HMNV-G800

Head-mounted night vision goggles

OLED — OLED Micro-Display

Binocular Stereoscopic Vision

Long-Lasting Battery Life

100Hz — High Refresh Rate

HDR — High Dynamic Range

No Light Compensation

Wireless Transmission

Image Storage

Orienteering Compass

Day and Night Compatible

Product Introduction

The Head-mounted night vision goggles adopts 1-inch second-generation high-performance BSI CMOS 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.

Product Features

☑ 18µm large pixel, ultra-high sensitivity
☑ Automatic power off when side flipped
☑ Real-time image storage and transmission to the rear
☑ Receive and display external image sources
☑ ASIC controller, ultra-low power consumption, extended working time
☑ Alternative to PVS-31*

   *AN/PVS-31 Binocular Night Vision Device (BNVD)

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Applications

- ☑ Outdoor night vision
- ☑ Police enforcement
- ☑ Safety rescue
- ☑ Forest monitoring
- ☑ Camping adventure

Main Technical Parameters	
Device parameters	
	Low light
Image sensor dimension	1 inch
Spectral response range	400nm ~ 1100nm
Image resolution	800×600
Pixel size	18μm
Minimum illumination (No light compensation)	0.00005 Lx
OLED resolution	800×600
Frame rate	50Hz/100Hz [1]
Optical parameters	
Objective lens focal length	19.8mm
F/#	F1.05
FOV	50° (˃ 40° ×30°)
Exit pupil	8mm
Exit relief	23mm
Magnification	1$^{\times}$
Min. Objective focus	250mm
Diopter	-4D ~ +4D
The parameters of the entire machine	
Boot time	˂ 4s
Battery	Four 18650 rechargeable lithium batteries
Max. Operation time	˃ 38hours
Size	107×106×89 (mm)
Mechanical interface	Standard wilcox interface
Extensible electrical interface (Battery compartment)	Type-C
Degree of protection	IP67
Weight (Goggle only)	˂ 590g (Aluminium alloy)
System weight (Including battery and holder)	˂ 1120g (Aluminium alloy、composite resin)
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 Vehicle	1265m (Detection) /633m (Recognition) /316m (Identification)

Note:
【1】Customizable at 60Hz/120Hz;