

MULTI PURPOSE INFANTRY MONOCULAR NIGHT VISION GOGGLE SYSTEM DB-303



Main Features

- The DB-303 is a Single Tube Night Vision Multi Purpose Monocular System. It is intended for Surveillance, Navigation, SERE (Survival, Evasion, Resistance, Escape) or to be used for Short & Medium Weapon Sight, providing increased versatility while eliminating the need to carry multiple types of specialized equipment

System Features

- Lightweight, Rugged, Humidity Protected
- Left or Right eye positioning
- NBC compatible
- Built-in IR illuminator for map reading
- Weapon mounted Rifle-scope
- IR operation indicator
- Low battery indicator
- Flip-up/flip-down position with automatic shutdown
- Built-in sensor for High Light Automatic Shutdown
- A- focal Clip-on x3 Objective Lens (Optional)
- Red Dot/Reflex Sight/Laser designators compatible
- Binocular Configuration for True Stereoscopic vision

Mission Dedicated

Handheld Goggles- Navigation, Map reading, Observation

Head Mask/Helmet Mount – hands free operation, Navigation, Engagement, NBC compatible

Weapon Mounted - Short range Rifle Scope, Red Dot Reflex Sight/Laser designators compatible

TECHNICAL SPECIFICATION

OBJECTIVE LENS

Focal Length x1 mag	27mm
T-Number	1.2
F-Number	1.0
Focussing range	25cm to infinity
Field of View (FOV)	40°
Exit Pupil	20mm
Eye Relief	20mm

IMAGE INTENSIFIER

Photocathode Sensitivity	650 $\mu\text{A}/\text{lm}$ (typ 700 $\mu\text{A}/\text{lm}$) (US eq 1820 $\mu\text{A}/\text{lm}$)
Luminance Gain lm/lm E.B.I	35000 - 55000 max 0,25lux μ
Resolution	64 lp/mm
MTF @ 2.5 lp/mm	Min 90%
@ 7.5 lp/mm	Min 75%
Reliability	10000hrs

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

- Operating Temperature -40° C to +55° C
- Storage temperature -45° C to +65° C
- Immersion 1 m for 30mins
- Shock/Recoil resistance: 5g`s

ELECTRICAL

- Input voltage 1 .5Vdc
- Battery type 1 x AA
- Voltage polarization Protected
- Electrical Switch On/Off/IR
- Low battery indicator Eyepiece FOV

MECHANICAL

- Weapon mounting Picatinny or other
- Monocular weight 300gr
- Length/width/height 18x48x69mm
- On mask adjustment one hand
- Monocular fix Flip-up/flip-down

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