TEST EQUIPMENT

NVD GAIN BENCH

Hoffman ENGINEERING

ANV-120A

The ANV-120A Night Vision Device (NVD) Gain Bench consists of a 12-inch integrated sphere with a special low-light-level lamp source and variable aperture. An amplified detector probe with adapters that fit over the eyepiece of the goggle or night scope under test, and an electronics console which provides power and display functions for the set. The system is self-contained for measurement of goggle gain in terms of output luminance per unit of input luminance. The test set digital displays indicate source lamp current, source luminance, in footlamberts, output screen luminance in footlamberts, goggle voltage and current demand, and system gain.

The lamp source housing has a series of fixed and variable apertures, which attenuate the light entering the sphere from a 10-watt quartz-halogen lamp. The amount of light projected into the sphere is controlled by a log taper aperture driven by a micrometer.

Nearly all NVD types can be tested through the use of eyepiece and objective ANV-126A-XXX adapters that are sold separately. The ANV-120A is a laboratory grade instrument with complete system calibration and NIST traceability.

BRINGING

INNOVATION

TO

LIGHT

Product Specifications

- **Configuration:** 12" Sphere Light Source (monitored)
  Gain Detector Module
  Control Console with power supplies for sphere and NVD
- **Light Source Range:** 2 x 10^{-3} to 5 x 10^{-6} Footlamberts at 2856K
- **Monitor Resolution:** Source Monitor, 1 x 10^{-7} Footlamberts
- **Max. Scale:** 1.9999 x 10^{-3} Footlamberts
- **Color Temp:** Adjustable, 2856K Nominal
- **Spectral Distrobution:** Within 10% at 2856K Between 450nm and 900nm
- **Source Accuracy:** Within 3% of NIST Standard at 2 x 10^{-3}Fl
  Within 4% of NIST Standard at 2 x 10^{-5}FL

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Export of this product is regulated by State Department, ITAR, Title 22, CFR 120-130.