Characterization Setup for Advanced Image Intensifier Tubes and PNVD's

CHARACTERIZATION TEST

SALIENT FEATURES

Camera: High-Resolution CMOS type visible camera with focusing lens tocollect the image of the eyepiece and remove the subjectivity of human eye analysis

Mechanical Interface: Camera mount, Mounting Rod and Ring

Touch screen: Built-in LCD colour touch screen for user interface for control and navigation. Test results viewable in Real Time Video as well as downloadable for later analysis and report generation.

FOV: 40 °

Image Quality: MTF or USAF Target

Light Source: a) 560 nm for automated calibration test set
b) 700 nm
c) 830 nm

Radiation Level: 0.025 mfL (0.1mcd/m²) to 3 mfL(10 mcd/m²)

Target Pattern : a) Knife-edge target
b) USAF Resolution target
c) Concentric circles target
d) Distortion target

Interface: USB output for Test Data Download

Power Supply: 1.5 / 3VDC and 3.8VDC

UNIT UNDER TEST (UUT)

18 mm IMAGE INTENSIFIER TUBES

Gen 3

Multi-Alkali

PASSIVE NIGHT VISION DEVICES

Goggle

Binocular

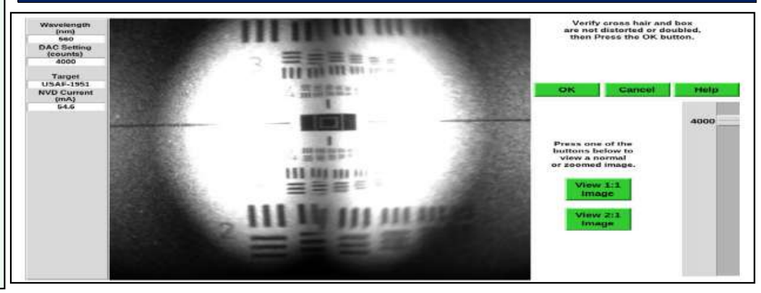
Night Scope

ACCESSORIES

Camera

Lens

GRAPHICAL USER INTERFACE



TEST PARAMETERS

- **Intensifier Check**
- **Infinity Focus**
- **Low Light Resolution**
  (Automatic MTF or manual with 3 bar target)
- **High Light Resolution**
  (Automatic MTF or manual with 3 bar target)
- **Bright Light Resolution**
  (Automatic MTF or manual with 3 bar target)
- **Low light gain check**
- **High light gain check**
- **Spot Defects** *(automatic or manual detection)*
- **Distortion Test**
- **Collimation Test**

USAF-1951 TARGET FOR CHARACTERIZATION