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ANV-1026 NIGHT VISION WEAPON SIGHT TEST SET



Hoffman Engineering's Model ANV-1026 Night Vision Weapon Sight Test Set is a self-contained portable test set suitable for all levels of weapon sight maintenance. The test set provides accurate checks for weapon sight resolution, image quality, infinity focus, and power consumption. The luminance probe and adapters provide direct measurement of weapon sight gain.

The ANV-1026 is housed in a ruggedized case that conforms to MIL-T-28800D, providing a portable, water and dust-resistant package suitable for field deployment. The test set has a rechargeable internal battery that is capable of providing 20 hours of remote operation.



Specifications

Test Set Description:

The ANV-1026 is an electro-optical test system featuring a large-aperture optical collimator, combined with high-stability silicon detectors, visible and near infrared (IR) Light Emitting Diodes (LED), and proven solid-state electronics. The test set provides an accurate reference for optical alignment, infinity focus, and all electrical weapon sight parameters, in a portable test set.

Optics:	<ul style="list-style-type: none"> • Six Element Collimator, Folded Design • 400mm Effective Focal Length (EFL) • 4 Inch Diameter Reticle, Kinematically Mounted
Standard Test Reticle	<ul style="list-style-type: none"> • 1 and 2mR Graduation, Crossed Scales • USAF Group 0 to 6 Resolution Target
Collimator Accuracy:	<ul style="list-style-type: none"> • 100 LP/mm at the Test Reticle • Infinity Focus: +/- 0.01 Diopters
Gain Probe	<ul style="list-style-type: none"> • Silicon Based Detector, 15 Degree Field of View • Mechanically Adaptable to Weapon Sight Eyepieces
Light Sources:	<ul style="list-style-type: none"> • Back Illuminated Reticle, Diode Array • LED Arrays are Individually Monitored • 820nm Near IR (Resolution and Gain) • 650nm Red Visible (Collimator Alignment) • 550nm Green Visible (Gain Probe Calibration)
Test Set Displays	<ul style="list-style-type: none"> • (3) 3Ω digit, Filtered LED Displays
Test Set Power:	<ul style="list-style-type: none"> • Operates On Internal Battery or AC Line Voltage
Test Set Battery	<ul style="list-style-type: none"> • Rechargeable, Sealed Lead Acid • 20 Hour Operational Cycle • Low Battery Indicator Circuit
AC Line Operation:	<ul style="list-style-type: none"> • 90 - 260 VAC, 50-60 Hz
Dimensions:	<ul style="list-style-type: none"> • COVER REMOVED 35 x 61 x 46 Centimeters • COVER ON 46 x 61 x 46 Centimeters
Weight:	<ul style="list-style-type: none"> • COVER REMOVED 47 Kg • COVER ON 54 Kg

External Battery Test Capability:

Weapon sight batteries may be checked under load using the test cable provided. The test set load is appropriate for 1.5 volt cells of any type. When the battery test cable is inserted into its jack, all other test set functions are suspended.

Eyepiece Diopter:

The focus adjustment range or Diopter Adjustment Range of the weapon sight eyepiece is checked using the optional diopter scope and an adapter that is specific to the weapon sight eyepiece configuration. The diopter scope, ANV-126-040, is calibrated in whole diopter steps from +2 to -6 diopters, and is accurately calibrated at zero diopters. The eyepiece adapter is used in common with the gain test probe.

Weapon Sight Voltage and Current

Weapon sights may be tested using the internal batteries or powered through an adapter cable by the ANV-1026 test set. When powered by the test set, the weapon sight voltage may be adjusted to check for proper operation of the image tube and the low battery indicator, if present.

