



| Image Intensifier Tube Specification | | | |
|--------------------------------------|---|-------------|---|
| Item | Gen2+ Image Intensifier Tube | | Real Gen3 Image Intensifier Tube |
| Resolution | 51-60 lp/mm | 60-64 | 60-74 lp/mm |
| Signal to Noise Ratio | 20 | 23 | 31.66 |
| Sensitivity | 650 $\mu\text{A}/\text{lm}$ | 700 | 1816 $\mu\text{A}/\text{lm}$ |
| Quality Factor(FOM) | 1000 | 1600 | 1900 |
| Operating Voltage | 2.3-3.4V | 2.2-3.4V | 2.5~3.5 V |
| Working Current | 25 mA | | 28 mA |
| Brightness Gain | 8000-12000 $\text{cd}/\text{m}^2/\text{lx}$ | | 12045 (@x 10-5 lx) $\text{cd}/\text{m}^2/\text{lx}$ |
| Maximum Output Brightness | 4-8 cd/m^2 | | 7.4 cd/m^2 |
| Equivalent Background Illumination | 0.25 μlx | | 1.4*10-7 μlx |
| Brightness Uniformity | 3:1 < (Unknown) id =0 class=font0> | | 1.23 (@2856K) < (Unknown) id =0 class=font0> |
| Cathode Effective Diameter | 17.5 mm | | 17.8 mm |
| Phosphor | P43/P45 | P22/P43/P45 | P43/P45 |
| Weight | 85 g | | 72.8 g |
| Dimensions | See the design non-automatic gate | | See the design |
| Small High Voltage Power Supply | Non-automatic gate (Automatic gate is optional) | | Automatic Gate |

PRODUCT OVERVIEW (Gen 2+ Gen3)

Generation 2+ (Gen 2+) low light image intensifier tubes offer multiple advantages over previous generations of night vision technology. It is high clarity with white imaging and green imaging.

Generation 3 (Gen 3) low light image intensifier tubes offer multiple advantages over previous generations of night vision technology. It is very high definition with It has white phosphorus tubes and green phosphorus tubes

MAIN FEATURES (Gen 2+/Gen3)

1. Improved sensitivity: Gen 2+ tubes are more sensitive to low levels of light than previous predecessors, allowing for better performance in extreme low-light conditions.
2. Higher resolution: Gen 2+ tubes typically have higher resolution than Gen 2 tubes, resulting in a sharper and clearer image.
3. Longer lifespan: The cathode material used in Gen 3 tubes is more durable and lasts longer than the material used in Gen 2 tubes, resulting in a longer service life.

1. Improved sensitivity: Gen 3 tubes are more sensitive to low levels of light than previous predecessors, allowing for better performance in extreme low-light conditions.
2. Improved reliability: Gen 3 tubes are more reliable than previous generations, with fewer breakdowns
3. Reduced noise: Gen 3 tubes have lower levels of noise than previous generations, resulting in a clearer image with less interference.
4. Longer lifespan: The cathode material used in Gen 3 tubes is more durable and lasts longer than the material used in Gen 2 tubes, resulting in a longer service life.

