



01 / CAPABILITY OVERVIEW

HD 1520A

HD 1520A 18 mm Gen III image intensifier tube



FIG 01 PRODUCT CONFIGURATION

64 lp/mm

LIMITING RESOLUTION

**18 mm, inverting,
Gen III**

TYPE

**GaAs extended red on
glass input window**

PHOTOCATHODE

**1650 μ A/lm at
2856 K**

CATHODE SENSITIVITY

01.1 / OVERVIEW

18 mm inverting Gen III image intensifier tube with GaAs extended red photocathode, MCP amplifier, ABC and bright source protection.

TYPE

Image intensifier

PROCUREMENT AND COMPLIANCE

Supply is exclusively for government and institutional end-users. Availability is subject to destination screening, a state-issued export licence and a verified End-User Certificate.



02 / TECHNICAL SPECIFICATION

TECHNICAL DATA

HD 1520A / TECHNICAL EQUIPMENT

PERFORMANCE

Cathode sensitivity	1650 uA/lm at 2856 K
Radiant sensitivity	160 mA/W at 830 nm
Limiting resolution	64 lp/mm

INTERFACES AND OPERATION

Supply current	32 mA
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PHYSICAL DATA

Photocathode diameter	17.5 mm
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ADDITIONAL TECHNICAL DATA

Type	18 mm, inverting, Gen III
Photocathode	GaAs extended red on glass input window
Signal-to-noise ratio	21
EBI	0.25 ulux
Luminous gain	17000 to 22000 cd/m2/lux at 2x10 ⁻⁵ lux
Output uniformity	3 : 1
MTF	90% at 2.5 lp/mm; 70% at 7.5 lp/mm; 45% at 15.0 lp/mm
MTTF	10000 hours



03 / CONFIGURATION VIEWS

CONFIGURATION VIEWS

HD 1520A / SUPPLEMENTARY CATALOGUE VIEWS

FIG 02 / dimensioned outline drawing

