

TROYA



MAIN TESTING STATION FOR NIGHT VISION DEVICES

TROYA's Testing Stations are a derivative of the company's real hands-on experience with the Night Vision world. Due to the company's high expertise level and knowledge of the various technologies and applications in this content world, TROYA offers a wide range of Testing Stations, in order to accommodate the quality management and preventative maintenance of NVDs used in field conditions. A routine checkup is required in order to ensure that any equipment is fully functioning and without harm, before, during and after operational use. This is highly important when dealing with NVDs. The Main Testing Station performs any type of required tests to determine the condition of a given NVD. The Main Test Station is autonomous and can be operated at any maintenance center. It performs checks for- collimation, distortion, resolution, luminance gain, optical defects, as well as additional factors.

- ⊕ Various Types of Tests and Measurements
- ⊕ Battery and Electrically Operated
- ⊕ Suitable for Various Types of NVDs
- ⊕ Laboratory and Field Grade
- ⊕ Autonomous and Portable



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MAIN TESTING STATION

FOR NIGHT VISION DEVICES

Night Vision Devices (NVDs) are specially operated devices, which highly promote the capabilities, output and survivability of an operative force in hostile or combative territory. After having been activated in various types of environments, these robust, ruggedized devices still require a delicate, experienced touch when returning from the battlefield, in order to achieve best productivity in future use.

TECHNICAL SPECIFICATIONS:

Output Luminance Level	Continuously Variable from 0.05 mfl to 1.5 mfl
Collimator's Focus	∞
Diopter Scope Range	+2D to -5D
Resolution Target	Per USAF 1951, includes groups: A=USAF 1951 group 2; B=USAF 1951 Group 3; C=USAF 1951 Group 4
Distortion Target	Defines 4% pincushion and barrel distortions
Screen Quality Target	Defines the Image Intensifier quality zones: 1st-zone – circle \varnothing 5.6mm; 2nd-zone – annulus from \varnothing 5.6mm to \varnothing 14.7mm; 3rd-zone - annulus from \varnothing 14.7mm to \varnothing 18mm. Includes reference spots with following diameters: 0.025mm, 0.075mm, 0.150mm, 0.230mm, 0.300mm
Collimation Target	Defines four collimation limits: $\pm 1^\circ$ and $\pm 0.5^\circ$ in horizontal and $\pm 0.5^\circ$ and $\pm 0.25^\circ$ in vertical directions
Voltage/ Current Display	LCD Readout Display
Power for Goggle Under Test	1.5-3 - ± 0.1 VDC
AC Line (mains) Voltage	85 to 250V AC, 47 to 63 Hz
Internal Power Source (Rechargeable Battery)	12 VDC, 7 Ah
Battery Operational Cycle	18 hours (fully charged)
Battery 80% Recharge Cycle	8 hours (approx.)
Dimensions: Length X Width X Height (max)	600mm X 400mm X 300mm
Weight	16 Kg Max.

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