SVE40 Digital Low Light Full-Color Night Vision Binocular

product overview

SVE40 full-color night vision device adopts large-target ultra-sensitive image sensor. ThroughAI ISP imaging engine, it can realize full-color imaging under $1*10^{-3}$ Luxillumination environment at night without infrared, laser and other illuminators. It can truly present color pictures without smear and low noise, and the imaging range is not limited by the distance of the illuminator. The imaging field is wide, and it has unique advantages in observing targets in the wild environment at night.

All-weather, all-time imaging with 940 nm fill light in extremely dark (moonless, starless) environments

product feature

- AI algorithm support, in the image enhancement, brightness, clarity far ahead;
- Adopt "1/1.8 inch" large-target ultra-sensitive image sensor to realize 4 million pixels 2K ultra-high definition imaging;
- 720P HD screen, support 10x digital zoom, clear observation details;
- Full-color night vision imaging, night as day, remote imaging, recording reality;
- Equipped with AI ISP image engine architecture, achieve no smear, low noise, clearer full-color night vision effect;
- Low power consumption, strong endurance, continuous working time>8 hours;
- Support white flash, constant light and other daily lighting requirements, support IR multi-gear fill light switching
- Support video, photo, and support various formats and resolution options
- Optional wireless WIFI transmission function, you can easily control the device and browse video images through APP
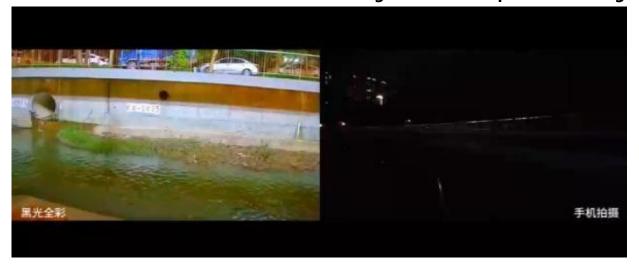
technical parameters

lens parameters		
focal length	25 mm@F0.8	15 mm@F0.85
field angle	15.6°(H)×13.2°(V)	25.2(H)°×18°(V)
focusing methods	manual focusing	
Day/night mode	Built-in infrared filter	
performance parameter		
chip capability	Dual-core ARM Cortex A55@850MHz (3 DMIPS/MHz) 32KB I-Cache with built-in NPU processing engine	
image sensor	1/1.8 "Super Starlight CMOS	
minimum illumination	Color $1*10^{-3}$lux (0.001 Lux)@F0.8, AGC ON	
screen quality	3.5 inch HD 1280*720resolution	
Video resolution	2K 2688*1520@25fps, 2K 2688*1520@12fps~25fps	
photo resolution	8MP（4K）, 12MP（8K）	
electronic amplification	8XDigital Zoom	
video compression	H.264	
white balance	voluntarily	
gain control	voluntarily	
Wide Dynamic	120dB	
exposure mode	support automatic	
AI ISPImage Engine	AI night vision image enhancement, AI super sensitive noise reduction, AI Super HDR	
general parameters		
language	Simplified Chinese, Traditional Chinese, Português, English, Japanese, Français, Deutsch, italiano, España,pyccknn, عربي	
Charging mode Power consumption	Type-C 5V/3A，≤2.5W	
charging protection	Support overshoot, short circuit protection, battery reverse connection protection	
duration of flight	Battery life 6.5H, 2*2100mAh (ICR 18500battery), support battery replacement	
WiFi	Support optional WiFi function	
Positioning/electronic compass	Reserved positioning/electronic compass data interface	
SD card interface	Support Micro SD card storage (up to 256G), support USB data cable transmission	
shell material	plastic	
level of protection	Waterproof rating: IP65	
operating temperature and humidity	-20℃~60℃, humidity less than 95%(no condensation)	
Equipment size	170mm(L)*130mm(W)*59mm(H)	
weight	≤ 607g	
bracket fixing aperture	Universal 1/4 inch hole position	

SVE40　　　　　　　**high-end mobile phone shooting**

0.001 Lux Image Comparison (Moonlight)