

HD-1520A-AUG GEN III

18 mm, Inverting image intensifier tube

Description

HDS-1520 series is 18mm, Gen III, inverting image intensifier tube producing green scenery image. It is a high-gain, high-photosensitivity image intensifier tube suitable for passive night vision systems and goggles.

The HDS-1520 consists of a high-efficiency (GaAs) extended red photo-cathode on an AVG glass input window; a micro-channel plate (MCP) current amplifier; and output Inverting fiber optic with P43 phosphor screen.

The HDS-1520 has a high-voltage power supply which incorporates (ABC) automatic brightness control to provide a constant output image brightness as light levels varies. The power supply also provides (BSP) bright source protection to guard the tube against exposure to high levels of light.

The HDS-1520 is completely self-contained image intensifier tube encapsulated within a hard-surface insulating sleeve.

Performance:

· Luminous Sensitivity at 2856°K

• Radiant Sensitivity at 830 nm

• Signal-to-Noise Ratio

• EBI (10⁻¹¹lm/cm⁻²)

• Luminous Gain at 2x 10⁻⁶ fc

Supply Current

· Output Uniformity at 2856°K

· Limiting Resolution

• FOM

MTF at 2.5 lp/mm
7.5 lp/mm

15.0 lp/mm

· Photocathode diameter

MTTF

min. 1800 μA/lm min. 190 mA/W min. 25 max. 2.5

40,000 to 70,000 fl/fc

max. 32 mA max. 3:1

max. 64 lp/mm

min. 1600

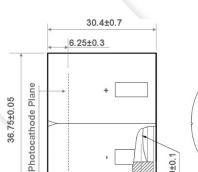
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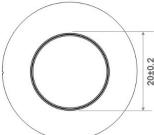
min. 92% min. 80%

min. 61%

min. 17.5 mm

10,000 hours





Picture quality table

(Maximum allowable spots in each zone)

Spot Size	I	II	III
(microns)			
401-500	0	0	0
301-400	0	0	0
231-300	0	0	0
151-230	0	1	1
75-150	1	2	2
<75	minimal		

All data and dimensions are for reference only. Subject to change without notice.



