

# XR5™

## AUTO-GATING



## XR5™ Technology Autogated Image Intensifiers

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 during a full 24-hour operation.

The prominent feature on the XR5™ is the integrated autogated power supply, facilitating true 24/7 operation.

Autogating 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 mission.

Our XR5™ Image Intensifier represents the new standard for night vision and is available in a variety of inverting and non-inverting 18mm formats (form - fit - function for existing and new optical systems).

**PHOTONIS**  
NIGHT VISION



## Technical specifications XR5™ Technology Image Intensifiers



Resolution				
	Minimal	Typical	Maximal	UNIT
Limiting resolution	64	72		lp/mm
MTF (Modulation Transfer Function)				
	Minimal	Typical	Maximal	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				
	Minimal	Typical	Maximal	UNIT
Signal to noise (@108µlx)	25	28		
Autogating Power Supply Unit				
	Minimal	Typical	Maximal	UNIT
Luminance Dynamic Range	1.10 <sup>-6</sup>		5.10 <sup>3</sup>	lux
Input Voltage	2		3.7	Volt
Input Current			35	mA
Other Technical Data				
	Minimal	Typical	Maximal	UNIT
Phosphor: P22 (also available in P43)				
MTTF	15.000			hours
HALO		0.8		mm
Gain at 2.10 <sup>-5</sup> lx	30.000/π		55.000/π	cd/m <sup>2</sup> /lx
Max. Output Brightness	2		17	cd/m <sup>2</sup>
E.B.I.		0.15	0.25	µlx
Luminous sensitivity at 2850K	700	800		µA/lm
Radiant sensitivity at 800nm	65	78		mA/W
Radiant sensitivity at 850nm	50	65		mA/W
Output uniformity at 2850K		1.8:1	3:1	
Weight (18mm)		80	95	grams
Shock resistance	500			G

**PHOTONIS**  
NIGHTVISION

The Netherlands: P.O. Box 60, 9300 AB Roden  
 France: B.P. 520, 19106 Brive Cedex  
 E-mail: [nightvision@photonis.com](mailto:nightvision@photonis.com)

Phone +31 (0)50 501 8808  
 Phone +33 (0)555 863 700  
 Internet [www.photonis-nightvision.com](http://www.photonis-nightvision.com)

Fax +31 (0)50 501 1456  
 Fax +33 (0)555 863 773