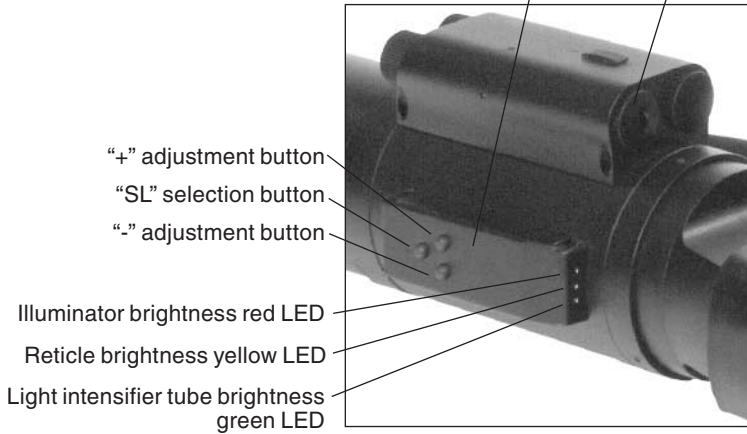
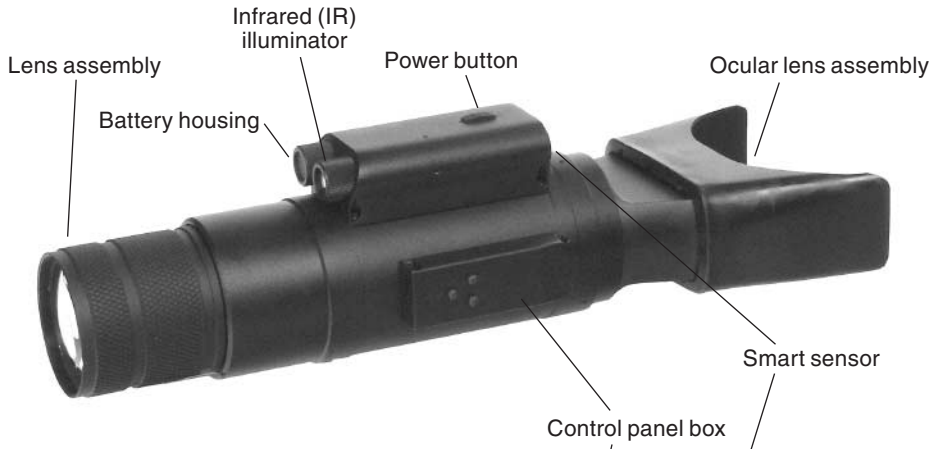


# Voyager



*u s e r ' s   g u i d e*



# APPLICATION

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The Voyager Night Vision Monocular is designed for observation and identification of objects at low light levels (less than 1.0 lux) in the temperature range from -40°F up to +110°F.

The Voyager Night Vision Monocular is a complex optic-electronic system for individual use. The device consists of the objective lens assembly, ocular lens assembly, IR illuminator, and the body. The body contains the image intensifier tube assembly with the integrated high voltage power source and the battery housing. The battery housing cover houses two 3 Volt Lithium, CR#123A batteries. Objective lens protective cover (not shown) is designed to protect the Voyager from high-level illumination. The pinhole in the center of the protective cover allows the user to check the operation ability of the device in daylight conditions.

## MASTER POWER SWITCH

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The device is switched on by turning the main switch located on the top of the scope. The Voyager is controlled by a built-in computer that regulates the functions of the scope.

## LIGHT INTENSIFIER TUBE BRIGHTNESS

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To adjust the brightness of the Voyager you will need to press the “SL” (Select key) key until the green light lights up on the control panel. You can then adjust the power of the scope using the “+” (increase) and “-” (decrease) key.

## INFRARED ILLUMINATOR

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To adjust the magnitude of the IR you will need to follow the same procedure as above, except when pressing the “SL” key, please wait for the red light to light up.

## SLEEP MODE

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One of the greatest new features your Smart scope has is a “SLEEP” mode. This feature greatly extends the life of your scope. Your scope will be automatically shut down if idle more than 20 minutes. Activity means pressing any of the buttons or simply moving it back and forth away from your face (when the smart sensor is activated). If your intention is to continue using the Voyager simply press “SL” and it will come back on.

**NOTE:** *The scope will be capable of running on “SLEEP” mode for more than 10 days and will be ready to use at any moment. You don’t have to turn the unit off while you are using it (Voyager will remember all your setting while “sleeping”). Use “ON/OFF” switch only to store the scope. The proximity sensor will snap into action better in dark environment. Daylight testing and/or other situations with intensive lighting may cause a temporary decrease of the proximity sensor’s performance.*

## FOCUSING

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To focus the Voyager simply adjust the front lens as needed.

## LOW BATTERY INDICATOR

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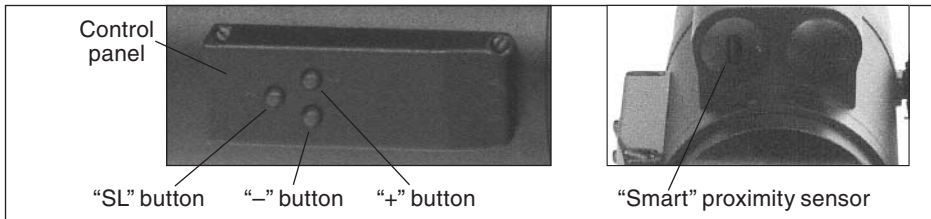
When one of LEDs on control panel starts blinking it is time to change your batteries.

# SMART DIGITAL TECHNOLOGY

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Smart Total darkness Technology finally provides the user total control in the hi-tech industry of night vision. The Smart Series night vision monoculars have been designed with the latest computer technology. Onboard computer detects the users intention of looking through the oculars. When the ocular is brought to the users eyes the unit will be automatically turned on. When removed from the eyes the monocular will be turned off (you must activate the proximity sensor) . The user will never have to worry about turning his or her monocular on or off. Smart series monocular automatically sense when it is no longer being used, and will shut down and enter into sleep mode. All the controls and buttons are digital. Even if your batteries are low, don't worry the smart series will let you know.

To use the smart sensor of the Voyager and save the life of the scope as well as your batteries, press both the "SL" key and the "+" key. The Voyager will be now turned off when you move away from the scope. It will be turned on when you move back to the scope.



## OPERATING

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The Voyager is the second generation computerized night vision device that provides a big performance advantage over the first generation devices. This system requires substantially less light to function and produces an increased light amplification at all levels. Eventually you will see a much brighter, well defined image in the eyepiece.

As well as generally out performing their first generation counterparts, second generation tend to have a longer operating life. Our patented Smart Technology increases that life in 5 times. Your Voyager is also equipped with auto brightness control to avoid for scope to be overexposing to ambient light, while it maintains a balanced level of light in the eyepiece.

Generation two technology employs a complex micro channel plate consisting of tens of thousands of tiny electrically charged tubes that concentrate and increase the charge from the photo-cathode, and create a highly accurate electron beam, recreating the visual image on the phosphor screen.

## PREPARATION FOR OPERATION

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Before getting started make sure to follow these steps:

- Take the monocular out of the case.
- Install the batteries into their housings with the polarity order shown on the battery housing cover. Battery type: 3 Volt Lithium, #CR123A
- Switch on the monocular **with the protective lens cover still attached to the lens.**
- Make sure that the green luminance of the light intensifier tube is present.
- 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 surface with a soft dust cloth and glass cleaner.

- **Keep lens cap/daylight filter on when not in use.**
- Avoid contact with dust, steam, and gas.
- The Voyager is not harmful to the user or the environment.
- Do not disassemble except to clean the front lens and the eyepiece: it will void your warranty.
- Evaluate the scopes 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.**

## TROUBLESHOOTING

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**Q:** Flashes, flickers, or clicking occur while operating

**S:** If it occurs within the first five minutes of inserting new batteries, it is normal and the device will resume normal operation soon thereafter. If it occurs for more than 10 minutes, contact your dealer or other authorized representative for instructions.

**Q:** Dark spots on screen.

**S:** These are cosmetic blemishes in the intensifier tube or dust particles accumulated on the screen. Just like a TV, night vision intensifier tubes attract dust particles. These are easily cleaned using photo-type cleaning equipment.

**Q:** Image not clear.

**S:** Adjust front lens at night. If problem persists, turn on IR.

**Q:** Fixed-pattern noise in a honeycomb shape.

**S:** Usually a cosmetic blemish characterized by a faint honeycomb-type pattern. It usually occurs when viewing very bright lights. Adjust the brightness of the unit to reduce noise.

**Q:** LED's keep turning off after a few moments.

**S:** This is the normal mode of operation. It will increase your scope batteries life and make you harder to detect

# FEATURES

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- Automatic and manual brightness control
- IR illuminator
- Camera/Camcorder adaptable
- Manual focus
- Installed S-25 photocathode with microchannel and fiberoptic plates
- 25mm flash resistant intensifier tube
- Water resistant
- Panoramic eyepiece for better viewing
- Superb multi-coated 6 element lens system
- Daylight filter
- Computerized Controls activate Voyager automatically
- Proximity Sensor increases the life of Voyager fivefold
- Adjustable tube and IR brightness.

# SPECIFICATIONS

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Magnification .....	4.5x
Intensifier Tube .....	2nd Gen; 25mm
Lens System .....	110mm; F1.8
Field of View .....	12°
Resolution .....	32 lp/mm
Minimum Light Req. ....	5x10 <sup>-3</sup> lux
Range of Focus.....	3' to ∞
Power Supply.....	Two 3V Battery
Battery Life .....	30 hours
Dimensions.....	37.5x10.0x7.2cm
Weight.....	1.8kg