SVG5 Series Al Night Vision Monocular

50W black light black-white imaging Monocular(SVG5/5P)

product overview

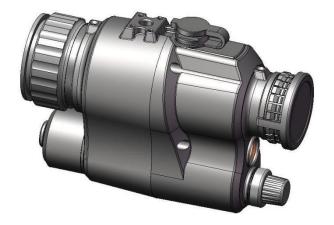
The SVG5 Series night vision monocular adopts a 1 inch large-target-surface super-sensitive CMOS sensor, processed by an AI ISP (Image Signal Processor) image engine. The AI algorithm enhances imaging performance in low-light to no-light environments; without supplementary lighting such as infrared or laser sources, it can achieve imaging under an illumination of 1×10^{-4} lux (even at night). Additionally, its imaging range is not limited by the distance of illuminators, giving it a unique advantage in large-scale night scenarios.

This monocular is powered by a lithium battery and can also be supplied with power via an auxiliary DC 5V battery pack or external power source. It features low power consumption and a compact structure. It can be used handheld, head-mounted, or mounted on other devices, and is suitable for professional scenarios.

product feature

- Can image clearly in 0.00005/0.0001Lux (no moon and no stars in the wild), see people, animals, objects, etc.
- Black and white imaging / color imaging two complete sets
- With 18650 battery, replaceable battery, or external battery pack
- Support little light night vision video, photo, for evidence collection, investigation, recording, etc;
- Equipped with AI ISP image engine architecture, it achieves no smear, low noise and clearer night vision effect.
- Night imaging does not need supplementary light, concealed operation, not easy to be anti-reconnaissance.
- Single button operation, support multiple settings brightness, contrast, frame rate, etc.





technical parameters

parameter	parameter items	parameter specification	
master chip	performance	Dual-core ARM Cortex A55 with built-in NPU processing engine	
	Model No.	SVG5	SVG5P
	Imaging	50W Black-White	
	Sensor Size	1 Inch Progressive Scan CMOS	
	Pixel Size	18 µm	
CIS sensor	Sensor Resolution	800 * 600	
CI3 SELISOI	Spectral sensitivity	800nm ~1000nm	
	Frame Rate	50/100 HZ	
	Min Illumination(no extra	0.0001 Lux	0.00005 Lux
	Screen	Micro OLED	
Diaglass	Size	0.5 Inch	
Display	Resolution	1600 * 1200	
	Screen brightness adjustment	1-8 level	
	objective lens focal length	24.5mm	
	F/#	F1.15	
	Field of Vlew(FOV)	43°	
	Exit pupil diameter	6mm	
Optics	pupil distance	35mm	
	Visual magnification	1X	
	Minimum focusing distance	300mm	
	Eyepiece diopter	-6D ~ +4d	
image	Photo pixel	800*600 pixels	
	image stabilization	electronic image stabilization	
video	Video resolution	800*600@50~100fps	
business	key distribution	Key or rotary encoder: switch/inframenu/return/shooting mode, conf	ared light control, firmation, screen brightness-, contrast

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	language	Simplified Chinese, English Support built-in storage interface (up to 256G), support data line file transmission	
storage	Memory card interface		
	power supply	1 * 18650 lithium battery, aerial 5pin plug for external power	
	charging protection	Support overshoot, reverse connection, and short circuit protection	
general specifications optional functions	size	115mm*46mm *80mm	
	weight	260g (NO Battery)	
	power dissipation	MAX ≤2.5w	
	Environmental adaptability	-25 $^{\circ}$ C $^{\circ}$ C , humidity less than 95%(no condensation)	
	Waterproof	IP 67, metal housing	
	WiFi	Support optional WiFi video transmission	
	Peripheral Interface	Support optional tipper bracket, custom bracket	
	illuminator interface	Support optional infrared fill light function	

product application

p	roduct application
•	Head-mounted night vision goggles : used for reconnaissance, combat, sentry, anti-terrorism, driving with lights off (military vehicles)
•	Sight (gun sight): used for training, aiming, outdoor hunting, shooting range actual combat, etc.
•	Handheld night vision device: used for patrol, public security law evidence collection, equipment detection, outdoor search, etc.

effect display

A certain brand "S..."

SVG5 Series products



0.0001Lux imaging effect comparison (no stars and moon environment)

SVG20F

Apple iPhone 16





size data

