SVG20 Series Al Night Vision Monocular

- 200W black light black-white imaging Monocular(SVG20)
- 200W black light full-color imaging Monocular(SVG20F)

product overview

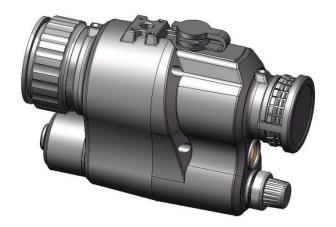
The SVG20 Series night vision monocular adopts a 1.2-inch large-target-surface super-sensitive CMOS sensor, processed by an AI ISP (Image Signal Processor) image engine. The AI algorithm enhances imaging performance in low-light to no-light environments; without supplementary lighting such as infrared 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 in0.0004 Lux (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.	SVG20	SVG20F
	Imaging	200W Black-White	200W Full Color
	Sensor Size	1.2 Inch Progressive Scan CMOS	1.2 Inch Progressive Scan CMOS
CIS sensor	Pixel Size	10 µm	
	Sensor Resolution	1920*1080	
	Spectral sensitivity	800nm ~1000nm	400nm ~ 1100nm
	Frame Rate	50/100 HZ	
	Min Illumination(no extra	0.0001 Lux	0.0004 Lux
	Screen	Micro OLED	
	Size	0.5 Inch	
Display	Resolution	1600 * 1200	
	Screen brightness adjustment	1-8 level	
Optics	objective lens focal length	24.5mm	
	F/#	F1.15	
	Field of Vlew(FOV)	43°	
	Exit pupil diameter	6mm	
	pupil distance	35mm	
	Visual magnification	1X	
	Minimum focusing distance	300mm	
	Eyepiece diopter	-6D ~ +4d	
image	Photo pixel	1920*1080 pixels	
	image stabilization	electronic image stabilization	
video	Video resolution	1080P@50~100fps	
business	key distribution	Key or rotary encoder: switch/infrared light control, menu/return/shooting mode, confirmation, screen brightness-, contrast	

	lan anna	S. 15 LO. 5 L.	
	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	
general specifications optional functions	charging protection	Support overshoot, reverse connection, and short circuit protection	
	size	115mm*46mm *80mm	
	weight	260g (NO Battery)	
	power dissipation	MAX ≤2.5w	
	Environmental adaptability	-25°C~60°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

