

# ATN IR850 Supernova

LONG RANGE INFRA-RED ILLUMINATOR



USER'S GUIDE (IR850 SUPERNOVA) REVISION 2 – MARCH, 2019

## *u s e r ' s   g u i d e*

**Important Export Restrictions!** Commodities, products, technologies and services contained in this manual are subject to one or more of the export control laws and regulations of the US BIS-Department of Commerce, Export Administration Regulations. It is unlawful and strictly prohibited to export, or attempt to export or otherwise transfer or sell any hardware or technical data or furnish any service to any foreign person, whether abroad or in the United States, for which a license or written approval of the U.S. Government is required, without first obtaining the required license or written approval from the Department of the U.S. Government having jurisdiction. Diversion contrary to U.S. law is prohibited.

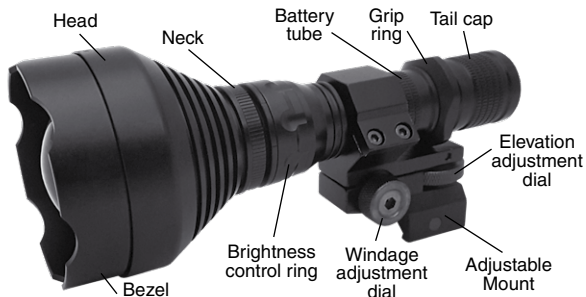


**AMERICAN  
TECHNOLOGIES  
NETWORK  
CORP.**

## INTRODUCTION

Congratulations on choosing the ATN IR850 Supernova; an extremely powerful, long range infra-red illuminator with adjustable mount, that is perfect for hunting and search and rescue use.

Before using your IR850 Supernova, please read this manual carefully. Also, refer to the troubleshooting tips for any issues/problems.



## SPECIFICATIONS

Wavelength, nm	850
Beam Angle, deg	5
Operating Temperature Range, °C	-20° to +40
Battery type	18650R rechargeable; 3.7 V Lithium Ion
Output	Four levels (mW): 5% → 90, 30% → 660, 70% → 1540, 100% → 2200
Runtime	5% at 60 h, 30% at 28 h, 70% at 7 h, 100% at 3.5 h
Lens	Aspherical glass
Material	Constructed using aircraft grade aluminum
Surface	Hard anodized finish, highly durable
Waterproof	IPX8 standard
Dimensions, mm	176 (length) x 68 (head) x 27 (tail)
Weight, g	330
Color	Black

\* ATN reserves the right to change the above specifications at any time without notice.

## FEATURES

- Constructed from aircraft grade aluminium.
- Surface: hard anodized finish, highly durable.
- LED: Using high power emitter with a long lifetime.
- Waterproof to IPX8 standard.
- Four modes of operation.
- Flawless white beam.
- Uses single lithium 18650 battery.
- Removable grip ring.
- Easy rail mounting system.
- Accessories: battery charger.
- One-year Warranty.

## TIPS WHEN FIRST USING

Remove the tailcap, insert a 18650 battery, positive of the battery towards the head.

**NOTE: Please hold the battery tube (not the brightness control ring or neck) when tightening/loosing the tail-cap.**

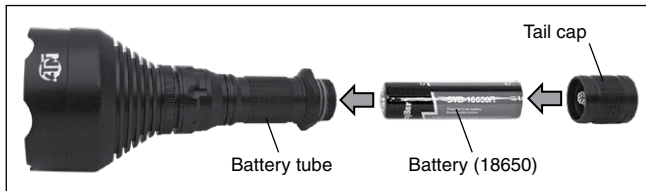
## BATTERY

**CAUTION: Only use an 18650 battery to operate this light, do not use 2 CR123 batteries as they may damage the device.**

The IR850 Supernova is available use single 18650.

1. Unscrew the Tail cap from the Battery Tube, until it is free.
2. Place Battery within the Battery Tube, observing proper battery polarity.
3. Screw the Tail cap to the right.

**NOTE: Do not use two or more rechargeable lithium batteries in series.**



## MODES

The IR850 Supernova has 4 stage output-Low at 5%-30%-70%-100%. These modes can be accessed by turning the brightness control ring.



Low output setting



Medium output setting



High output setting

## FOCUS

Turn the light to maximum output and shine it on a wall 8~10 m away. To focus the beam, hold the lens head in one hand and turn the battery tube with your other hand. Turn clockwise or counter-clockwise till the focus is to your liking.

## ADJUSTABLE MOUNT

Attach the IR850 Supernova, adjust the mount as follows:

1. Unscrew the four screws [1] securing the top of the bracket [2] and the bottom [3] half of the adjustable mount.

2. Place the top and lower parts of the adjustable mount around the IR850 Supernova.

3. Using an Allen wrench, secure the four screws [1]. Do not apply excessive torque.

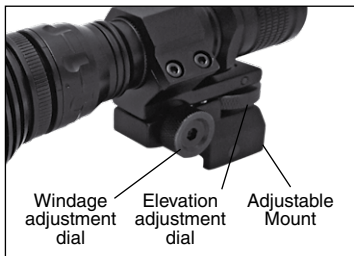


## ADJUSTMENT

To adjust the windage and elevation, the two round dials must be turned/adjusted.

The round dial on the left is your elevation adjustment. The flat dial is your windage adjustment.

Adjust each dial until your IR light is centered with your picture.



## MAINTENANCE

To prevent wear and retain water-resistance it is a good idea to lubricate the threads and o-rings if they become dry.

## CHANGE SWITCH COVER

Unscrew the switch cover retaining ring use a forceps (or round nose pliers). Then replace the switch cover and replace the retaining ring.

## TROUBLESHOOTING

### Light Doesn't Turn On

Battery tube does not tightened against the Neck or the tail-cap does not tightened.

### Light Dimming

1. Battery may be faulty. Try another fully charged battery.
2. Battery may need charging. Charge your battery, and retry.



For customer service and technical support, please contact

**American Technologies Network Corp.**

1341 San Mateo Avenue, South San Francisco, CA 94080

phone: 800-910-2862, 650-989-5100

e-mail: [service@atncorp.com](mailto:service@atncorp.com)

[www.atncorp.com](http://www.atncorp.com)