



AERO DYNAMIX NIGHT VISION

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ITT EXELIS



F4949, AN/AVS-9 Aviator's Night Vision Imaging System (International)

The **F4949** is a rugged, lightweight aviator binocular designated the AN/AVS-9 by the U.S. Government. The F4949 Series is offered with various objective lens filter options and various flight helmet-mount configurations - all designed to meet individual customer requirements.

Features and Benefits

- Generation III tube performance offering high resolution, high gain, photoresponse to near infrared, and exceptional reliability
- Class A, B, C and UK 645 minus-blue filters for objective lens available to suit all types of cockpit lighting, including color displays and fighter HUDs.
- Helmet mount configurations designed for fixed-wing and rotary-wing applications, adapting to most aviator helmets.
- 25mm eye-relief eyepieces easily accommodate eyeglasses.
- Low-profile battery pack improves aviator head mobility and increases battery life
- Other features include flip-up/flip-down capability, simple binocular attachment, individual interpupillary adjustment, tilt, vertical and fore-aft adjustments to fit all aviators.

FSC# 27541

Performance parameters

Magnification	Unity	Resolution	1.3 cy/mr, minimum (1.36 typical)
Field of view	40° nominal	Eyepiece lens	EFL 25mm
Eyepiece adjustment	+2.0 to -6.0 diopters	Eyepiece exit pupil	On axis: 14mm @ 25mm distance Full-field: 6mm @ 25mm distance
Interpupillary adjustment	Independent, 51-72mm total	Collimation	≤1° convergence ≤ 0.3° dipvergence/divergence
Objective lens	EFL 25mm F/1.23, T/1.35		
Objective lens focus	41cm - infinity		
Spectral response	Visible to 0.90 um (IR)		
Brightness gain	5500 fL/fL, minimum		

Mechanical

Weight F4949 binocula	550 grams
Weight fixed wing mount	250 grams
Weight rotary wing mount	330 grams
Vertical adjustment	25mm, range
Fore/Aft adjustment	27mm, range
Tilt adjustment	10° min, range
Automatic break away	11-15 grams
Operating temperature	-32°C to +52°C

Electrical

- Power switch: on/off/on
- Power supply: low profile battery pack
- Rotary-wing mount rear-mounted, low profile battery pack uses 4 ea. AA alkaline batteries, allowing for more than 50 hours of operation
- Fixed-wing mount front-mounted battery pack uses 2 ea. 1/2 AA lithium batteries, allowing for more than 16 hours of operation

Standard accessories

Helmet Mount
Carrying case tailored to system
Operator's manual
Lens paper
Lens caps
Helmet attachment instructions
Low-profile battery pack (rotary-wing versions)
Neck cord (rotary-wing versions)

Optional accessories

Battery pack adapter (fixed-wing versions)
Low-profile battery pack (fixed-wing versions)
Clip-on power source

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