

微光夜视仪



WGS45-4



主要性能指标

- a、放大率：1×
 - b、视场：40°
 - c、分辨力：
 - 照度 1×10^{-1} lx，对比度85% 1.0mrad
 - 照度 1×10^{-3} lx，对比度35% 2.36mrad
 - d、视度调节范围：-6SD ~ +2SD
 - e、出瞳直径： ϕ 14mm
 - f、眼点距离：25mm
 - g、线性畸变：3/4视场处不大于4%
 - h、电池型号：3A锂电池
- 环境温度
贮存温度：-55℃~+70℃
工作温度：-45℃~+50℃

产品适用范围

微光夜视仪广泛应用于军事、刑侦、辑毒、辑私、夜晚监控、保卫等领域。

主要功能

XX型号微光夜视仪具有物镜调焦、视度调节、辅助照明等功能。

主要性能指标

物镜组

物镜可沿光轴前后移动，使不同距离处的景物都能成像在像增强器的阴极面上，俗称调焦，调焦范围250 mm ~ ∞ 。

中部组

物镜组、目镜组、连接机构通过中部组连接成一体，微光夜视仪的核心元件——NVT-7像增强器装在中部组内。

目镜组

目镜组把像增强器荧光屏上的图像放大后供人眼观察，其视度可调节，调节范围为-6SD ~ +2SD。

物镜组

物镜盖的端面中央有一个小孔，在白天检查微光夜视仪时，可减小进入物镜内的光线强度，起到保护像增强器的作用。不使用微光夜视仪时，应罩上物镜盖。

眼罩

眼罩是可起控制眼点位置的作用，同时还可防止使用中对操作者眼部的冲击振动及防止目镜光线外泄而暴露目标。

开关

开关有3个挡位，设置在中部组上，初始位置为关闭状态，顺时针转动开关到中间挡位，夜视眼镜开始工作，继续顺时针旋鈕开关到下一个挡位，可打开辅助照明功能。

辅助光源

为了满足在极低照度（ $<10^{-5}$ lx）下工作的需求，本产品配有红外辅助光源。当照度低于 $<10^{-5}$ lx以下时，继续将电源开关顺时针旋转一个档位，即可开启辅助光源，提高成像质量。



WGS45-4 night vision device is widely used in military, criminal investigation, Drug Enforcement, smuggling, night monitoring, land defense and other fields.

The Main Function

WGS45-4 night vision device has the functions of eyepiece focusing, visibility adjustment, auxiliary lighting and so on.

Main Performance Indicators

The objective lens group

Variable Focus

Focusing range : 250mm

The central group

Objective group, eyepiece group and connecting mechanism are connected into a whole through the middle group, and the NVT-7 image intensifier, the core element of night vision instrument, is installed in the middle group.

The eyepiece group

The image on the phosphor screen of the eyepiece is enlarged by image intensifier for human eyes to

observe, and its visibility can be adjusted from -6SD to 2SD.

The objective lens group

There is a small hole in the center of the objective lens cover, which can reduce the intensity of light entering the objective lens and protect the image intensifier during daytime inspection. Objective lens cover should be closed when night vision device is not in use.

The eye mask

The eye mask can control the position of the eye, at the same time, it can also prevent the impact on the operator's eyes during use and prevent the exposure of the target due to the leakage of eyepiece light.

The switch

The switch has three gears, the initial position is closed, turn the switch in a clockwise way to the middle gear, night vision device start to work, continue to turn the clockwise knob to the next gear, can open the auxiliary lighting function.

Auxiliary lighting source

In order to meet the requirements of working under very low level illumination ($<10^{-5}$ lx), the product is equipped with infrared auxiliary light source.

When the illumination is lower than $<10^{-5}$ lx, continue to turn power switch in a clockwise way by one gear to open the auxiliary light source and can improve the imaging quality.

Main Performance Indicators

Image magnification : 1x

Field of view 40°

Resolution:



Illumination : 1×10^{-1} lx contrast 85% 1.0mrad
Illumination : 1×10^{-3} lx contrast 35% 2.36mrad
Diopter range : -6SD to 2SD

Exit pupil diameter : \varnothing 14mm

Distance of eye point: 25mm

Linear distortion: less than 4% at 3/4 field of view

Battery : 3A Lithium Battery

Environmental temperature

Working temperature : -45°C~+50°C

Storage temperature : -55°C~+70°C

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