PHOTONIS | NIGHT VISION

XR5™ AUTO-GATING

XR5™ Auto-Gated Image Intensifier

The XR5™ Image Intensifier reveals more details of the night and offers eXtended Range capabilities.

We applied the latest technology to the XR5™, technology that enables the user to detect more details in operation. The prominent feature on the XR5™ is the integrated Auto-Gated power supply, facilitating operation under dynamic lighting conditions.

Auto-Gating constantly operates to improve the quality of the image, not only during day-night-day transitions, but also under dynamic lighting conditions, such as military operations in urban terrain which define many of today's missions. Our XR5™ Image Intensifier represents the new standard for Night Vision and is available in a variety of inverting and non-inverting 18 mm formats (form - fit - function) for existing and new optical systems.

Technical specifications

XR5™

AUTO-GATING

Resolution				
	Minimum	Typical	Maximum	Unit
Limiting resolution	64	72		lp/mm
High light level resolution (>200 lux)	55			lp/mm
MTF (Modulation Transfer Function)				
	Minimum	Typical	Maximum	Unit
2.5 lp/mm		94		%
7.5 lp/mm		85		%
15 lp/mm		70		%
25 lp/mm		50		%
30 lp/mm		40		%
Signal-to-noise Ratio (SNR)				
	Minimum	Typical	Maximum	Unit
Signal-to-noise Ratio (@ 108 µlx)	25	28		
Auto-Gating Power Supply Unit				
	Minimum	Typical	Maximum	Unit
Luminance dynamic range	1×10^{-6}		5×10^{4}	lux
Input voltage	2	2.7	3.5	Volt
Input current		25	35	mA
Other Technical Data				
	Minimum	Typical	Maximum	Unit
Phosphor		P22 (also available in P43)		
MTTF	15.000			hours
Halo		0.8		mm
Gain at 2×10^{-5} lx	10.000		18.000	cd/m²/lx
Gain at 2×10^{-6} fc	30.000		55.000	fL/fc
Max. Output Brightness	2		17	cd/m²
E.B.I.		0.15	0.25	µlx
Output uniformity 2850K		2:1	3:1	
Weight		80	95	grams
Shock resistance	500			g

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For more information, please visit www.photonis.com

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