

# JIMNVT-B-20-超二代像增强器

JIMNVT-B-20 Super Second Generation Low-Light-Level Image Intensifier

JIMNVT-B-20 Super Second Generation Low-Light-Level

Image Intensifier is primarily designed for

single-tube binocular night vision devices. It is

fully compatible with the U.S. military MX10130 image

intensifier standard.



## JIMNVT-B-X0 Super Second Generation Low-Light-Level Image Intensifier

| Technical Parameters                    | JIMNVT-B-10                                                                                                       | JIMNVT-B-20 | JIMNVT-B-30  | Units                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------|--------------|-----------------------|
| Photocathode Effective Diameter         | $\geq 17.5$                                                                                                       |             |              | mm                    |
| Photocathode Materials                  | Na2KSb(Cs)                                                                                                        |             |              | -                     |
| Input Window                            | Anti-Reflection Glass                                                                                             |             |              | -                     |
| Output Window                           | Typical Erecting Spherical (SR18)<br>Customizable Options: Inverting Planar, Inverting Spherical, Erecting Planar |             |              | -                     |
| Phosphor                                | P43/P45                                                                                                           |             |              | -                     |
| Figure of Merit(FOM)                    | 1200                                                                                                              | 1400        | 1600         | -                     |
| Signal-to-Noise Ratio(SNR)              | $\geq 20$                                                                                                         | 22          | 25           | -                     |
| Resolution                              | 60                                                                                                                | 64          | 64           | lp/mm                 |
| Luminance Gain                          | $\geq 6000$                                                                                                       | $\geq 8000$ | $\geq 10000$ | cd/m <sup>2</sup> /lx |
| Maximum Output Luminance                | $\geq 4$                                                                                                          |             |              | cd/m <sup>2</sup>     |
| Equivalent Background Illumination(EBI) | $\leq 0.25$                                                                                                       |             |              | $\mu$ lx              |
| Operating Current @3V                   | $\leq 20$                                                                                                         |             |              | mA                    |
| Operating Voltage                       | 2.2~3.4                                                                                                           |             |              | V                     |
| Weight                                  | $\leq 78$                                                                                                         |             |              | g                     |
| Power Supply                            | Non-Gated/Gated                                                                                                   |             |              | -                     |
| Electrical Interface                    | Lead Wires/Contact Pins                                                                                           |             |              | -                     |
| Operating Temperature                   | -45~+55                                                                                                           |             |              | ℃                     |
| Storage Temperature                     | -55~+70                                                                                                           |             |              | ℃                     |

## Black Spot Requirements

| Black Spot Size / mm | $\phi \leq 5.6\text{mm}$ | $5.6\text{mm} < \phi \leq 14.7\text{mm}$ | $\phi > 14.7\text{mm}$ |
|----------------------|--------------------------|------------------------------------------|------------------------|
| $\geq 0.228$         | 0                        | 0                                        | 0                      |
| 0.152~0.228          | 0                        | 1                                        | 1                      |
| 0.075~0.152          | 0                        | 2                                        | 2                      |

