



CMOS

NIGHT VISION MONOCULAR



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General Features

The advanced digital low-light monocular CMOS Night Vision Monocular adopts 1-inch second-generation high-performance sCMOS solid-state image sensor, featuring super sensitivity and high reliability. It's capable of low-latency, high-speed, clear and continuous imaging under starlight conditions. By well-functioning also in strong light environment, it works day and night, and can output low-light images in real time.

- 18um large pixel size with super-sensitivity
- Clear imaging with 800x600 resolution
- Compact structure, lightweight body
- All-weather use, suitable for various environments
- Real-time video streaming
- ASIC-based control, high frame rate, low latency, low power consumption



OLED Micro-Display



Long-Lasting Battery life



Rain-Proof



No Light Compensation



Video Output



High Dynamic Range



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Device Specifications	
Image sensor dimension	1"
Spectral response range	400nm - 1100nm
Image resolution	800×600
Pixel size	18µm
Minimum Illumination (No light compensation)	0.0001Lx
OLED resolution	800×600
Frame rate	50Hz/100Hz
Optical Specifications	
Objective lens focal length	19.8mm
F/#	F1.2
FOV	> 40° ×30°
Exit pupil	8mm
Exit relief	20mm
Magnification	1×
Min. Objective focus	250mm
Diopter	-5D ~ +3D
The Parameters of the Entire Machine	
Boot time	19.8mm
Battery	One 16340 rechargeable lithium battery Compatible with CR123A disposable lithium battery and 18650 rechargeable lithium battery
Operation time	> 5hours
Size	102×57×66 (mm) Battery 18650 83×57×66 (mm) Battery 16340 /CR123A
Mechanical interface	1/4-20 Inch screw thread (Attachment: Dovetail bracket connecting the whole machine)
Extensible electrical interface	9-core aviation socket
Degree of protection	IP67
Weight	< 285g (Peek, Battery 18650) / < 250g (Peek, Battery 16340 /CR123A)
Environmental adaptability	Operating Temperature -20° 55° (Expandable to -40° 60°)
	Storage Temperature -25° 55° (Expandable to -45° 70°)
DRI for Human	935m (Detection) 468m (Recognition) 234m (Identification)
DRI for Human	1265m (Detection) 663m (Recognition) 316m (Identification)