



NIGHT VISION GOGGLE MAINTENANCE SERVICES

EXTEND NVG LIFECYCLES. INCREASE NVG PROGRAM ROI

Night Flight Concepts (NFC) night vision goggle (NVG) inspection and repair capabilities provide customers with a serviceable NVG that meets Federal Aviation Administration (FAA) certification under NVG 145 Repair Station # N5ZR113B.

MARKET NEED

As with most technological devices, NVGs are required to have inspections periodically and need to undergo regular services and repairs in order to maintain air-worthiness, function and reliability. The FAA and NVG manufacturers, for example, recommend that NVGs be inspected every 180 days. NVG cockpit Supplemental Type Certificates (STC) require NVGs operated in that specific aircraft be inspected every 180 days. Regrettably, many organizations with various types of NVGs do not have a facility or the resource they need to have all the goggles inspected and repaired.

Many organizations face limited access, if any at all, to calibrated NVG inspection equipment and parts. For some operators, a limited budget restricts the ability to purchase the test equipment needed to meet inspection requirements. For other organizations, they simply don't have the resources to retain the experienced personnel in-house to handle the detailed maintenance techniques and repair procedures needed to adequately return a damaged NVG to service standard. In the end, many organizations are forced to use NVGs that are not operating at proper performance levels due to lack of funding for new goggles and are unaware of upgrade options for enhancing existing fielded equipment.

SOLUTION OVERVIEW

Maintenance Services:

Inspection, Repair, Upgrade & Warranty

Night Flight Concepts offers a range of Maintenance Service Options to assist with NVG program management.

Inspection

An NVG Inspection is an in-depth procedure that is conducted by experienced, highly trained and certified technicians using calibrated testing equipment and state of the art inspection, servicing and repair procedures. With Night Flight Concepts Inspections, the NVG will be returned within 72 hours along with a test data sheet, air-worthiness compliance

certificate and an NVG maintenance logbook. On the fourth inspection, an NVG trend analysis sheet will be generated and provided. No other NVG inspection and maintenance provider has the ability to provide FAA Certification with NFCs FAA approved Process Specification.

Repair and Upgrades

Night Flight Concepts Upgrade Options on existing goggles can include—but are not limited to—optics, fine focus objective assemblies and image intensifiers. Night Vision Goggle technologies continue to evolve rapidly—adding to the strain and complexity for organizations seeking to keep their investment current. For example, the majority of currently fielded night vision goggles are equipped with class “A” objective lenses instead of the more civil suitable class “B” due to multitude of colors being used in today's cockpit instrumentation. Night Flight Concepts works with their clients to provide flexible, cost-effective options that leverage existing NVG investments to full capacity and integrate new parts to meet industry standards or integrate technology innovations in accordance with client needs and priorities.

Warranty

Night Flight Concepts offers different options for equipment sold. Typically an extended one year NVG warranty after manufacture expires with a minimum 2 year service agreement. A one year warranty is offered on all new components installed during repair.

SOLUTION HIGHLIGHTS

Night Flight Concepts owns and operates an FAA-approved Part 145 NVG Repair Station #N5ZR113B. As such, the company has the authority to conduct and certify the air-worthiness of the inspections. They are also authorized to remove and replace the parts of NVGs and to do repairs on such models as:

- ITT – F4949 series
- ITT – F4944 series
- ITT – F4210 series
- ITT – F4212 series
- Litton of Northrop Grumman – M949 series
- Litton of Northrop Grumman – N929 series
- L3 - M949 series
- NIVISYS – NVAG series
- US Army – AN/AVS-6 series
- US Air Force / Navy – AN/AVS-9 series

For customers with various types of NVGs, Night Flight Concepts is the single source solution. Night Flight Concepts is able to inspect and repair all types of NVGs that are currently being operated. Optional 180-day service contracts for NVGs under the 2 year and 3 year agreements are available for recurring customers to reduce inspection pricing significantly.

Night Flight Concepts offers an alternative to purchasing an expensive new set of NVG's with our in-house repair and upgrade option. Repair capabilities include replacement of image intensifiers (of varying performance levels and functions), monocular housings, pivot & adjustment shelves, circuit boards, battery packs, and optics. Alternatively, replace worn out lower performing NVGs with a cost-effective upgrade to a higher performing system.

KEY MAINTENANCE OPTIONS

180-Day 13 Point Inspection

Includes battery pack, helmet mount, adjustment ranges, optics, current draw, image intensifiers nitrogen, gain, gain differential, resolution, infinity focus, diopter setting, collimation, and purge.

Standard Repair

Replacement of pivot & adjustment shelf, monocular housing, purge valves, o-rings, optics, circuit boards, battery pack wiring, image intensifier, performance upgrades.

Standard Upgrade

Upgrade image intensifier, fine focus objective lenses, 25mm eyepiece, class "B" objective lens, dual eye-span, low profile battery pack.

Warranty

1 year warranty on all new components installed, one year extended warranty on NVG's after manufacture warranty expires.

FEATURE HIGHLIGHTS

NVG Inspection Service

- FAA Return to Service Certificate
- Single point monitoring of NVG performance levels and degradation
- Monitoring of regulatory changes supporting continued air-worthiness and NVG component manufacturing updates

NVG Repair Service

- Support line for NVG operators
- Repair existing NVG to perform just as new

NVG Upgrade Service

- Replace class "A" objective lens with class "B"
- Replace ¾ turn and 1 turn objective lens assemblies with 2 turn fine focus
- Replace old lower performance image intensifiers with new high performance image intensifiers

Warranty Service

- One year warranty on all replaced components
- One year warranty added on NVG assembly after manufacture warranty expires (service contract required)

BENEFITS HIGHLIGHTS

Enhance ROI. Increase Readiness.

Maintenance services play a critical role in a comprehensive night vision solution. After equipment is purchased, delivered and training is completed—the real performance test for a program begins. The lifecycle for fielded NVG equipment depends acutely on having an integrated strategy for maintenance. Night Flight Concepts Maintenance Services provide cost-effective options to extend the life of your existing NVG equipment, resulting in a greater return on investment (ROI) for your overall night vision program.

- Extend the ROI on your NVGs
- Prevent undue health, mission and safety risks associated with equipment disrepair or improper calibration
- Eliminate costs associated with unplanned downtime or mission failures due to equipment disrepair



Night Flight Concepts (NFC) is a comprehensive night vision technology (NVT) provider specializing in night vision goggle (NVG) pilot and crewmember flight training, NVG service & maintenance repair, NVG maintenance technician training, and night vision program support for law enforcement agencies, air medical/rescue services, military organizations, and government task force agencies worldwide.

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