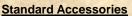
# PORTABLE PASSIVE NIGHT VISION DRIVER/INFANTRY GOGGLE SYSTEM



## Main Features

- Optimum resolution, high gain and photo response to near infrared
- · Hand held and on head strap for hands free operation
- · Light weight, maximum weight 680grams
- Universally available "AA" batteries
- · Momentary "IR switch"
- "Automatic highlight cutoff" to protect image intensifier
- "IR-on indicator"
- "Low-voltage indicator"
- · "quick release lever" to permit one-handed attachment/detachment from helmet or head harness



 Head Mount Assembly: Allows hands-free operation with adjustments to accommodate the user's head size and eye position.

Medium and thick brow pads: Has changeable pads to accommodate head sizes.

• Eye cups: To prevent the emission of stray light or facial reflections.

Sacrificial window: Shields the objective lens from sand and dust

or anything that may scratch the lens. Includes soft and hard carry cases.

Carry cases: Includes soft and hard carry cases.
 Shoulder strap: Attaches to the soft carry case for easy portability.
 Lens cleaning kit: Supplied with lens paper, brush and cleaning fluid

Spectral Response: Visible to .90 microns (IR)

Magnification: X

Resolution: 0.68 (cycles per mrad)
System Gain: minimum 2000 (fl/fl)





#### Weight

Main assembly and lens: Collimation: Image Intensifier: not more than 680 g 1 dg +-1 less than ½ dg divergence double proximity focused, 18mm tube with glass input and straight f.o. output

#### Objective Lens Data

Focal Length x1 mag 27mm
T-Number 1.2
F-Number 1.0

Focussing range 30cm to infinity

**Eyepiece Lens Data** 

Luminance Gain Im/Im

Effective Focal Length
Diopter Adjustment
Interpupilliary adjustment
26mm
-6 to +2
-71mm
55-71mm

#### IMAGE INTENSIFIER

E.B.I

Photocathode Sensitivity Minimum 675 (typ) 700µA/Im

(US eq 1820µA/lm) 35000 - 55000 max 0,15 typ 0.8µx min 64 lp/mm

Signal to Noise Ratio min 21 typ 23
Reliability 10000hrs

Shock Resistance 500g's

### **Logistical Support**

- Calibration equipment to test the image intensifier For gain, resolution and general picture quality
- Calibration equipment for the complete system for Resolution, gain and general picture quality.
- Ref for production and testing MIL-N-49603

#### **ENVIRONMENTAL**

- Low Tem Testing -51° C (7 Hours) - High Temp Testing 71° C (16 Hours)

- Humidity Testing 120hrs @ 95 ± 5% RH & 30° to 65°C
- Vibration Testing 10-200HZ (2.5 G, 12mm Displacement

@ 3 axis for each axis 0,5 hrs
- Waterproof Test: Leak test at 0.25 bar (25000 (kpa) and

immersion o.5 hrs at 1 meter