

HD 1430

Image intensifier

HD1430 is single stage image intensifier with electrostatic focusing and 40mm useful diameter.

HD1430 is designed for AN/VSG-2 system in tanks. Powered by external high voltage power supply. It incorporates S25 photocathode and aluminized phosphor screen. The HD1430 is image intensifier tube encapsulated within a hard-surface insulating sleeve, with external contacts for power supply.

Performance	Unit	Min.	Max.
Cathode sensitivity for 2856°K	μA/lm	250	
800 nm	mA/W	15	
850 nm	mA/W	10	
660 nm	mA/W	20	
EBI	μlux		0.20
Luminous gain at $3\text{-}5 \times 10^{-2}$ lux	Cd/m ² /lux	100	
Operating voltage	KV	8	16
Output uniformity			2 : 1
Limiting resolution	lp/mm	64/57	
MTF at 5 lp/mm	%	93	
Distortion	%		7
Magnification		0.94	1.00
Photocathode diameter	mm	40	
MTTF	hours	4000	

Picture quality			
Size (μm)	I 0-7.6 mm	II 7.61-30.49 mm	III 30.50-37.50 mm
381-500	0	0	0
301-380	0	1	1
231-300	0	1	3
150-230	1	3	6
70-150	1	15	20

