

# Night Vision Systems Test House

The Night Vision Systems Test House (NVSTH) – managed by QinetiQ under the Long Term Partnering Agreement (LTPA) Contract on behalf of the MOD and located at MOD Boscombe Down. The facility is primarily used – is primarily used for examining and assessing the compatibility of aircraft cockpit and equipment lighting in calibrated moonlight and night sky generated environments.

It can be used for the assessment of land-based vehicle equipment lighting in a calibrated environment. Additionally, it can provide night training for the use of a range of night vision goggles for aircrew, ground-based vehicle users, and military personnel in a calibrated, repeatable simulated environment.

This facility is a 35m x 22m x 8m dark tunnel enclosure, capable of accommodating:

- Certain fixed and rotary wing aircraft
- Land-based vehicles and small boats
- Training military personnel with night vision systems
- Offensive and defensive laser operations



## Indoor laser range

The NVSTH can facilitate indoor Class 4 laser use by aircraft, vehicles and personnel.

## Sunlight assessments

A powerful daylight spotlight can simulate strong sunlight conditions to allow sunlight visibility assessments to be made on vehicle instrumentation panels.

## Thermal imaging assessments

The facility has an array of thermal imaging cameras, infra-red (IR) targets, optical targets, and IR collimators to help with thermal imaging and electro-optical (EO) assessments.

## Facility characteristics

The Night Vision Systems Test House conforms to Mil Standard 3009 Feb 2002, and provides an environment for the testing of electro-optic and night vision compatible devices and systems on air, ground or water-based vehicles:



- Apex moon and horizon moon, capable of creating various moonlight simulations
- Night sky projector suspended from the ceiling used to generate overcast and starlight conditions
- Daylight illumination
- Resolution targets supporting the USAF 1951 test patterns
- Night vision goggles performance test set
- Infra-red collimator for systems boresight and minimum resolvable temperature measurements
- Spectro-radiometer: 350-1050 nanometres
- Thermal imaging camera ranges 3-5 $\mu$ m and 8-12 $\mu$ m
- Spectrally correct paints for landscape targets
- A portable heated IR target system capable of testing electro-optical definition to 0.1°

## Collaborating with QinetiQ

At QinetiQ we bring organisations and people together to provide innovative solutions to real world problems, creating customer advantage.

Working with our partners and customers, we collaborate widely, working in partnership, listening hard and thinking through what customers need. Building trusted partnerships, we are helping customers anticipate and shape future requirements, adding value and future advantage.

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