



## GTX864

### 型 1 GT7864

#### 产品概况

GT7864 像增强器是增强夜视技术的最新技术。GT7864 像增强器是专门为解决严格的问题而设计的，可装配至空军飞行员、路军航空兵、海军伞降兵等特种部队。国内，GT7864 像增强器才能提供超高速的自动选通，最小的光晕和电磁兼容要求，光谱范围从紫外线到近红外，在最黑暗的夜晚，在复杂的电磁环境，在所有的地形上获得最佳的使用效果。

#### 技术特点

超构表面玻璃输入窗，球面、高分辨力、高对比度倒像输出窗，高探测率微通道板电子倍增器，高精密装配技术，触片式电器接口，自动门控电源技术，电磁兼容技术，外部亮度调节技术。

**应用领域：**头盔、枪瞄

#### 参数：

- 品质因数 1900
- 灵敏度 (2856K)  $1000 \mu\text{A}/\text{lm}$
- 信噪比 28
- 分辨力 64lp/mm
- 强光分辨力 (200lx) 54lp/mm
- 工作电压 2.2-3.4V
- 工作电流 35mA
- 亮度增益  $10000-20000\text{cd}/\text{m}^2/\text{lx}$
- 最大输出亮度  $4\sim 10\text{cd}/\text{m}^2$
- 等效背景照度  $0.25 \mu\text{lx}$
- 工作照度范围  $1 \times 10^{-6}\sim 5 \times 10^4\text{lx}$
- 亮度均匀性 (2856K) 3:1
- 阴极有效直径 17.5mm
- 电源 门控
- 荧光粉 P43
- 重量 85g



防光晕玻璃输入窗，球面、高分辨力、高对比度倒像输出窗，高探测率微通道板电子倍增器，高精度装配技术，触片式电器接口，自动门控电源技术。  
应用领域:头盔、枪瞄。

#### 参数

- 品质因数 1800
- 灵敏度 (2856K)  $850 \mu A/lm$
- 信噪比 28
- 分辨力 64lp/mm
- 强光分辨力 (200lx) 54lp/mm
- 工作电压 2.2-3.4 V
- 工作电流 35mA
- 亮度增益 10000-20000cd/m<sup>2</sup>/lx
- 最大输出亮度 4~10cd/m<sup>2</sup>
- 等效背景照度  $0.25 \mu lx$
- 工作照度范围  $1 \times 10^{-6} \sim 5 \times 10^4 lx$
- 亮度均匀性 (2856K) 3:1
- 阴极有效直径 17.5mm
- 电源 门控
- 荧光粉 P43
- 重量 85g

### Model 2 GT6864

#### Product Overview

GT6864 can resolve more night details and have a wider dynamic range. We apply the latest integrated technology to this image intensifier, enabling users to observe more image details. The intensifier features an auto-gating power supply for easy use in dynamic lighting conditions without damage to the image intensifier. The auto-gating operate continuously according to changes in the environment, continuously improving image quality, and can be used not only during the day or night. Image intensifiers are compatible with a variety of optical systems and application scenarios, providing choices for multiple types of customers.

#### Technical Features

Anti-halation glass input window, spherical, high-resolution, high-contrast inverted image output window, high detection rate micro-channel plate electron multiplier, high-precision assembly technology, contact-type electrical interface, and auto-gating power supply technology.

**Application fields** Helmet and gun sight

#### Parameter

- FOM 1800
- Sensitivity (2856K)  $850 \mu A/lm$
- SNR 28
- Resolution 64lp/mm
- High light resolution (200lx) 54lp/mm

- Operating voltage 2.2-3.4V
- Operating current 35mA
- Luminance gain 10000-20000cd/m<sup>2</sup>/lx
- Maximum output brightness 4~10cd/m<sup>2</sup>
- Equivalent background illumination 0.25 μ lx
- Working illumination range 1 × 10<sup>-6</sup>~5 × 10<sup>4</sup>lx
- Uniformity of luminance(2856K) 3:1
- Cathode effective diameter 17.5mm
- Power supply Auto-gating
- Fluorescent powder P43
- Weight 85g

### 型号 3 GT5864

#### 产品概况

GT5864 像增强器是专为枪瞄等夜视系统设计。具有高效率的多碱光电阴极、防光晕玻璃输入窗、微通道板电子倍增器、球面正像光纤输出窗、以及 P22 或 P43 荧光屏。这些技术提供了一个非常高信噪比,具有广泛的光谱检测范围,并且在弱光条件下也具有卓越的分辨力。

#### 技术特点

防光晕玻璃输入窗,球面倒像输出窗,微通道板电子倍增器,高精密装配技术,触片式电器接口,非门控电源技术。

应用领域 头盔、枪瞄

#### 参数

- 品质因数 1600
- 灵敏度 (2856K) 700 μ A/lm
- 信噪比 23
- 分辨力 60lp/mm
- 强光分辨力 (200lx) -
- 工作电压 2.2-3.4V
- 工作电流 25mA
- 亮度增益 8000-12000cd/m<sup>2</sup>/lx
- 最大输出亮度 4~8cd/m<sup>2</sup>
- 等效背景照度 0.25 μ lx
- 工作照度范围 1 × 10<sup>-6</sup>~5 × 10<sup>2</sup>lx
- 亮度均匀性 (2856K) 3:1
- 阴极有效直径 17.5mm
- 电源 非门控 (可选门控)
- 荧光粉 P22/P43
- 重量 85g

### Model 3 GT5864

#### Product Overview

GT5864 are specially designed for night vision systems such as gun sights, which have features of high efficiency multi-alkali photocathode, anti-halation glass input window,

micro-channel plate electron multiplier, spherical erector optical fiber output window, and P22 or P43 fluorescent screen. These techniques provide a very high SNR with a wide spectral detection range and excellent resolution even in low light conditions.

#### Technical Features

Anti-halation glass input window, spherical inverted image output window, micro-channel plate electron multiplier, high-precision assembly technology, contact-type electrical interface, and non-gated power supply technology.

**Application fields**            Helmet and gun sight

#### Parameter

● FOM	1600
● Sensitivity (2856K)	700 $\mu$ A/lm
● SNR	23
● Resolution	60lp/mm
● High light resolution (200lx)	-
● Operating voltage	2.2-3.4V
● Operating current	25mA
● Luminance gain	8000-12000cd/m <sup>2</sup> /lx
● Maximum output brightness	4~8cd/m <sup>2</sup>
● Equivalent background illumination	0.25 $\mu$ lx
● Working illumination range	1 $\times$ 10 <sup>-6</sup> ~5 $\times$ 10 <sup>2</sup> lx
● Uniformity of luminance(2856K)	3:1
● Cathode effective diameter	17.5mm
● Power supply	Auto-gating is optional
● Fluorescent powder	P22/P43
● Weight	85g

### 型号 4 GT4864

#### 产品概况

GT4864 像增强器是为微光夜视设备提供低照度成像的关键设备，它宽广的光谱灵敏度范围，可以适应所有环境条件。新的生产技术提高了信号-噪声比（SNR）的性能，分辨力。再加上它的小光晕、球面正像的输出、10000 小时的使用寿命，你会被它独特的特性所吸引。

#### 技术特点

防光晕玻璃输入窗，球面倒像输出窗，微通道板电子倍增器，触片式电器接口，非门控电源技术。

**应用领域**    头盔、枪瞄

#### 参数

● 品质因数	1000
● 灵敏度 (2856K)	650 $\mu$ A/lm
● 信噪比	20
● 分辨力	51lp/mm
● 强光分辨力 (200lx)	-
● 工作电压	2.2-3.4V
● 工作电流	25mA
● 亮度增益	8000-12000cd/m <sup>2</sup> /lx

- 最大输出亮度 4~8cd/m<sup>2</sup>
- 等效背景照度 0.25 μ lx
- 工作照度范围 1 × 10<sup>-6</sup>~1 × 10<sup>2</sup>lx
- 亮度均匀性 (2856K) 3:1
- 阴极有效直径 17.5mm
- 电源 非门控
- 荧光粉 P22
- 重量 85g

#### **Model 4 GT4864**

##### **Product Overview**

GT4864 is the key device to provide low-light imaging for low-light night vision equipment, which has a wide spectral sensitivity range and can adapt to all environmental conditions. New production techniques improve signal-to-noise ratio (SNR) performance, resolution. And combine that with its small halo, output of spherical positive, and 10,000-hour lifespan, and you'll be captivated by its unique characteristics.

##### **Technical Features**

Anti-halation glass input window, spherical inverted image output window, micro-channel plate electron multiplier, contact-type electrical interface, and non-gated power supply technology.

**Application fields**    Helmet and gun sight

##### **Parameter**

- FOM 1000
- Sensitivity (2856K) 650 μ A/lm
- SNR 20
- Resolution 51lp/mm
- High light resolution (200lx) -
- Operating voltage 2.2-3.4V
- Operating current 25 mA
- Luminance gain 8000-12000cd/m<sup>2</sup>/lx
- Maximum output brightness 4~8cd/m<sup>2</sup>
- Equivalent background illumination 0.25 μ lx
- Working illumination range 1 × 10<sup>-6</sup>~1 × 10<sup>2</sup>lx
- Uniformity of luminance(2856K) 3:1
- Cathode effective diameter 17.5mm
- Power supply Normal Power Supply
- Fluorescent powder P22
- Weight 85g