

## NV-302 GenIII Specification Night Vision Binocular



### 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

### Standard Accessories

- 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.
- 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)



### Weight

Main assembly and lens: not more than 680 g  
Collimation: 1 dg +-1 less than 1/2 dg divergence  
Image Intensifier: 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**

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

**IMAGE INTENSIFIER**

Photocathode Sensitivity       Minimum 650 typ 700  
    (US eq 1920 $\mu$ A/lm)  
Luminance Gain lm/lm         35000 - 55000  
E.B.I                                max 0,15 typ 0.8 $\mu$ x  
Resolution                        min 57lp tp 64lp  
MTF @ 2.5 lp/mm                92%  
    @ 7.5 lp/mm                 70%  
Signal to Noise Ratio         min 21 typ 23  
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  $\pm$  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

**ALL PRODUCT SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTIFICATION**