



# **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

# **WEIGHT**

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

# **STANDARD ACCESSORIES**

Head Mount Assembly: Allows hands free operation with adjustments to accommodate the user's

head size and eye position

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

may scratch the lens

• Carry cases: Includes soft carry case

• **Shoulder strap:** Attaches to the soft carry case for easy portability

• Lens cleaning kit: Supplied with lens cleaning cloth

• Spectral Response: Visible to .90 microns (IR)

• Magnification: X1

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

# PORTABLE PASSIVE DRIVER/INFANTRY GOGGLE SYSTEM NVB 301



#### **OBJECTIVE LENS DATA**

Focal Length x1 mag: 27mm

T Number: 1.2 F Number: 1.0

Focusing Range: 30cm to infinity

# **EYEPIECE LENS DATA**

Effective Focal Length:26mmDiopter Adjustment:6 to +2Interpupilliary Adjustment:55-71mmPhotocathode Sensitivity:550 μA/LmLuminance Gain Im/Im:25000 35000

**E.B.I:** max 0,15 typ 0.8μx

**Resolution**: min 45 lp/mm typ 57lm/mm

 MTF: @ 2.5 lp/mm
 92%

 @ 7.5 lp/mm
 70%

 Signal to Noise Ratio:
 min 18

 Reliability:
 10000hrs

 Shock Resistance:
 500g`s

# **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 0.5 hrs at 1 meter

# **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