



PHOTONIS-DEP
ISO 9001 Certified

18/18 Gen. II non-inverting Image Intensifier,
XX1451

184-3046A1

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<u>OPERATING CONDITIONS</u>	<u>Minimum</u>	<u>Nominal</u>	<u>Maximum</u>	<u>Unit</u>
Ambient temperature	-20	+20	+40	°C
Supply voltage	2.0	2.7	3.4	VDC

SPECIFICATION (at nominal operating conditions)

	<u>Minimum</u>	<u>Typical</u>	<u>Maximum</u>	<u>Unit</u>
Input window: AVG				
Input useful diameter	17.5			mm
Cath.sensitivity 2850 K	240			µA/lm
at 800 nm	15			mA/W
at 850 nm	10			mA/W
Output phosphor: P20-AF				
Output window: fibre-optic				
Luminance gain	4000		8000	cd/m ² /lx
Resolution	32	34		lp/mm
Maximum output brightness	8	10	12	cd/m ²
E.B.I.		0.25	0.35	µlx
S/N ratio (108 µlx)	12	14		
Shading over 16 mm			3:1	
Shear distortion			61	µm
Gross distortion			75	µm

Black spots:

The number of spots, exceeding a contrast with their surrounding area of 30%, is less or equal to the number indicated in the table below. The size of non-circular spots is determined on the basis of equal area to circular spots. When the distance between two spots is less than the maximum dimension of either spot, the two spots are considered as one spot.

Spots:

<u>Size of spots</u>	<u>Maximal number of spots allowed in area bounded by</u>		
	<u>Ø5.6mm</u>	<u>Ø5.6 – Ø14.7mm</u>	<u>Ø14.7 – Ø17.5mm</u>
> 300 µm	0	0	0
200 - 300 µm	0	1	1
125 - 200 µm	0	1	4
75 - 125 µm	2	4	12
< 75 µm	minimal	minimal	minimal

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