

HD 1270

Image intensifier

HD1270 is Gen I 2-stage image intensifier with electrostatic-focusing. Equivalent label XX1270.

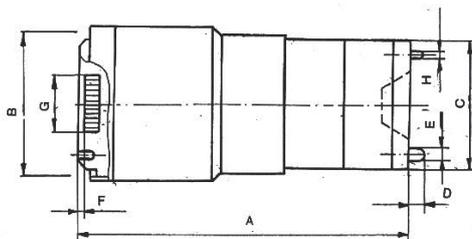
HD1270 incorporates 2 image modules, oscillator and 2 stage cascade.

It incorporates S25 photocathode and aluminized phosphor screen. The power supply incorporates automatic brightness control (ABC) to provide a constant output image brightness as light levels varies.

The HD1270 is completely self-contained image intensifier tube encapsulated within a hard surface insulating sleeve.

Performance	Unit	Min.	Max.
Cathode sensitivity 2856°K	$\mu\text{A}/\text{lm}$	300	
	800 nm mA/W	20	
	850 nm mA/W	15	
EBI	μlux		0.20
Luminous gain at 2×10^{-5} lux	$\text{Cd}/\text{m}^2/\text{lux}$	5700	
Supply current	mA		50
Output uniformity			2 : 1
Limiting resolution	lp/mm	28	
MTF at 12.5 lp/mm	%	75	
25 lp/mm	%	45	
50 lp/mm	%	10	
Photocathode diameter	mm	18	
MTTF	hours	2000	

Picture quality			
Size (μm)	I	II	III
381-500	0	0	0
301-380	0	1	2
231-300	0	3	6
150-230	1	6	10
70-150	3	9	15



Ref	Min (mm)	Max (mm)
A	99,0	100,0
B	$\varnothing 53,8$	$\varnothing 54,2$
C	$\varnothing 49,2$	$\varnothing 49,4$
D	5,3	5,7
E	$\varnothing 3,9$	$\varnothing 4,0$
F	—	2,1
G	$\varnothing 21$	—

