SVT PVS14P+ High Performance Night Vision Monocular

I. Multi-mode wearing system

The SVT PVS14P+ night vision goggles feature a flexible multi-mode wearing system to meet the needs of different scenarios. It supports handheld use, helmet mounting and multiple wearing modes for use with weapon systems. This design allows users to freely choose the most suitable mode of use according to specific mission requirements, whether it is individual reconnaissance, tactical operations or security monitoring.

At the same time, it can also be installed on the weapon rail through the adapter fitting, and used in conjunction with other sights to provide support for accurate shooting. In addition, it has a stand-alone handheld use mode for temporary observation or non-fixed point surveillance tasks.

The SVT PVS14P+ has a flip-up-off feature that allows it to be easily flipped aside when not in use without completely removing the device, increasing tactical flexibility and reflecting the ultimate pursuit of ease of use.

Second, precision optical adjustment mechanism

The SVT PVS14P+ offers comprehensive control functions in terms of optical adjustment to meet the needs of different users and various environmental conditions.

This product is equipped with a complete diopter adjustment system, allowing users to make personalized adjustments according to their vision status. It provides a diopter adjustable range of +2D to-6D, which can meet the vision needs of most users and ensure that users with different vision conditions can obtain clear images.

In addition, the product is equipped with manual gain control function, allowing users to manually adjust the gain level according to ambient light conditions to obtain the best image effect. This feature is especially important in complex and varied lighting environments, helping users quickly adapt to different lighting conditions.

III. Multifunctional auxiliary system

SVT PVS14P+ integrates a variety of practical auxiliary functions, improving the environmental adaptability and ease of use of the product.

First of all, it has built-in IR illuminator, which can provide auxiliary illumination when the ambient light is extremely weak or completely dark. The infrared illumination distance can reach more than 250 meters, ensuring effective observation in completely dark environment.

In terms of power management, the product uses two AA batteries to power the design, ensuring the portability and long-term battery life of the device, about 40 hours or more. This long-life capability allows users to change batteries frequently, especially for long-term missions.

In addition, the product has a low battery indicator function, which will remind the user to replace the battery when the battery is low, so as to avoid accidental power failure and affect the task execution. At the same time, it is also specially designed with any polarity battery protection function, which will not damage the equipment even if the battery is installed in the wrong direction, thus improving the safety of use.

IV. All-environment light adaptability

The SVT PVS14P+ has excellent ambient light adaptability, providing sharp images in a variety of lighting conditions.

This product uses advanced high-performance image enhancement technology to effectively amplify weak light in the environment. The high-performance GEN 2+ image intensifier significantly enhances visible light detection and provides clear images in extremely low light conditions such as starlight or moonlight.

In terms of glare protection, the product is equipped with an automatic anti-glare protection system, which automatically adjusts the gain when exposed to sudden glare to prevent damage to the user's eyes and protect the image intensifier tube from damage. This function is especially important in environments where light changes frequently.

At the same time, this product also has a wide operating temperature range, which can work normally under extreme environmental conditions. Its operating temperature range is-51 ℃ to 49℃, maintaining stable performance. This broad temperature adaptability allows the product to be used in a variety of harsh environments, including extreme environments such as polar regions and deserts.

V.Comparison of characteristics summary and a competitor PVS14

common characteristics	incorporate	A brand PVS-14 parameters	SVT PVS14P+ Parameters
wearing styles	Multi-mode wearing system supports handheld, helmet-mounted and weapon system use	Support PASGT, MICH and other helmets	Multi-mode wear design similar to PVS-14
resolution ratio	The higher the value, the stronger the resolution and the	64-68 lp/mm	68-72 lp/mm

	finer the imaging.		
SNR (Signal to Noise Ratio)	The higher the value, the less noise, the cleaner the picture	23-25	27-30
diopter adjustment	Wide range of diopter adjustment to suit different vision needs	+2 to-5	+2 to-6
focusing system	Wide focus capability from close range to infinity	0. 25meters to infinity	About 0. 25meters to infinity
gain control	Manual gain control to adapt to different light conditions	Support manual gain adjustment	Support manual gain adjustment
infrared auxiliary	Built-in infrared illuminator for observation in complete darkness	Built-in infrared illuminator	Infrared illumination distance>250 m
electrical power generating system	Single AA battery power supply, long endurance	40-50 hours	more than 40 hours
environmental adaptation	Wide operating temperature range to adapt to extreme environments	-51℃~ 49℃	-51°∽ +49°C
protection design	Waterproof and dustproof design to adapt to harsh environments	IP67 protection class	IP/67 protection class

> Through comparison, it can be seen that SVT PVS14P+ and competitor PVS-14 have relatively large technical advantages in core parameters and functional effects, highlighting the high cost performance of SVT PVS14P+.