

JIMNVT-超二代像增强器

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

JIMNVT-Super Second Generation Low-Light-Level

Image Intensifier is primarily designed for

direct-view monocular, binocular, and quadocular

night vision devices. It is fully compatible with

the U.S. military MX10160 image intensifier standard.



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

Technical Parameters	JIMNVT-10	JIMNVT-20	JIMNVT-30	JIMNVT-40	JIMNVT-50	Units
Photocathode Effective Diameter			≥17.5			mm
Photocathode Materials			Na2KSb(Cs)			-
Input Window			Anti-Reflection Glass			-
Output Window			Typical Inverting Spherical (SR40)			-
Phosphor			Customizable Options: Inverting Planar, Erecting Spherical (SR40), Erecting Planar P43/P45			-
Figure of Merit (FOM)	1200	1400	1600	1800	2200	-
Signal-to-Noise Ratio (SNR)	≥20	22	25	27	31	-
Resolution	60	64	64	68	72	lp/mm
Luminance Gain	≥10000	≥10000	≥10000	≥12000	≥12000	cd/m²/lx
Maximum Output Luminance			≥4			cd/m²
Equivalent Background Illumination (EBI)			≤0.25			μlx
Operating Current @3V			≤20			mA
Operating Voltage			2.2~3.4			V
Weight			≤70			g
Power Supply			Non-Gated/Gated/External brightness and gain adjustment			-
Electrical Interface			Contact Pins			℃
Operating Temperature			-45~+55			
Storage Temperature			-55~+70			℃

Black Spot Requirements

Black Spot Size / mm	φ ≤ 5.6mm	5.6mm < φ ≤ 14.7mm	φ > 14.7mm
≥ 0.228	0	0	0
0.152 ~ 0.228	0	1	1
0.075 ~ 0.152	0	2	2