



# SFP-BNVG

## Sincerity, craftsman, and integrity

Skilled in the heart, craftsman, and in the line

# Introduction



## SFP-BNVG

SFP - BNVG is a substitute for PVS31A. Although PVS-31A has been used by US military forces for special operations and allied forces for many years, it has not been widely used in other markets.

With the production of SFP BNVG, various restrictions have been broken. Currently SFP-BNVG is the lightest in the PVS31 binocular night vision system, and SFP BNVG has unparalleled optical performance. The improved lightweight optical lens assembly has achieved the best match with the white phosphorus image intensifier.

This product can be used as a replacement for the US PVS31A. Not only its performance can be completely comparable to it, but it has also made breakthrough in terms of overall price, weight, endurance, anti drop and waterproof, battery compatibility, and convenience in expanding functions.

# Product Patent of SFP-BNVG





# Product advantages



## Overall architectural advantages

The SFP BNVG entire unit is independently developed, using new materials and reasonable architecture. BNVG is currently the lightest binocular night vision device in the PVS-31 category, **with a total weight of  $435 \pm 1\text{g}$** . **Through waterproof testing, it is found that after operating for two hours at a depth of 20 meters underwater, there is no water seepage in the body, and the overall operation is still normal.**

## Optical advantages

The optics of SFP BNVG use high-precision multi piece aspherical lenses, independently developed and produced by our company, with controllable quality and production capacity.

**The resolution of the eyepiece objective lens group is greater than  $85\text{LP/mm}$ , the visual field is  $40 \pm 2$ , and there is no distortion in the three zones. The built-in IrFilter can replace the night vision device used in vehicles, and its optical performance is comparable to that of the US military's active night vision products. Compared with similar domestic products, it has more outstanding optical performance.**

## Architecture



## Optics



# Product advantages



## Advantages of built-in chips

The SFP-BNVG is equipped with our company's newly developed chip and attitude sensing sensor, which has lower energy consumption. It is paired with our company's independently developed IR recognition battery box. **The working time of a single AA battery is more than 15 hours, and the working time of four batteries is more than 50 hours. The circuit design is more reasonable, without choosing a battery brand, and it has stronger wartime adaptability.**

Relying on the built-in sensor, it can realize **up-turn power off, down-turn power on, and side-turn monocular use to meet more tactical requirements.** The whole machine has passed the extremely low temperature test, and the whole machine **works normally at minus 40°C.**

The SFP-BNVG machine has reserved manual gain to meet the needs of users.

**Notice:**Due to rare earth control reasons, the product you receive may not have the side turn flip off function.

## External accessories

Our company's night vision products have precise installation and fixed interface manufacturing, with excellent tolerance control, and are compatible with standard Dovetail head tipping brackets of any brand worldwide. The external battery box integrates a high brightness infrared signal light to achieve enemy or allies identification and meet the tactical requirements of air ground cooperative operations.

## Chips



## Accessory Parts



# Product Parameter

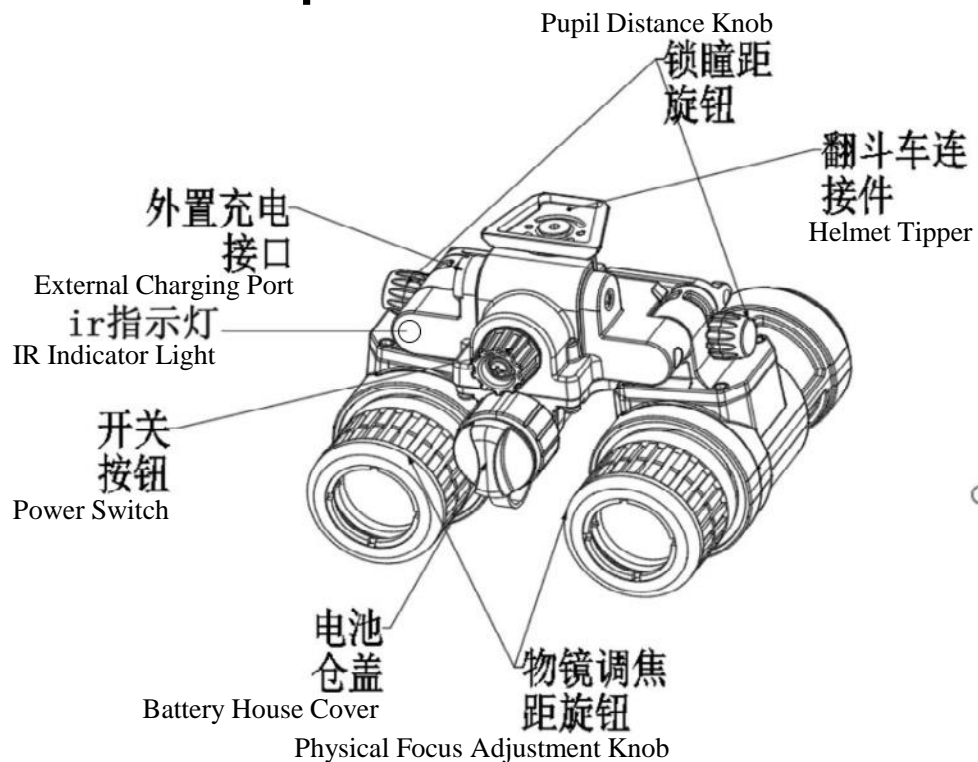


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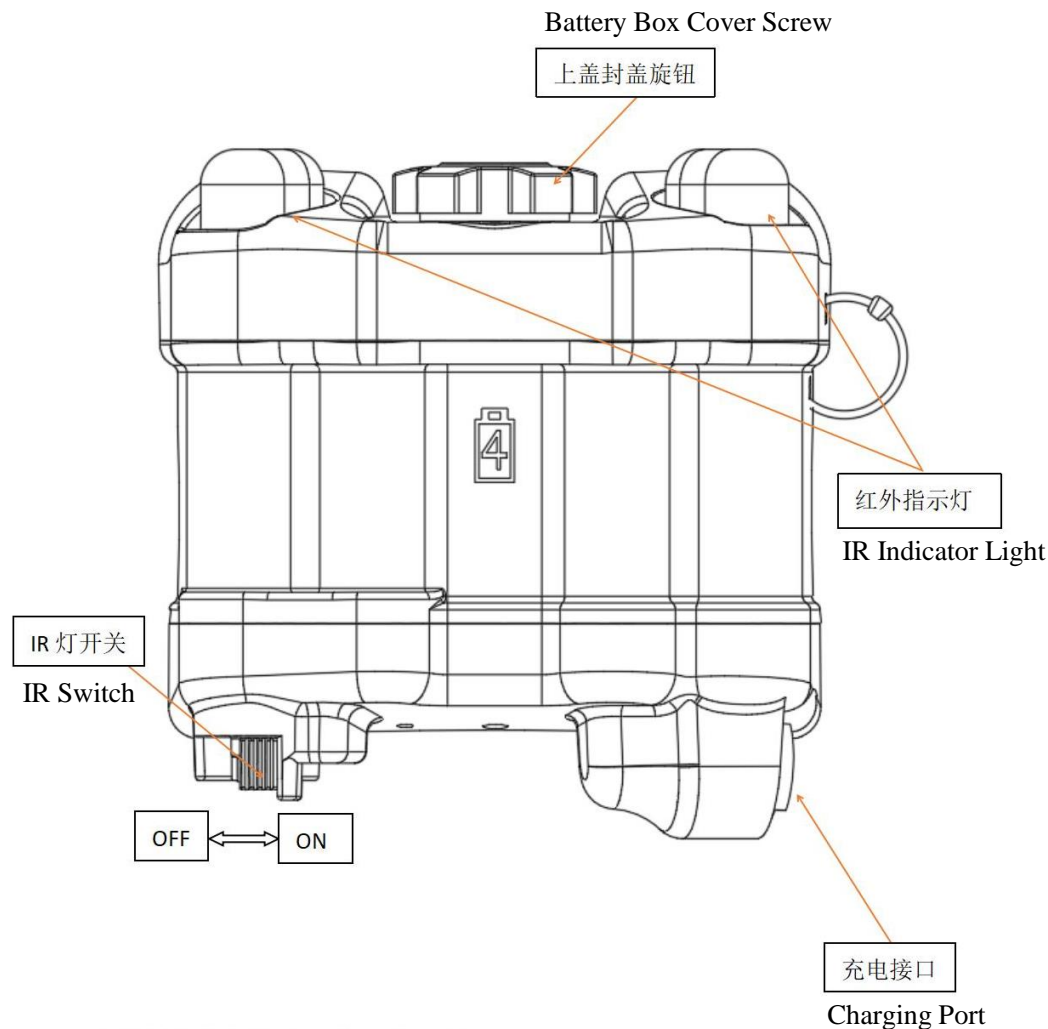
Item	Description		
	US L-3PVS-31A	SFP-BNVG	
Housing Weight	450g	435±1g	Compared to the American product, our entire unit is much lighter in bodyweight
Battery Type	AA lithium battery (shutdown if less than 1.3V)	AA lithium battery (shutdown if less than 1.15V)	Our independently developed chip greatly reduces the demand for batteries and has more stable performance
Sustainable Battery Life for +25 °C	>16 hours (dedicated battery for US military purpose)	>16 hours (with common market sells alkaline batteries)	
-20°C	>8 hours (dedicated battery for US military purpose)	>10 hours (with common market sells alkaline batteries)	
Battery Pack Power Life	24-50 hrs.	20-50 hrs.	
FOV	40±2°	40±2°	
Resolution Of Eyepiece and Lens	>72LP/mm	>85LP/mm	When using high-performance image enhancers, there will be no loss of performance
Beyond Pupil Distance	17mm	25mm	Compatible with glasses-wearing and anti-virus mask
Diameter Beyond Pupil	12mm	12mm	
Objective Lens and Eyepiece	5 pieces and 6 pieces	5 pieces and 4 pieces	Using multiple aspherical surfaces
Objective Lens Transmittance	Center 87%	Center 90%	Higher light transmittance and Upgraded screen details
Objective Filter Band	400-900nm	576-1100nm	Improve resolution with the built-in IrFilter replacing the night vision device used in vehicles (with the same function as AVS9 )
Image Intensifier	Customized MX-11769	MX-10160	
Flip Up Shut-Down	Y	Y	
Rollover Shut-Down	N	Y	Combined with built-in position sensors, it can achieve the function of Rollover shut-down, and meet more tactical action needs.
Image Intensifier	L3 Third-Generation Filmless tube	Norinco Night Vision Super Second Generation tube	



# Product Specification

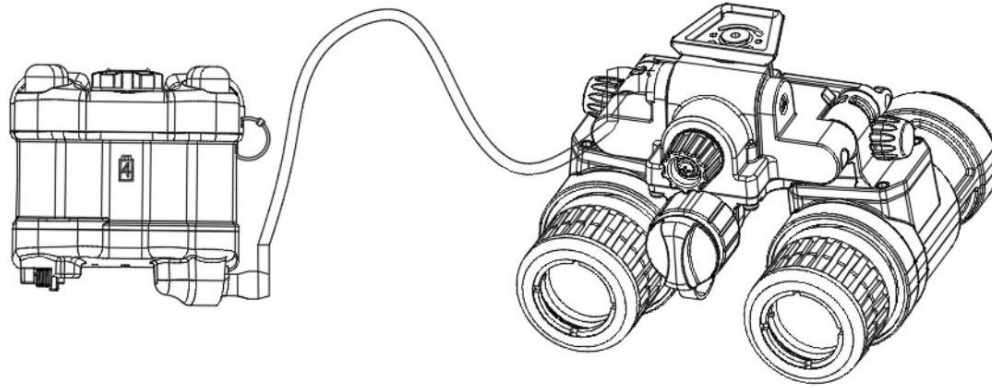


1. 翻斗车上翻可关机  
Flip up the tipper can turn off the machine;
2. 物镜调焦旋钮可调节清晰度  
Adjust the object lens knob to get clear image;
3. 可通过锁瞳距旋钮锁定瞳距  
Adjust the pupil distance lock to fix the pupil distance;
4. 打开电池仓盖可快速更换电池  
Open the battery house to change the battery;
5. 外置充电接口可直接给主机供电  
The charging port can connect to external power directly;
6. 翻斗车连接件是直接和头盔翻斗车连接  
The tipper is locked on the helmet directly;



1. 上盖封盖旋钮快速更换电池和封口  
Turn the cover screw to open the batter box to change the battery;
2. 红外指示灯开关可启动红外灯  
Turn the IR switch to right (on the front face view) to turn on the IR lamp;
3. 充电接口插入连接线可给其他设备充电  
Charging port can connect to other machine for power supply directly;

# Product Specification



1. 电源线可直连电池盒与主机供电

The cable can connect main machine and battery box directly to provide the power;

2. 电池盒需安装 4 节 5 号干电池

The battery box needs fill in 4pcs battery #5;

