GPNVG18C
Ground Panoramic Night Vision Goggle

Characteristics：

The new four-eye night vision device is the ideal night combat equipment for the military and law enforcement departments of various countries

CoBTec innovatively developed the panoramic night vision device PS18G4 with panoramic night vision observation capability, which aims to provide users with a wider field of vision in the night vision environment. The most notable feature of PS18G4 is that there are four independent image intensifier tubes, and four independent objective lenses are arranged in a panoramic direction. The two lenses in the middle point forward like traditional binocular night vision, giving users the perception of normal vision. While the other two lenses point slightly outward from the center for increased side field of view. The two tubes on the right and the two tubes on the left perform image stitching and fusion at the eyepiece. The user sees the two central images overlapping the two outer images, resulting in an unprecedented 120° field of view. This is an absolute game changer for night vision gear. Two imaging systems on the left and right are installed side by side on the support frame, and suspended on a hanger similar to the ANVIS night vision helmet. In addition, the night vision device can be easily detached from the stand as a stand-alone handheld night vision observation device.

The night vision device has a complete observation effect adjustment system. There are handwheel systems at both ends of the assembly of the support frame to adjust the eye spacing of the left and right vision systems. Each objective lens has a separate object focus adjustment handwheel to ensure that the objective lens image is in good focus. In the four-eye panoramic night vision system, since the left and right eyepieces are respectively spliced by two-way imaging systems, the movement of the lens when the eyepiece diopter is adjusted will cause the eyepieces to interfere with each other, so the traditional four-eye system does not have

a diopter adjustment system (the American four-eye Panoramic night vision does not solve this problem), but can only be dealt with by changing the vision film, which not only needs to be equipped with a large number of vision film accessories, but also brings great inconvenience to operation and use. CoBTec's innovative design perfectly solves the problem of adjusting the eyepiece diopter of the four-eye panoramic night vision system. It is very convenient to realize the continuous adjustment of the diopter on the host, which greatly reduces the complexity of system configuration and brings great benefits to the operation. An extremely convenient user experience.

Parameter:

FOV	120x50 +/-2 °
IIT	Gen2+/Gen3
Structure	Head-worn and flipped
Power supply	CR123x1 Lithium battery/CR123x4 battery case
Voltage	2.5-4.2V
Installation	USA standard helmet interface
Control method	ON/IR/AUTO
Power consumption	<0.2W
Battery capacity	800-3200maH
Battery life	30-80H
Optical magnification	1X
Optical axis parallelism	<0.1°
Brightness gain	Auto
Optical aperture	F1.18 22.5mm
MTF	120LP/mm
Optical distortion	3% Max
Relative illuminance	>75%
Optical coating	Ultra-broadband multilayer optical anti-reflection coating
Focus range	250mm-∞
Focusing method	manual
Exit pupil distance	25
Exit pupil diameter	8mm
Vision range	-1（+0.5~-2.5）
Mesh spacing adjustment method	Continuous adjustable
Eye distance adjustment range	50-85mm
Eye pitch locking method	Manual lock
Auxiliary light source	850nm 20mW
Working temperature	-40--+55℃
Working humidity	5%-95%

Protection	IP67
Dimension	155x136x83
Weight	800g