

ZX-NV31C Low-Light Night Vision Goggle



Product Introduction

The ZX-NV31C is a versatile binocular dual-tube low-light night vision device. It features a 3rd-generation autogain brightness-controlled image intensifier tube and a compact structure, making it suitable for various applications. It can be worn on the head or handheld, and each eyepiece can independently flip up to 140° for rapid switching between combat modes under different lighting conditions, ensuring adaptability to any harsh operational environment.

The unique built-in body posture system automatically adjusts settings based on the user's current state. Once the night vision device is flipped up onto the helmet and not in use, it powers off automatically to reduce stray light emission from eyepieces, avoiding target exposure.

The ZX-NV31C automatically adjusts image brightness to adapt to different combat lighting conditions, enhancing nighttime operational capabilities.

Specifications	
Type	Binocular, dual-tube night vision deviceMagnification
Magnification	1×
Image Intensifier Grade	3rd generation
System Resolution	68 lp/mm
Overall Resolution	0.7 mrad (contrast 85%–90%, illumination 1×10^{-1} lx)
	2.0 mrad (contrast 35%–40%, illumination 1×10^{-3} lx)
Observation Distance	Clear starlight conditions: ≥ 500 m for identifying standing soldier
	≥ 1000 m for identifying medium-sized vehicles
Mean Time Between Failures (MTBF)	30,000 hours
Field of View	52°
Continuous Operation Time	80 hours on a full charge
Sensitivity	2150 $\mu\text{A/lm}$
Operating Environment	Total darkness (no light), moonlight, starlight, or dim lighting
Water & Dust Resistance	IP67 or higher
Diopter Adjustment Range	+5D ~ -5D
Weight	580g
Interpupillary Distance (IPD) Adjustment	Continuous, customizable
IPD Adjustment Range	50–80 mm
Bright Light Protection	Equipped with bright light protection
Mounting Method	Soft helmet mount with one FAST base-compatible helmet bracket
Storage Temperature	-55°C ~ +70°C
Operating Temperature	-40°C ~ +60°C
Thermal Fusion Option	Optional thermal fusion accessory for low-light and infrared fused imaging