

HD 2100

Image intensifier

HD2100 is 18mm, inverting Gen II+ image intensifier tube.

It is a high gain, high photosensitivity image intensifier tube suitable for passive night vision systems and goggles.

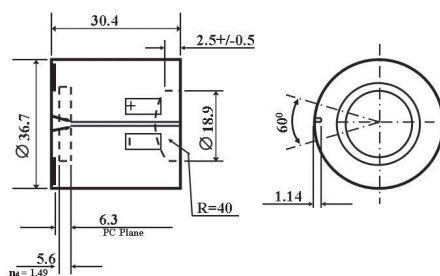
The HD2100 consists of a high efficiency S25 extended red photo-cathode on a glass input window; a microchannel plate (MCP) current amplifier; and a fiber optic phosphor screen.

The HD2100 has a high voltage power supply which incorporates automatic brightness control (ABC) to provide a constant output image brightness as light levels varies. The power supply also provides bright source protection (BSP) to guard the tube against exposure to high levels of light.

The HD2100 is completely self-contained image intensifier tube encapsulated within a hard-surface insulating sleeve.

Performance	Unit	Min.	Max.
Cathode sensitivity 2856°K	μA/lm	500	
	830 nm mA/W	40	
Signal-to-Noise ratio		17.5	
EBI	μlux		0.25
Luminous gain at 2×10^{-5} lux	Cd/m ² /lux	12000	17000
Supply current	mA		32
Output uniformity			3 : 1
Limiting resolution	lp/mm	57	
MTF at 2.5 lp/mm	%	86	
7.5 lp/mm	%	58	
15.0 lp/mm	%	28	
Photocathode diameter	mm	17.5	
MTTF	hours	4500	

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



All dimensions are for reference only.

447 327 02 S.mtd

