing inward.
4. Reinstall the battery door and tighten clockwise until secure.



WARNING

Always remove drained batteries immediately to prevent leakage and damage. Remove batteries during long periods of storage.

NOTE: Lithium batteries offer extended constant brightness time, extreme cold weather performance, and lighter weight. Rechargeable NiCad or NiMH batteries may result in reduced brightness due to lower nominal voltage.

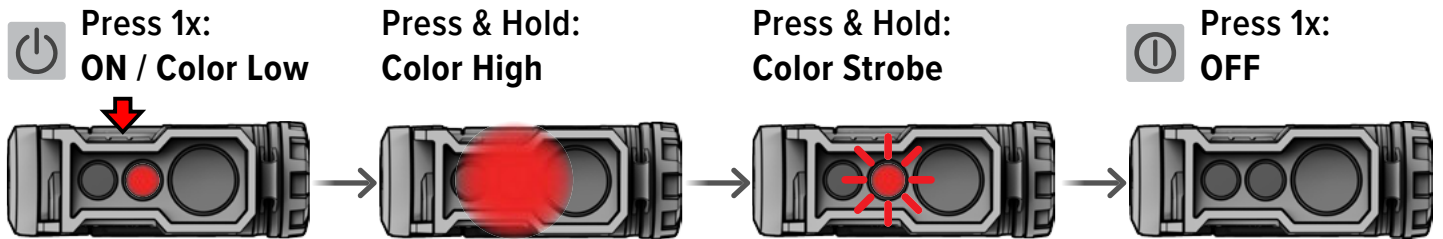
The Ghost X battery compartment has a waterproof seal. It is important to keep this seal free from dirt and away from harsh chemicals in order to preserve waterproof integrity. Inspect the seal every time batteries are changed. If dirt is present, wipe gently with a damp cotton swab and mild soap until dirt is removed.

Color Mode

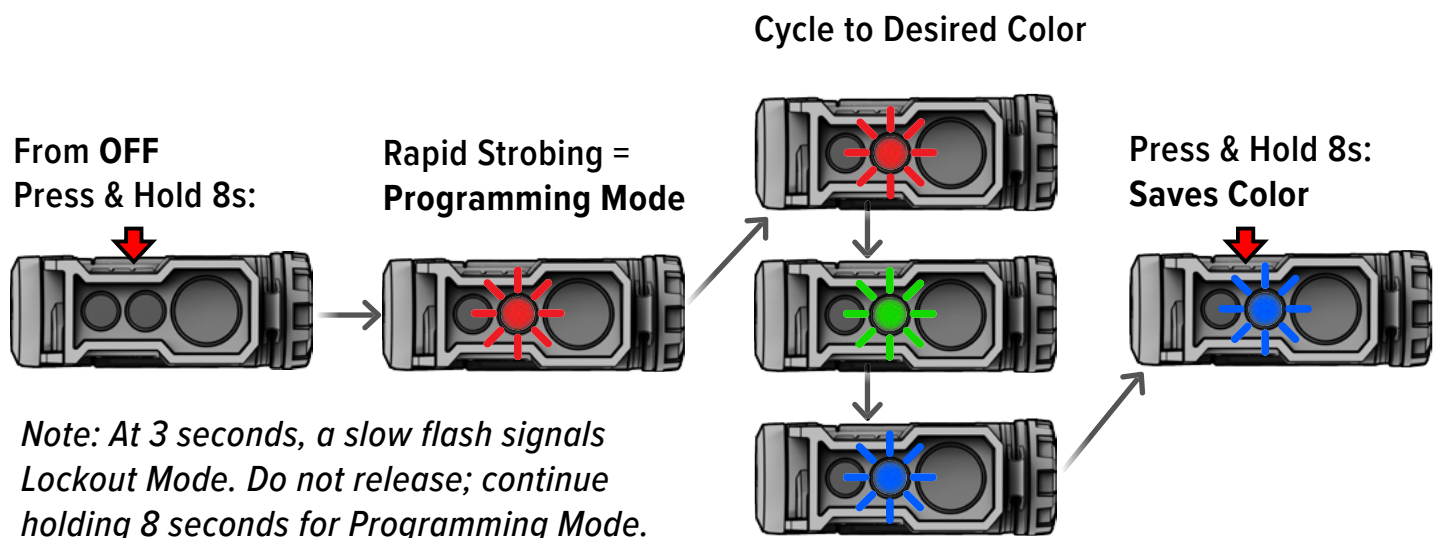
The default color mode is red.

Green or blue can be selected to replace red by using programming mode.

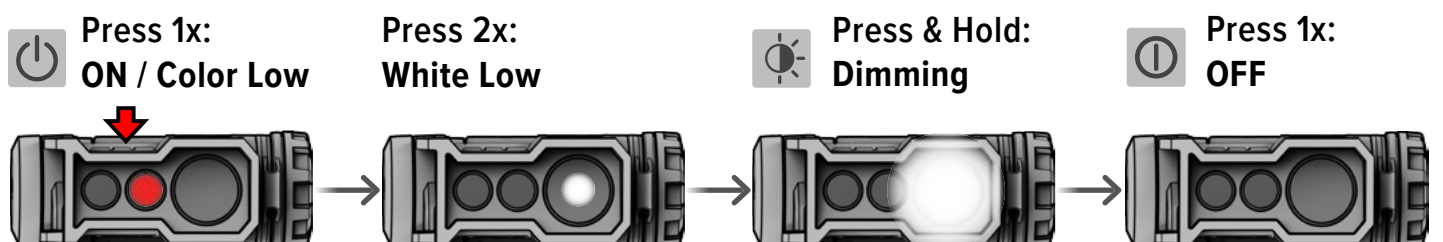
After 2 seconds in any mode, the next press is OFF.



Programming Mode

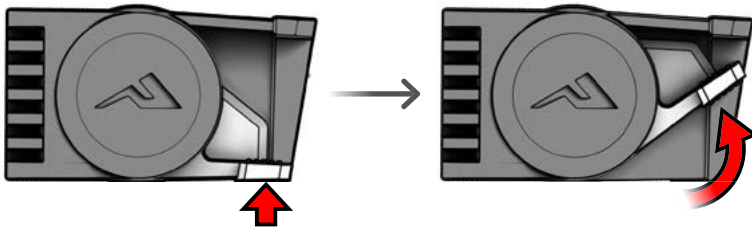


White Mode



IR Ghost Mode

Activate Ghost Mode Switch



- Ghost Mode **ON**: IR modes only (Visible light disabled)
- Ghost Mode **OFF**: Visible RGBW modes only (IR disabled)

 Press 1x:
ON / IR Low



 Press & Hold:
Dimming



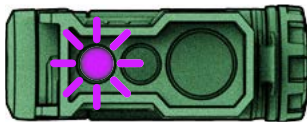
 Press 1x:
OFF



 Press 1x:
ON / IR Low




Press 2x:
Color Strobe

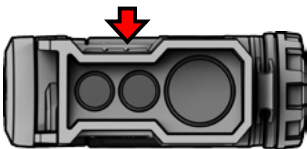


 Press 1x:
OFF



Lock / Unlock

 From OFF
Press & Hold 3s



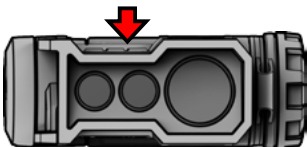
3 slow blinks
Indicate Lockout



LOCKOUT



 From OFF
Press & Hold 3s



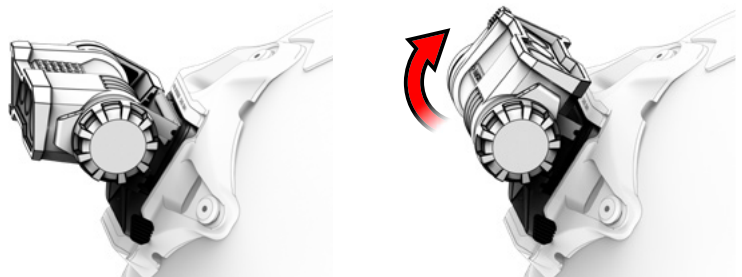
3 slow blinks
Indicate Unlock



UNLOCK



In addition to digital lockout, rotate the light fully upward to physically block the power button. This provides added protection against unintentional activation.



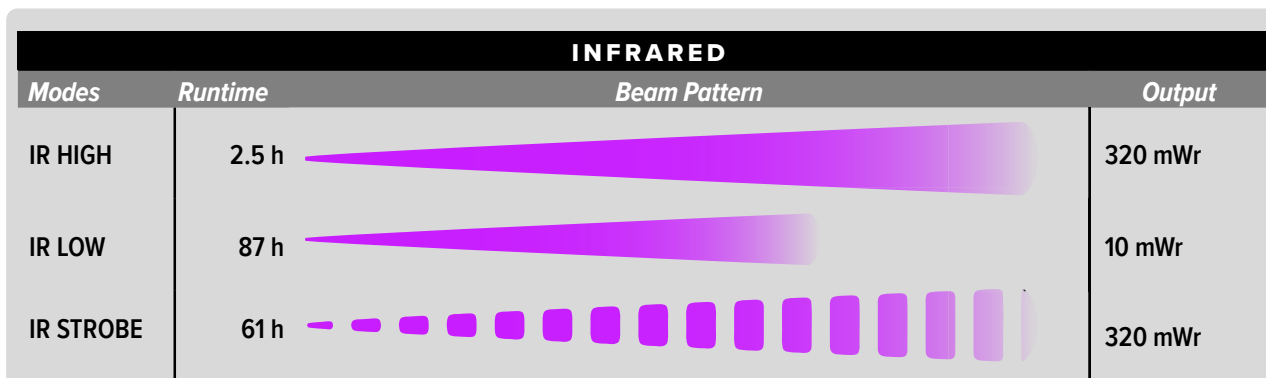
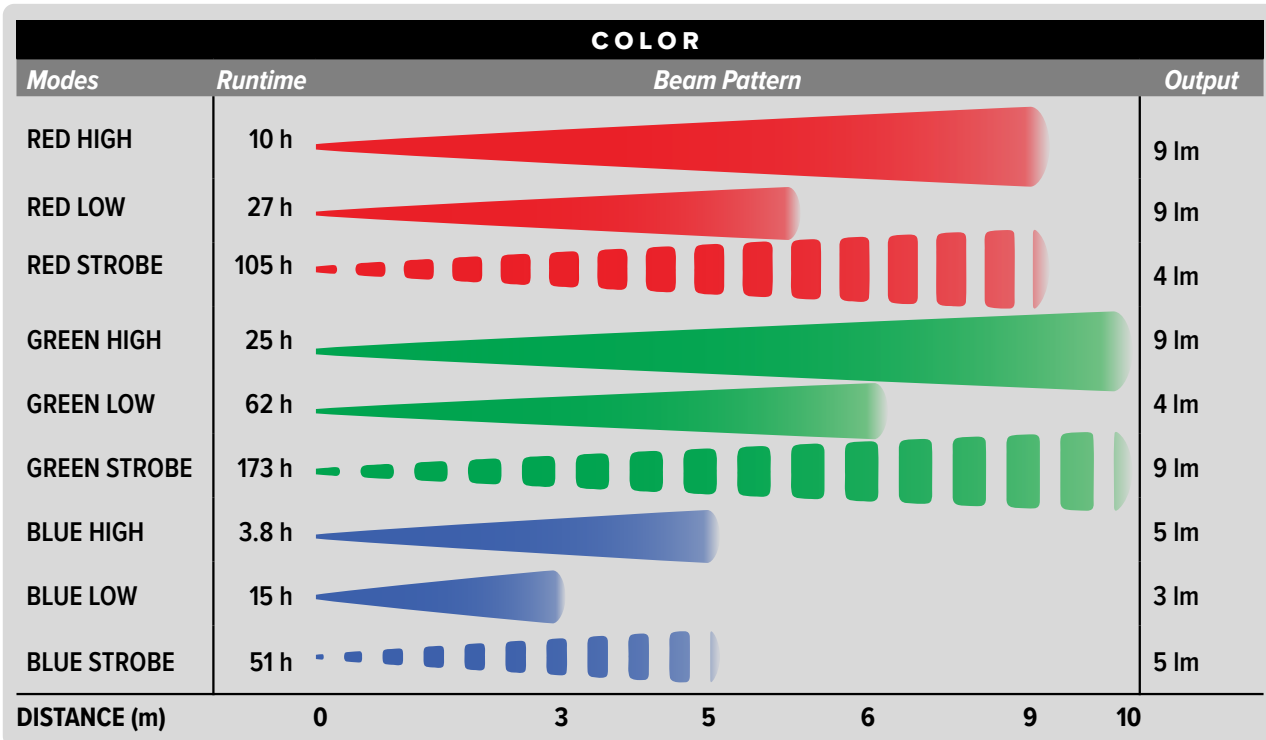
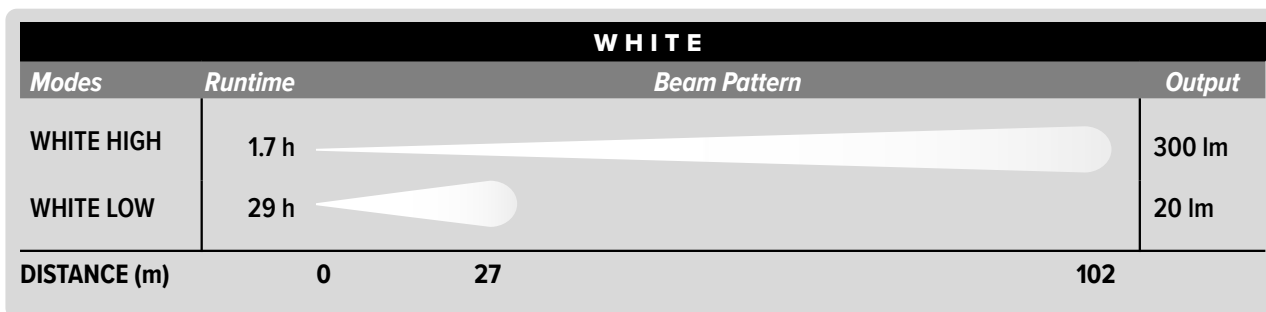
Runtime / Distance

(ANSI FL-1 Standard)

Runtime is defined as the duration of time from the initial light output value—defined as 30 seconds after the point the device is first turned on—using fresh batteries, until the light output reaches 10% of the initial value.

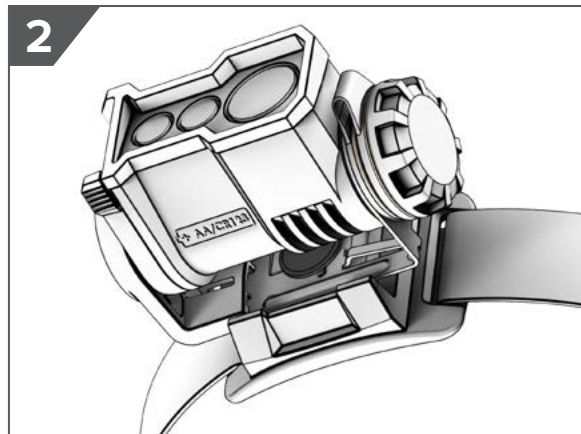
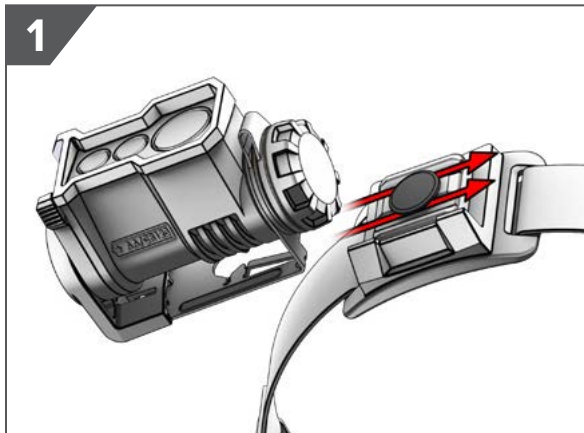
Reserve time is the duration of time from 10% of initial light output value down to 0.25 lux. (approximately the illumination provided by a full moon on a clear night).

Stated performance is based on (1) CR123 lithium battery.

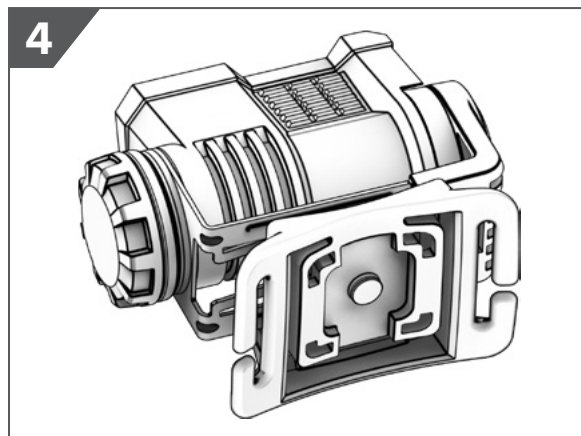
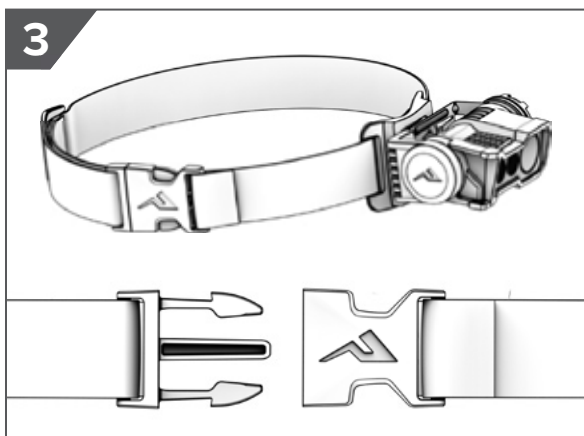


Headlamp / MOLLE Mount

1. Align bracket opening with circular pin.
2. Slide across until light fully engages with mount. You will hear an audible click. Check if fully engage. Headlamp should not be able to disengage.

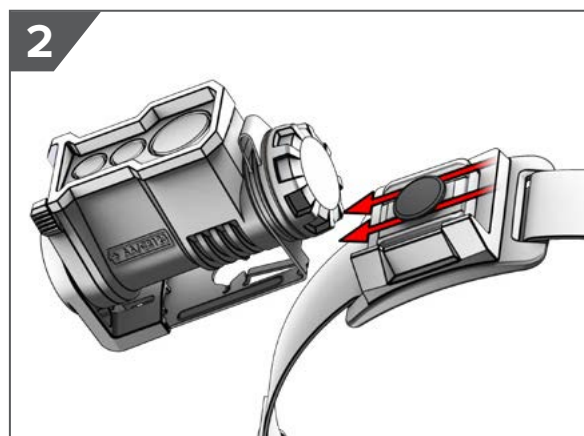
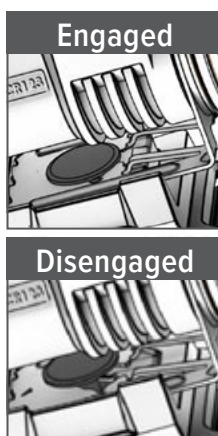
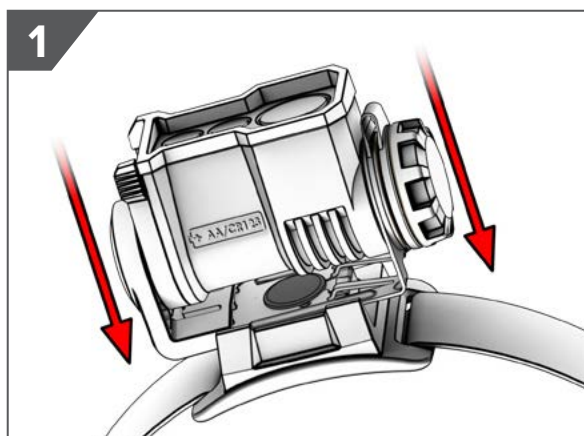


3. The quick-clip allows quick transition to neck-carry.
4. The headlamp / MOLLE mount attaches to any 1-inch webbing.



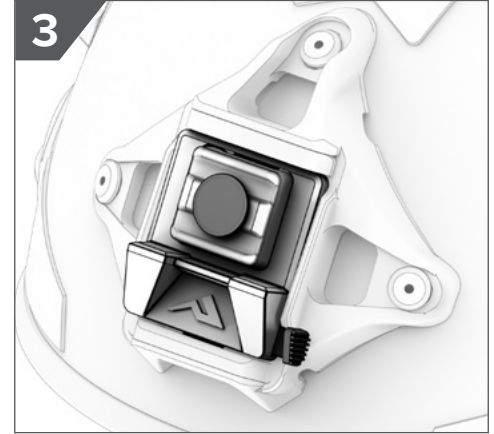
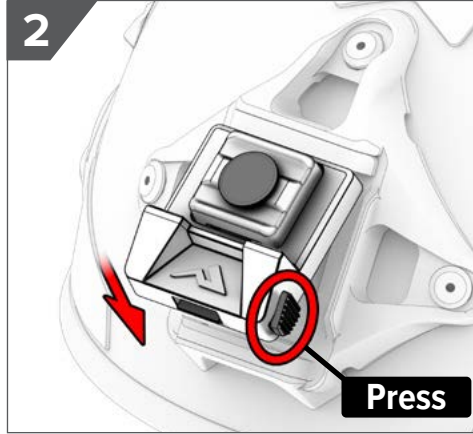
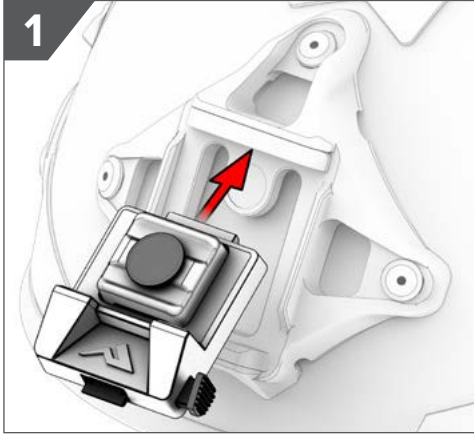
Removal from Headlamp / MOLLE Mount

1. The plastic plate is spring-loaded. Press Ghost X inward to disengage the pin head from the ramps.
2. Slide Ghost X out.

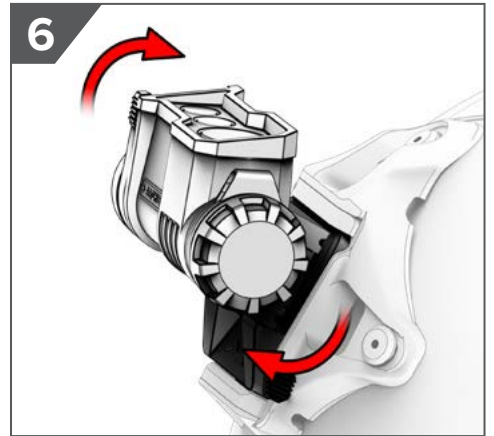
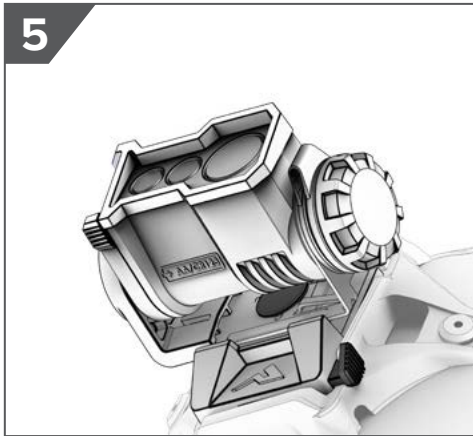


NVG Shroud

1. To attach NVG mount to NVG Shroud, insert upper locking tab.
2. Press side button to retract bottom locking tab and insert mount in to NVG Shroud.
3. Depress button.

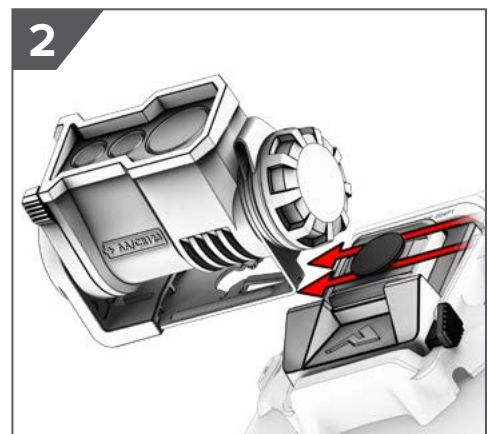
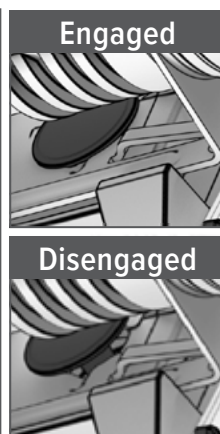
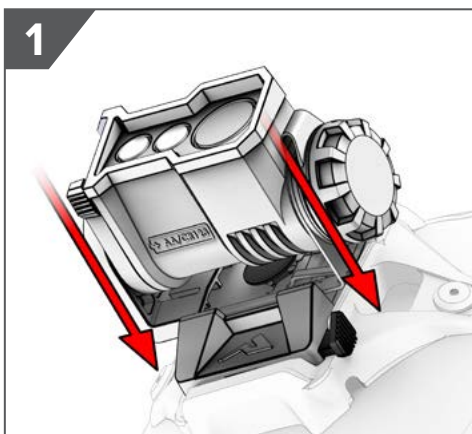


4. Align bracket opening with circular pin.
5. Slide across until light fully engages with mount. You will hear an audible click. *Check if fully engaged. Headlamp should not be able to disengage.*
6. For canopy lighting, rotate Ghost X upwards.



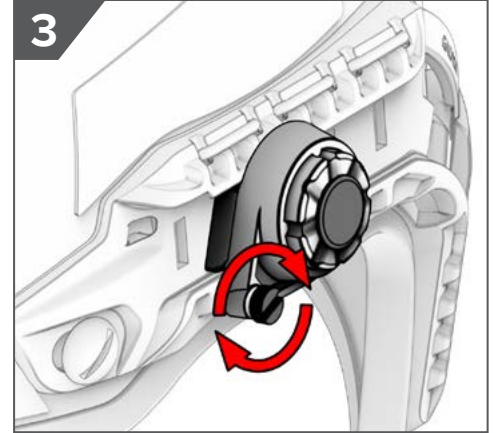
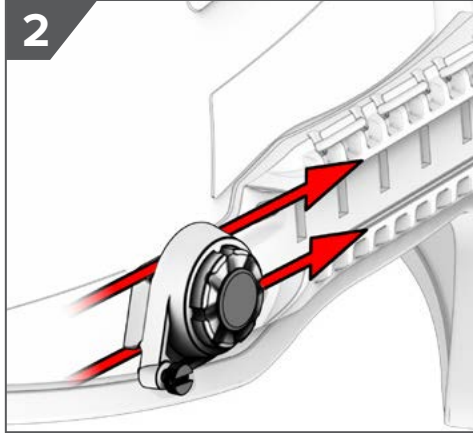
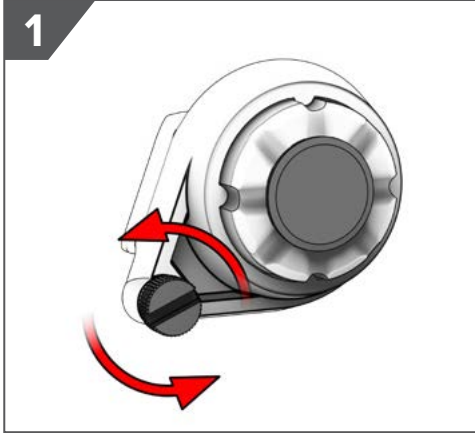
Removal from NVG Shroud

1. The plastic plate is spring-loaded. Press Ghost X inward to disengage the pin head from the ramps.
2. Slide Ghost X out.

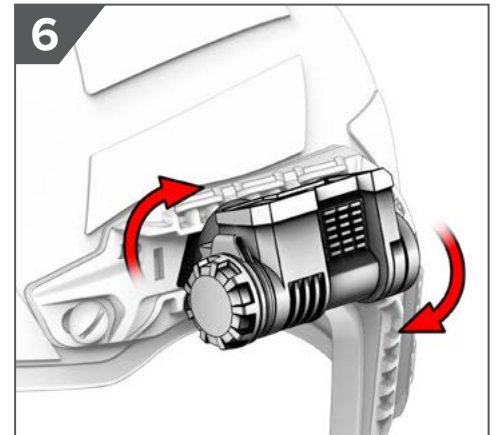
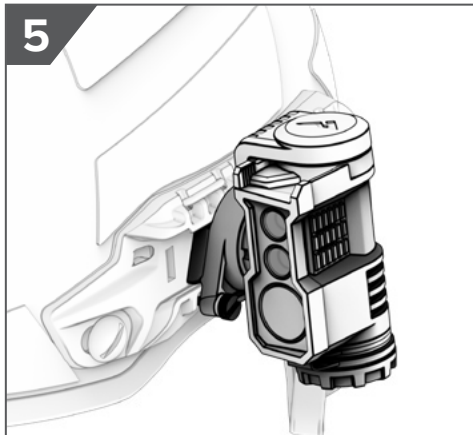
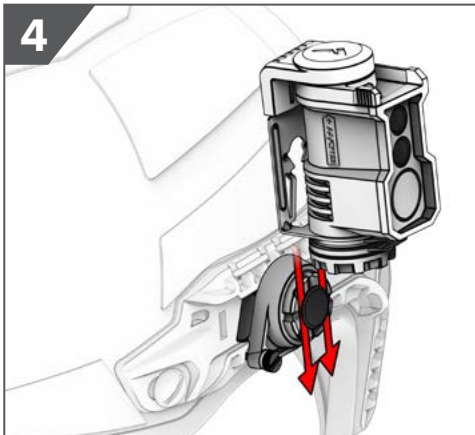


ARCs

1. To attach ARC mount to ARC Rail, Ensure thumb screw is fully loosened.
2. Slide in to desired position on rail.
3. Screw in thumb screw clockwise to lock in to place.

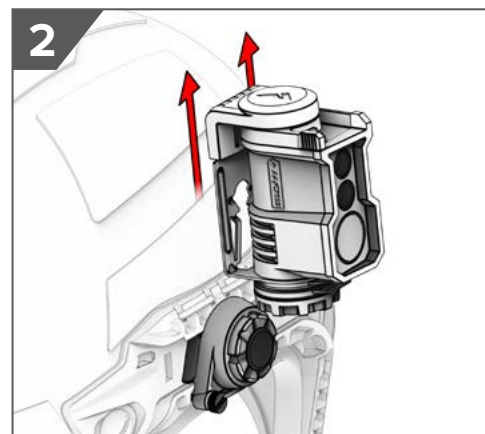
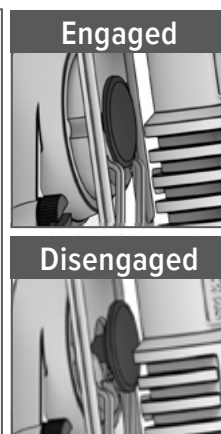
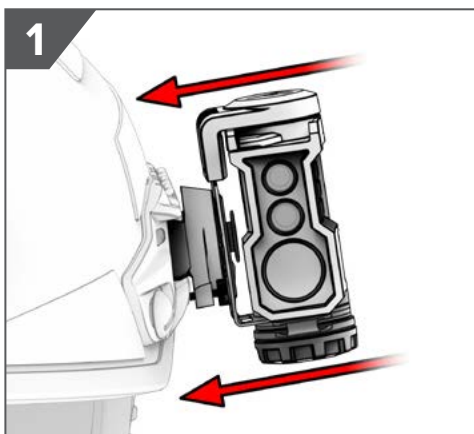


4. Align bracket opening with circular pin.
5. Slide across until light fully engages with mount. You will hear and audible click. *Check if fully engaged. Headlamp should not be able to disengaged.*
6. For canopy lighting, rotate Ghost X upwards.



Removal from ARC Rail

1. The plastic plate is spring-loaded. Press Ghost X inward to disengage the pinhead from the ramps.
2. Slide Ghost X out.



Built for the mission. Backed for life.

We design our products for real-world use. Every material, component, and design detail is selected with durability and performance in mind. Because of that commitment, we proudly stand behind our gear with the following Lifetime Warranty:

If your product fails due to defects in materials or workmanship, we will repair or replace it. No runarounds. No excuses. It shouldn't have failed and we'll make it right.

This warranty reflects our confidence in our design, our manufacturing standards, and the people who rely on our products when failure is not an option.

What This Warranty Covers

- Defects in materials
- Defects in workmanship
- Structural or functional failures under normal and intended use

This warranty only applies to the original owner and requires proof of purchase.

What This Warranty Does Not Cover

This warranty does not cover defects, damage, performance issues or deterioration related to:

- Normal wear and tear
- Batteries or other third-party components
- Cosmetic damage that does not affect performance
- Operator error, misuse, improper storage or maintenance, abuse, neglect, recklessness, or unauthorized modification or repairs
- Accidents, fire, chemicals, other hazardous materials or environmental exposure beyond intended use

We build gear to be used, but not abused.

The only charge to the customer will be **\$4.99** to cover the cost of shipping the product for repair or replacement. International shipping rates will vary.

Mission Failure Replacement Policy

When the mission matters, failure is not acceptable.

If one of our products fails during active use in a real-world operational environment, and that failure directly compromises performance, we will replace the product.

This applies regardless of whether the failure was caused by extreme conditions, heavy use, or circumstances beyond standard wear.

How It Works

- Submit the defective product along with a brief description of the context of the failure
- If the defect is confirmed, we will issue a no-cost replacement or equivalent product
- In some cases, we may evaluate the product to improve future designs

Important Notes

- This policy is not intended to encourage reckless use or deliberate destruction
- Damage caused intentionally or recklessly will be excluded from the policy
- This replacement policy only applies to the product and does not cover secondary or indirect losses, damages, injuries, or mission outcomes

Why We Offer This

We don't test our gear in ideal conditions. We design for worst-case scenarios. If our product becomes the weak link, we fix it.

Warranty Service

For warranty claim instructions and submission details, please visit:

<https://princetontec.com/help-desk>



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