

Night Cougar



u s e r ' s g u i d e



FEATURES

- Rugged fiberglass reinforced plastic construction.
- All glass multi-coated lenses for superb clarity and brightness.
- Revolutionary F1.4 lens with amazing light transmission.
- Manual focus.
- Adjustable eyepiece.
- The Night Cougar infra-red illuminator was designed to let you see even in total darkness.
- Light weight and comfortable.
- Weather Resistant.
- Two year warranty (optional extended warranty).

SPECIFICATIONS

Total Darkness Technology	Standard
Magnification	1X
Intensifier Tube	High Res. 1st Gen +
Detection Range	150 m/yards
Recognition Range	100 m/yards
Lens System	6 elements, F1:1.4, 35 mm
FOV	30°
Diopter Adjustment	±5
Resolution.....	40 lp/mm
Power Supply	One 3 Volt Lithium
Range Of Focus	1m to Infinity
Controls	Digital
Battery Life.....	10-20 Hours
Operating Temperature	-40°C to +40°C
Dimensions	137 mm X 125 mm X 50 mm
.....	5.5" X 5" X 2"
Weight.....	0.8 kg/1.75 lbs

APPLICATION

The Night Cougar is a light weight dual eye/tube goggle system that is comfortable to wear and easy to use. Powered by two high quality 1st. gen+ light intensifier tubes and using fast precision optics the Night Cougar has one of the clearest and brightest images available in a 1st gen goggle.

Combine all of the above with a built in infrared illuminator that lets you see in total darkness and you will be on your way to exploring even the darkest of places.

The Night Cougar goggle system is a complex optoelectronic system for individual use. The device consists of an objective lens assembly, eyepieces and a body. The body contains two 1st Gen.+ image intensifier tubes assembly with an integrated high voltage power source and the three volt battery housing.

Objective lens protective covers are intended to protect objective lens from dust and scratches. It also will act as a daylight filter, allowing you to test the scope in daylight or other bright light situations.

NOTE: Do not test the scope in daylight conditions even with the daylight filter/lens cap on for more than ten (10) minutes.

OPERATION

- Take the Night Cougar out of the case.
- Install the battery into the housing with the polarity order as shown on the scope. Battery Type: 3 Volt Lithium, #CR123A .
- Push the button marked "I/O" to turn the unit on with the protective lens cover still attached to the lens. **Do not turn the unit on in the daytime without the protective lens cap on.** You should see green glow in the eyepiece. You may notice a persistent green glow for up to five (5) minutes after you have turned the unit off. This is normal for the 1st Gen Light intensifier tube.
- Observe the scene and adjust the diopter for optimal image clarity. Focus the front lenses until the image and the grain are both sharp.
- You may now enter a dark environment or simply shut the lights off in order to darken the room.
- Next, remove the lens cap/daylight filters. Adjust the front lenses for distance of the focus. You should not have to readjust the diopter.

NOTE: We suggest that you focus the diopter during daylight with the filter on.

NOTE: The front lenses should be readjusted as you view objects at different distances.

INFRA-RED ILLUMINATOR

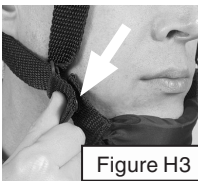
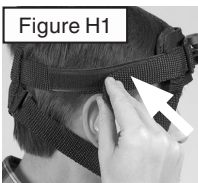
Infra-red (IR) illuminators, are common to night vision. The IR light greatly enhances the performance of the Night Cougar while remaining almost totally invisible to the naked eye. The IR illuminator on the Night Cougar is located next to the front lenses.

To turn the IR on or off push the button marked "IR". It is important to remember that the IR illuminator is simply an infra red light source, and like any light source, it may loose its effectiveness over a great distance.

NOTE: The IR will automatically turn off when the unit's power is turned off.

HEADGEAR

PART I



1) The first step that you want to take in mounting Night Cougar on your head is to fit the headgear to your size. Adjust the headgear fist before attaching the Night Cougar to it.

2) Loosen all the straps and place the headgear on your head.

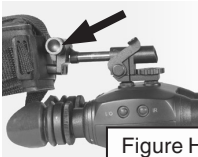
3) You will want to tighten the side straps (Figure 1) fist.

4) Then secure the top strep (Figure 2). This one is rather tight so you might need to remove it from your head, when you are adjusting the strap.

5) And last you will want to adjust your chin strap (Figure 3).

PART II

Now you are ready to mount the Night Cougar on to your headgear.



1) Remove the already adjausted headgear from your head.

2) Slide the Night Cougar on to the rail (Figure 4).

Loosen the tightening knob (on the rail) to enable you to easily slide the unit on. Don't retighten the knob just yet.

3) Push the button and move the Night Cougar up to the vertical position if you need. (Figure 4).

STORAGE AND CARE

- If the device is not to be used for extended period of time (more than 10 days) remove the battery.
- Avoid touching lenses. If fingerprints or traces of dirt or dust appear, clean their surface with a Photographic lens cleaning tissue.
- Keep lens cap/daylight filters on when not in use.
- The Night Cougar is not harmful to the user or the environment.
- Do not disassemble except to clean the front lenses and eyepieces: **it will void your warranty.**
- Evaluate the device function by looking through it in a lit environment with the daylight filter lens cap on. Never use in daylight without the daylight filter lens cap on.
- Never point the Night Cougar at a bright light source.
- Adverse atmospheric conditions such as fog, smog or haze and a lack of ambient light (moon or starlight) may diminish the effective viewing distance.

CLEANING THE EYEPIECE

You may need to clean the eyepiece of the Night Cougar from time to time in order to guarantee top performance. When you receive your Night Cougar you should check for dust on the eyepiece of the unit.

First you will need to remove the eyepiece. To do that you will need to initially loosen the 2 set screws that can be found on the base. Then unscrew the eyepiece counter-clockwise to remove it.

NOTE: You do not have to remove the set screws completely, they are very small and easy to misplace.

CAUTION: Use only Photographic lens cleaning tissue on these surfaces. Be careful not to scratch or smudge any of these surfaces. When using compressed air to blow dust away, make sure to avoid inverting the can while spraying. This can cause frozen propellant to exit the can, which can cause serious problems with the glass and phosphor screen.