

I N S T R U C T I O N S

Night Vision Monocular NVMT



www.yukonoptics.com

ENGLISH / FRANÇAIS / DEUTSCH / ESPAÑOL / ČESKY / РУССКИЙ

SPECIFICATIONS

	24021	24022	24024	24027
Visual Magnification, x	2	3	1	4
Objective lens, mm	24	42	24	50
Resolution, lines/mm	36	36	36	36
Angular Field of View	30°	20°	30°	15°
Viewing Range*, m	200	250	150	300
Eyepiece Adjustment, dptr.	±4	±4	±4	±4
Operating Voltage, V	3	3	3	3
Built-in IR Illuminator, m	100	100	100	100
Tripod mount, inch	1/4	1/4	1/4	1/4
Operating Time, hour	20	20	20	20
Temperature Range	-22°F ~ +104°F / -30°C ~ +40°C			
Maximum Humidity, %	93	93	93	93
Length, inch/mm	5.6 / 142	6.4 / 162	5.6 / 142	7.5 / 191
Width, inch/mm	3.2 / 82	3.2 / 82	3.2 / 82	3.4 / 87
Height, inch/mm	2.4 / 60	2.4 / 60	2.4 / 60	2.4 / 60
Weight, oz/kg	13.4 / 0.38	17.6 / 0.5	13.4 / 0.38	21 / 0.6

* Maximum distance at which a human figure can be recognized under ideal viewing conditions; defined as clear conditions (no fog, dust etc.) under the light of a 1/4 moon (5x10⁻² lux minimum).



UNPACKING THE UNIT

Your NVMT night vision scope comes with the following:

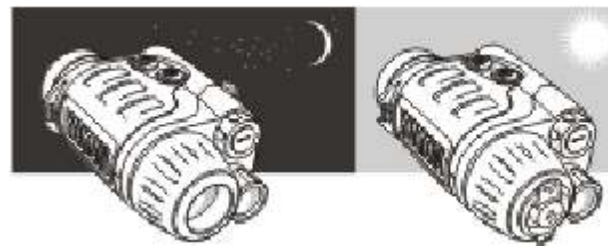
- One Carrying Case
- Lens Cap / Hand Strap
- Photo / Video Camera Adapter *
- This User's Manual
- Warranty Registration Card

* Optional

OVERVIEW

Your NVMT starlight night vision scope is a professional specification night vision device designed to provide enhanced viewing in all low light conditions including total darkness. Our US Generation I, night vision scope operates by amplifying existing light using an electro-optical system. The NVMT is a passive starlight device; it does NOT require any artificial light source, although an artificial infrared light will greatly enhance the scope's effectiveness in all facets of operation. NVMT is constructed using an electro-optical intensifying tube contained in a water-resistant composite housing. The entire unit is rugged enough for extreme field conditions but damage may occur if the scope is mishandled. The NVMT is entirely self-contained and can operate for up to 20 hours on CR123A battery at temperatures ranging from -22°F to +104°F (-30°C to +40°C). Your NVMT scope is ideal for a variety of professional and recreational uses including the following:

- Wild life observation
- Astronomy
- Boating
- Search and rescue
- And many other activities...



WARNINGS AND PRECAUTIONS

Your NVMT night vision scope was designed to provide many years of reliable service. To ensure that you get the most enjoyment out of your NVMT always obey the following Warnings and Precautions:

- Do not point the NVMT towards any light source greater than 1 lux (such as car headlights) for an extended period of time. Our NVMT utilizes an internal flash protection system, which minimizes potential damage, but long-term exposure to bright lights can damage the unit. Any such damage may void your warranty.

- Your NVMT was designed to be self-contained. Do not open the body of the scope or otherwise attempt to service this device.
- Always store the NVMT in a dry, well-ventilated room.
- Keep the NVMT away from any heating and air conditioning vents or other heating devices, direct sunlight, and moisture.
- Avoid dropping or otherwise shocking the unit. Although designed for rugged outdoor use, the NVMT incorporates a sophisticated optical system which could be damaged in extreme cases of misuse.
- Clean optical parts (lenses) with professional lens cleaning supplies designed for use with multicoated optics.
- Clean the exterior of your NVMT with a soft, clean cloth.

Damage to this device from failure to observe these warnings may void the NVMT's warranty!

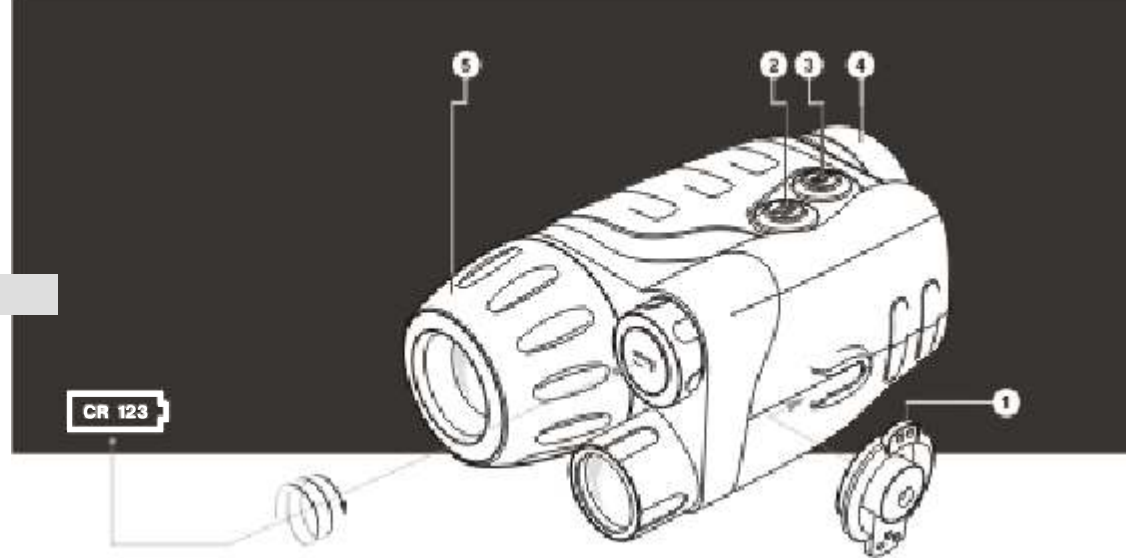
BATTERY INSTALLATION

Your NVMT runs on one battery - CR123A. To install, unscrew the battery compartment cover, insert the battery into the battery compartment so that the positive (+) and negative (-) terminals of the battery match the markings inside the compartment, replace the battery cover carefully. Do not overtighten.

USE AND TESTING

Your NVMT operates using one battery - CR123A. Make sure it has been installed according to instructions found in the battery installation section of this manual.

- If you wish to test your night vision device in a lighted area, be sure the lens cap is in place prior to pressing the "ON" button. The lens cap has a pinhole opening to admit a small amount of light for testing purposes.
- Move into a dark area before activating the NVMT light amplifier.
- Remove the lens cap (1) and fasten it to the body as shown in the picture.
- Activate the device by pushing the "ON" button (3).



- If the subject to be viewed is in a completely dark area, including lowlight shadow areas, activate the infrared illuminator by pressing the "IR" Button (2) located next to "ON" button.

- Direct your NVMT device at an object at a distance approximately 100 yds. Adjust the eyepiece and objective lens diopter setting to focus the unit by rotating the eyepiece (4) and objective lens (5). After the adjustment, do not rotate the eyepiece irrespective of the distance and other conditions.
- Direct your NVMT device at the subject to be viewed and adjust the final focus by rotating the objective lens (5) focusing ring until the image quality is optimal.
- The green LED indicates that the light amplifier unit is on. The red LED indicates that the IR illuminator is on. Do not store your NVMT when any of the indicators are lit. When you finish using your NVMT device, turn off the entire unit including the IR illuminator and light amplifier. Return the lens cap to the objective lens.

CAUTION!

Your NVMT can be used in extreme cold. However, when the unit is brought back into a warm environment, you **MUST** wait approximately 5 HOURS before using the unit again. Failure to do so may result in damage as a result of condensation accumulating on the internal circuitry of the unit.

MAINTENANCE

Maintaining the NVMT is simple:

- Clean the lens with professional lens cleaning supplies intended for use with multicoated optics.
- Blow any dust or dirt off the lenses using dry, compressed air.
- Clean the NVMT housing with a soft, clean cloth.

STORAGE

Always store the NVMT (in its case) in a dry, well-ventilated area away from heating/air conditioning vents (or other heating devices). Temperature should be +10°C. Humidity should not exceed 70%. Remove the battery if the device is to be stored for longer than 2 months.

CUSTOMER SERVICE

Should you have trouble with your NVMT, please return the scope to your retailer for repair or replacement.

TROUBLESHOOTING

- **The NVMT does not work...**
Make sure that the battery is installed properly and that it is in good working condition. Depress the on switch to start the NVMT charging system.
- **Condensation collects on the unit...**
Your NVMT can be used in extremely cold temperatures. However, when the unit is brought back into a warm environment, you must wait approximately 5 HOURS before using the unit. This is due to condensation that may accumulate on the electronic circuitry.
- **I cannot focus the NVMT...**
Adjust the objective lens and eyepiece according to the instructions listed in the Operation section of this manual. If the NVMT still does not focus - clean the optical parts thoroughly - they may be fogged or dirty.

WARRANTY

The Manufacturer warrants its night vision products against defects in materials and workmanship for a period of three years from the original date of a purchase. Any device returned for warranty service must be judged by the Manufacturer as having been used according to its original design intents. As such, misuse, neglect, or any abnormal use is not covered by this warranty. The Manufacturer will repair or replace such products or parts thereof, which, upon inspection by the Manufacturer, are found to be defective in either materials or workmanship. As a condition of the Manufacturer's obligation regarding warranty work, the product must be returned to the Manufacturer with a satisfactory proof of a purchase. It is highly recommended that you fill out and return your warranty registration card to ensure the warranty coverage. This warranty is null and void if equipment has been altered, tampered with, modified, or otherwise abused, mishandled, or subjected to unauthorized repairs. The Manufacturer disclaims any other warranties, either expressed or implied, except as expressed herein. The sole obligation of the Manufacturer is to repair or replace the covered device.