



## DEP XD4 Technology Image intensifier

The introduction of the DEP XD4 technology set the new European standard for low-light-level imaging.

DEP XD4 Image Intensifiers perform extremely well in all environmental conditions.

Its broad spectral sensitivity range results in a perfect picture.

New production technology resulted in improved performance of the Signal-to-Noise Ratio (SNR), the Modulation Transfer Function (MTF) and Resolution.

Add to this features like the small halo and the extended lifetime and you will be convinced of its unique performance.

<b>Resolution</b>	<b>Minimal</b>	<b>Typical</b>	<b>Maximal</b>	<b>UNIT</b>
Limiting resolution	57	64		lp/mm
<b>MTF (Modulation Transfer Function)</b>	<b>Minimal</b>	<b>Typical</b>	<b>Maximal</b>	<b>UNIT</b>
2.5 lp/mm		92		%
7.5 lp/mm		80		%
15 lp/mm		58		%
25 lp/mm		45		%
30 lp/mm		35		%
<b>Signal to Noise Ratio</b>	<b>Minimal</b>	<b>Typical</b>	<b>Maximal</b>	<b>UNIT</b>
Signal to noise (@108 $\mu$ lx)	20	23		
<b>Other Technical Data</b>	<b>Minimal</b>	<b>Typical</b>	<b>Maximal</b>	<b>UNIT</b>
Phosphor: P20 (also available in P22 and P43)				
MTTF	15.000			hrs
HALO		0.8		mm
Gain at 2.10 <sup>-5</sup> lx	30.000/ pi		55.000/ pi	cd/m <sup>2</sup> / lx
Max. Output Brightness	2		17	cd/m <sup>2</sup>
E.B.I.		0.15	0.25	$\mu$ lx
Luminous sensitivity at 2850K	600	700		$\mu$ A/lm
Radiant sensitivity at 800nm	50	60		mA/W
Radiant sensitivity at 850nm	40	50		mA/W
Output uniformity at 2850K		2:1	3:1	
Weight (18mm)		80	95	grams
Shock resistance	500			G
<b>Autogating Power Supply Unit (OPTIONAL)</b>				
Input voltage	2		3.7	Volt
Input current (with Autogating)			35	mA
Luminance dynamic range	1.10 <sup>-6</sup>		5.10 <sup>3</sup>	Lux