



ADVANCED DEFENSE
SYSTEMS

G R O U N D S O L U T I O N S

F5050 SERIES (AN/PVS-23) NIGHT VISION BINOCULAR



KEY BENEFITS

- Gen 3 Gated Pinnacle® tubes providing the highest performance and reliability available under all light levels.
- Binocular vision for greater depth perception
- Mounts available for most types of ground helmets
- Integral battery for hand-held or head-mounted use
- Adjustable (spot/flood) IR illumination with wide or narrow beam capability
- Independent eye-span adjustment (IPD)
- Binocular detaches easily from mount
- Rugged construction

Advanced Defense Systems Incorporated provides the military with premier vision-enhancing solutions. As the world's leading producer of Generation (Gen) 3 image intensification devices, we offer the F5050 (AN/PVS-23) binocular night vision goggle for both ground-based and sea-based applications. The F5050 (AN/PVS-23) is a rugged binocular designed to provide increased depth perception for activities such as off-road driving and high-speed navigation at sea. The F5050 (AN/PVS-23) binocular has aviation-standard optics and high resolution Gen 3 F9400 (white phosphor) or F9800 (green phosphor) image intensifier tubes. It can be hand-held, head-mounted or helmet-mounted. When hand-held or head-mounted, it is powered by a single AA battery integral to the binocular. When helmet-mounted, it is powered by a rear-mounted battery pack that contains two pairs of AA batteries for extended operational endurance.

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NIGHT VISION BINOCULAR

STANDARD ACCESSORIES

- Eye cups, lens caps
- Demist shields, sacrificial lenses
- Carrying case
- Operator kit (manual, quick reference card, lens paper)

OPTIONAL ACCESSORIES (FOR EXAMPLE)

- Helmet mount
- Head mount
- Shipping and storage case
- Clip-on power source

SYSTEM SPECIFICATIONS

OPTICAL SPECIFICATIONS	
• Field of View	• 40° nominal
• Magnification	• 1X
PHYSICAL SPECIFICATIONS	
• Weight	• 650 g
• Dimensions	• 3.6 x 5.1 x 4.6 in (9.2 x 12.9 x 11.7 cm)
ELECTRICAL SPECIFICATIONS	
• Battery Life	• 16 hrs with lithium AA battery
• Battery Type	• One 1.5 Vdc AA-size alkaline internal or Two 1.5 Vdc AA-size alkaline external
• Integrated IR Illuminator	• Yes
MECHANICAL SPECIFICATIONS	
• Diopter Adjustment	• +2 to -6 diopters
• Objective Lens EFL	• 27 mm F/1.23, T/1.35
• Exit Pupil/Eye Relief	• On axis: 14 mm @ 25 mm distance / full field: 6 mm @ 25 mm distance
• Focus Range	• 41 cm (16 in) to infinity