ATN IR850 Pro

LONG RANGE INFRA-RED ILLUMINATOR

U S E R   G U I D E

**AMERICAN
TECHNOLOGIES
NETWORK
CORP.**

INTRODUCTION

Congratulations on choosing the ATN IR850 Pro; an extremely powerful, long range infra-red illuminator that is perfect for the use of night vision for hunters, outdoor enthusiasts, military and law enforcement.

Before using your IR850 Pro, please read this manual carefully. Also, refer to the Troubleshooting section for tips with light issues/problems.

SPECIFICATIONS

Wavelength	850 nm
Beam Angle	2.4°
Operating Temperature Range	-20°C to +40°C
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	160 mm (length) x 54 mm (head) x 25 mm (body) x 27 mm (tail)
Weight	380 g
Color	Black

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

FEATURES

- High power LED emitter.
- Waterproof to IPX8 standard.
- Four modes of operation.
- Single lithium 18650 battery with charger.
- Removable grip ring.
- Easy rail mounting system.
- Battery charger.
- One-year Warranty.

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

BATTERY

The IR850 Pro uses a single 18650 battery.

1. Unscrew the Tail cap from the Battery Tube, until it is free.
2. Place Battery within the Battery Tube, with the positive side of the battery towards the head.
3. Screw the Tail cap to the right.

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

Tail cap

Battery tube

Battery (18650R)
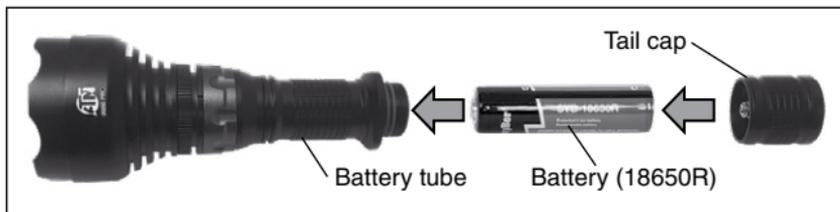
MODES

The IR850 Pro has 4 stages of output; 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 Pro, 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 Pro.

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

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

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

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

Windage adjustment dial

Elevation adjustment dial

Adjustable Mount
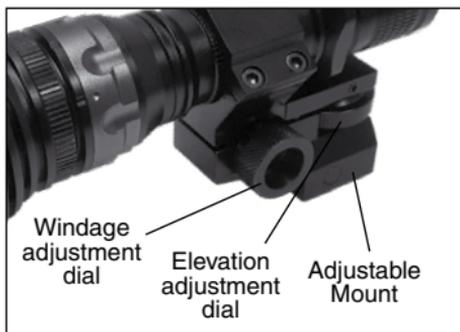
MAINTENANCE

Lubrication of O rings and threads is recommended every 9-12 months to ensure IPX8 standards. This will prevent wear, and it will aid in the prevention of water intrusion.

TROUBLESHOOTING

Light Doesn't Turn On

Check that the battery tube is fully threaded, as well as the tail cap.

Light Dimming

1. If the output is declining rapidly unexpectedly, please try another fully charged battery and/or charge your battery and retry.

2. If output is not fixed with other charged batteries, please contact ATN for further assistance.

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

www.atncorp.com