

---

# Night Vision goggle

---



**User manual**

January 2023



# Contents

Introduction	2
Specifications	3
Control & operation	4-6
Operational Maintenance	7-8
Troubleshooting	9
Product Warranty	10

## Introduction

The device is a high performance Night Vision Goggle.

Incorporating an Image Intensifier Tube, this compact, lightweight unit will permit rapid surveillance of the surrounding area under low light conditions as well as driving.

The Night Vision Goggle is a high performance, waterproof goggle with two eyepieces, one 100mm Objective lens and 18mm tube.

The Night Vision Goggle is powered by two 1.5v Alkaline or Lithium Batteries or one 3.0v Lithium Battery; these batteries allow the device to operate for about 40 hours respectively.

Please Insert the AA Batteries with the + volts sign first.

After battery insertion check that the Night Vision Goggle is operating, make sure that the Objective Lens Cap is in place, If checked under daylight conditions and the high light photodiode is blocked with the special cap supplied.

# Specifications

<b>Lenses, focal length, mm</b>	<b>F25</b>
Magnification, X (Min)	1
Field of View, degree (Min)	40
Focus limit, m	20cm to $\infty$
Diopter adjustment	+2 -6
Eye base	58mm to 72mm
Battery type	2 x AA
Operation time (without IR), hour	40Hr
Temperature range of work, °C	-30°C to +50°C
Weight, kg	0,5
Dimensions, mm	157x139x76

## **Control & Operations**

### **Focus:**

The Objective Lens focus is adjustable from 10M to infinity by rotation of the furthestmost rubber knurled ring.

### **Diopter adjustment:**

Adjustment is possible from +4 to -4 diopters by turning the scalloped diopter rings.

### **Interpupillary adjustment:**

Interpupillary adjustment is from 58mm to 72mm and is achieved by sliding the diopter scalloped rings from left or right.

### **On/Off Switch:**

This control is located on the top left hand side of the main body and is rotated anti-clockwise. There are three coded positions as follows: OFF, ON, IR.

## **High Light Cutoff:**

To prevent damage to the Image Intensifier Tube a high light cutoff device is fitted.

## **Battery:**

The battery compartment is located on the bottom right hand side of the system when looking through the unit. The device is powered by two alkaline batteries 1.5V, or Lithium Battery.

## **Low Battery Indicator:**

A red LED will be illuminated in the right eyepiece when the battery is low and has about 60 minutes of operating life left.



**Fig. 1- Night Vision Goggle**

No 1 – Objective Lens Focus Ring.

No 2 – Battery compartment.

No 3 - IR LED illuminator.

No 4 - ON/OFF switch.

No 5 –Interpupillary and Diopter adjustment.



# **Operational Maintenance**

## **Lenses:**

Gently remove all dirt from lens surface. dirt that is firmly stuck to any lens surface should be removed by allowing a few drops of water or Lens Cleaner to first soften the dirt and then gently remove with a soft damp cloth.

## **Battery:**

Unscrew Battery Cap and inspect housing interior for dirt or verdigris on the Battery Contact or spring. If verdigris or dirt has accumulated, clean out with a cloth or brush. If any battery has leaked, thoroughly remove all liquid with a damp cloth and dry fully.

Replace O-Ring on the inside of the Battery Cap if showing signs of cracking or perishing. Apply a little Silicone Grease to the O-Ring and O-Ring surfaces when replacing Battery Cap.

The Batteries should be removed during all maintenance operations and all periods of storage or while not in operation

## **Night Vision Goggle:**

After operational use or long periods of storage wipe the body with a clean damp cloth.

Dry well before replacing in case. Make sure that the ON-OFF switch positions are free of dirt and can be easily seen i.e. color identification. Check Objective Lens focus.

## **Lens Cap:**

Remove and wash in clean fresh water. Dry well before replacing on Objective Lens. If any part of the rubber shows any signs of cracking or perishing it should be replaced.

## **Eyeguards:**

Wash with freshwater then dry well. If there is any sign of cracking or perishing it should be replaced.

## **Carrying Case:**

Remove all loose dirt. Clean interior with brush or cloth, moistened with clean water if required. Allow interior to dry fully before replacing Night Vision Goggle or any accessories.

# Troubleshooting

Problem	Test	Corrective Action
<b>No Image</b>	Check position of ON-OFF Switch	Switch on Remove
	Check Lens Cap	Replace if required
<b>Clean</b>	Check Battery conditions	Keep contacts
	Check Battery Cap	Tighten
<b>Weak Image</b>	Check Battery Cap	Tighten
	Check Battery conditions	Replace if required
<b>Poor Focus</b>	Check Objective Lens Focus	Adjust as required
	Check Diopter Focus	Adjust as required
	Check Interpupillary setting	Adjust as required

The above Chart contains most of the trouble shooting situations, which may occur, and the corrective action to take. It is, of course, not possible to cover all malfunctions or all tests and inspections, which might be required. If a malfunction should occur that is not listed in the above, return PI-05-2 to the Main Base for further examination. Make sure to include a written report on the malfunction.

## **Product Warranty**

This product has been manufactured and tested to the highest quality standards by JLV Technology and is free of defects in material and/or workmanship at the time of shipment.

JLV Technology warrants this product against defects in material or workmanship for the specified period (see below) from the original date of purchase. JLV Technology will repair (or at its option, replace with the same or comparable model) parts only or, any product or part of the product, which, on inspection by JLV, is found to be defective in material and/or workmanship, under normal use and maintenance.

What this Warranty Does Not Cover? JLV Technology is not responsible for any problem that is caused by improper installation, mishandling, misuse, negligence, accident, repair and/or alteration by anyone other than manufacturer authorized person.

Our limited warranty is void if a product is returned with removed, damaged or tampered labels or any alterations (including removal of any component or external cover).

Product:

Date:

Warranty period:

Serial number:

Tube number: