

SUPERGEN[®]



SUPERGEN[®] Technology Image Intensifiers

In the SuperGen[®] Image Intensifier we combined the improved sensitivity of GEN II with a best-of-class resolution, signal-to-noise and MTF.

The SuperGen[®] tube's improved sensitivity under wider spectral conditions provides enhanced contrast under all low light level conditions.

Special technology reduces the vulnerability for burn-in effects caused by higher light levels.

The SuperGen[®] Image Intensifier has a guaranteed minimal Signal-to-Noise Ratio (SNR) of 18 at 108 μlx and a minimum limiting resolution of 45 lp/mm.

PHOTONIS
NIGHT VISION



Technical specifications SUPERGEN® Technology Image Intensifiers

Resolution				
	Minimal	Typical	Maximal	UNIT
Limiting resolution - Type 1	45	51		lp/mm
Limiting resolution - Type 2	51	54		lp/mm
MTF (Modulation Transfer Function)				
	Minimal	Typical	Maximal	UNIT
2.5 lp/mm		88		%
7.5 lp/mm		70		%
15 lp/mm		50		%
25 lp/mm		30		%
30 lp/mm		22		%
Signal to Noise				
	Minimal	Typical	Maximal	UNIT
Signal to noise (@108µlx)	18	21		
Other Technical Data				
	Minimal	Typical	Maximal	UNIT
Phosphor: P22 (also available in P43)				
MTTF	10,000			hours
HALO		0.8		mm
Gain at 2 · 10 ⁻⁵ lx	30,000/π		55,000/π	cd/m ² /lx
Max. Output Brightness	2		17	cd/m ²
E.B.I.		0.15	0.25	µlx
Luminous sensitivity at 2850K	500	600		µA/lm
Radiant sensitivity at 800nm	43	55		mA/W
Radiant sensitivity at 850nm	33	45		mA/W
Output uniformity at 2850K		2:1	3:1	
Weight (18mm)		80	95	grams
Shock resistance	500			G

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