



1XZ18/18WS-7 选通像增强器

产品概述

1XZ18/18WS-7 选通像增强器作为核心器件配装于轻型微光夜视装备,其作用是利用超二代像增强技术将微弱的光学图像亮度增强到适合人眼观察的程度,获得低照度下目标高质量、清晰的可见光图像,它能在极低照度下: 10^{-3} ~ 10^{-6} lx 完全“被动”的工作。

技术特点

超一代像增强器技术,高增益、高信噪比、体积小、重量轻、低功耗、选通工作、增益可调。

参数

灵敏度 2856K >500u: VIm

800nm N43mA/W

850nm >33 m.-VW

亮度增益

手动最大: 6000cd/m²/lx~ 10000cd/m²/lx

手动最小: 600cd/m²/lx~2000cd/m²/lx

分辨力中心 N50lp/mm

等效背景照度 W2xi (nx)

有效输入口径 > 17.5mm

中心放大率: 1

信噪比 (108pJx) >20

输入电压: 8Vdc, 0-5 Vdc (可调选通电压)

门开启时间: 20-cons

门上升/下降时间: W50ns

输入电流 W30mA

质量: W98g

输入窗: 光纤面板

输出窗: 光纤面板

尺寸: <1>43<< 24.5mm, 40 x 25 x 13mm (电源尺寸)

应用领域

主要用于夜间巡航、距离选通系统中,也可用于公安、环境保护、航海导航等。

1XZ18/18WS-7 Gated Image Intensifier

Product overview

The 1XZ18/18WS-7 gated image intensifier is used as the core device to be assembled in light low-light night vision equipment. Its function is to use the super second-generation image intensifying technology to enhance the brightness of the weak optical image to a level that applicable for human eye observation, and obtain high-quality and clear visible light images of the target under low illumination, it can work completely "passively" under extremely low illumination (10^{-6} - 10^{-1} lx).

Technical Features

The super second-generation image intensifier technology has the characteristics of high gain, high signal-to-noise ratio, compact size, light weight, low power consumption, gating work, and adjustable gain.

Parameter

Sensitivity 2856K N500uA/lm

800nm >43m. -VW

850nm >33 m. -VW

Luminance gain

Manual maximum 6000cd/m²/lx- 10000cd/m²/lx

Manual minimum 600cd/m²/lx- 2000cd/m²/lx

Center of resolution N501p/mm: Φ 14mm Edge N501p/mm

Equivalent background illumination $W2 \times 10^4$ lx

Effective output diameter > 17.5mm

Central magnification: 1

SNR (108 alx)N20

Input voltage 8Vdc, 0-5 Vdc(Gating voltage is adjustable.)

Gate opening time 20-8ns

Gate rise/fall time W50ns

Input current W 30mA

weight: W98g

Input window : Optical fiber panel

Output window : Optical fiber panel

Dimensions $\Phi 43 \times 24.5\text{mm}$, 40^o25^o 13mm(Power size)

Application fields

It is mainly used in night cruise and distance gating systems, and can also be used for public security, environmental protection, sailing navigation, etc.