

AN/PVS-23 (F5050) Generation 3 Night Vision Binocular PINNACLE®

ITT Night Vision, the world's leading producer of Generation 3 image intensification devices, offers the AN/PVS-23 (F5050) binocular night vision device for both ground-based and sea-based applications. The AN/PVS-23 (F5050) is rugged binocular designed to furnish increased depth perception for activities such as off-road driving and high-speed navigation at sea.

The F5050 has aviation standard optics. Performance is outstanding because each eye receives a unique image giving greater clarity than can be obtained from single-tube devices. The F5050 includes a powerful IR illuminator with wide or narrow beam capability. It can be hand-held, head-mounted. When helmet mounted, the F5050 is powered by a rear-mounted battery pack that contains two pairs of AA batteries for extended operational endurance.



PART #: ITTM-269462-12

Features and Benefits:

- ITT **PINNACLE**® Image Intensifier Tube - Thin-Filmed/Auto-Gated
- High resolution 64 lp/mm (Typ), high gain, and high photoresponse in visible and near infrared
- Binocular vision for greater depth perception
- Mounts available for most types of helmets
- Adjustable (spot/flood) IR Illumination
- Independent eye-span adjustment

Standard Accessories (Included):

- Objective Lens Cover
- Low Profile Battery Pack
- Eye Cups
- Demist Shields
- Carrying Case
- Sacrificial Windows
- Shoulder Strap
- Lens Paper



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EXPORT NOTICE:

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This data sheet is approved for unlimited release. Specifications subject to change without notice.

SPECIFICATIONS: AN/PVS-23 (F5050) BINOCULAR

Intensifier Tube	Generation	3 U.S. (ITT PINNACLE®)
	Resolution	64 lp/mm (Min)
	Film	Thin-Filmed
	Gate	Auto-gated
Optics	Magnification	1x (Unity)
	Brightness Gain	6,000 fL/fL, (Min)
	Collimation	≤ 1.0 ° convergence ≤ 0.3 ° divergence/dipvergence
	Field of View	40°, +1° / -2°
	Objective Lens EFL	27mm F/1.23, T/1.35
	Eyepiece Relief EFL	27mm
	Fore-and-Aft Adjustment	25mm range
	Interpupillary Adjustment	52 to 72 mm – individual knobs
	Diopter Adjustment	+2 to -6 diopters
	Range of Focus	41cm (16 in) to infinity ∞
Exit Pupil / Eye Relief	On axis: 14mm @ 25mm distance	
	Full field: 6mm @ 25mm distance	
Tilt Adjustment	10 °, minimum	
Power	Power Source	One (1) 1.5 Vdc AA size battery
		Two (2) 1.5 Vdc AA external battery pack
Environmental Characteristics	Operating Temperature	-32° C to +52° C
Physical Characteristics	Weight:	
	w/batteries	23 oz (650 grams)
	Flip-Up / Flip-Down	Button release for up and down motion
Warranty	System	One (1) year
Features	IR Illuminator	Yes (narrow & wide beam capability)

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