

INFRARED DETECTORS



GALATEA HHTI™

640 x 512 - 15µm

The GALATEA HHTI™ product is ideal for ground portable applications featuring miniaturization and low power consumption.

THE **SWAP** SOLUTION FOR HIGH QUALITY **VGA** SENSORS IN PORTABLE APPLICATIONS

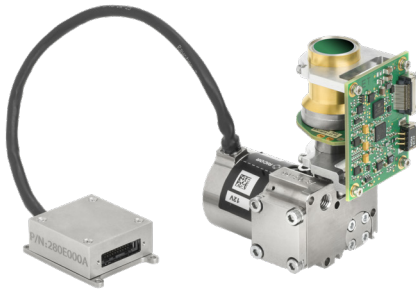
-  HIGH IMAGE QUALITY
-  SMALL SIZE
-  LOW POWER CONSUMPTION

DEFENSE

PORTABLE



ORDERING REFERENCE: GALATEA HHTI™



●● THE SWAP SOLUTION FOR HIGH QUALITY VGA SENSORS IN PORTABLE APPLICATIONS ●●

MULTI-PURPOSE



LOW POWER



COMPACT



WEIGHT



PRODUCT EMBEDDED FEATURES

IDCCA + PROXIMITY BOARD + CRYOCOOLER CONTROLER

ARRAY FEATURES

Detector spectral response ■ 3.6 to 4.2 μ m

FPA operating temperature ■ Up to 150 K

ROIC (READ-OUT INTEGRATED CIRCUIT)

Selection ■ IWR and ITR

ROIC architecture ■ Direct Injection

ROIC functionalities ■ Invert/Revert

Windowing modes ■ Down to 160 x 2

Charge handling capacity ■ 2.1 Me-

Signal output rate ■ 10 MHz

Frame rate ■ 60 Hz

TYPICAL PERFORMANCES

NETD ■ < 25,4 mK (27°C, 50%WF, f/4)

Array operability ■ > 99,5%

RFPN at 50% well fill ■ < 0.5 x RMS noise

CRYOCOOLER CONTROLER	RM51	K580i
Aperture	■ f/4; f/5.5	■ f/4; f/5.5
Regulated Input power @20°C	■ 2 Wdc	■ 2.7 Wdc
Cooldown Input power @20°C	■ 6.9 Wdc	■ 10.5 Wdc
Cooldown time @20°C	■ < 3 min	■ < 3 min 30 sec
Weight	■ 230 g	■ 285 g
MTTF (*)	■ > 12 000 h	■ > 12 000 h

Aperture ■ f/4; f/5.5

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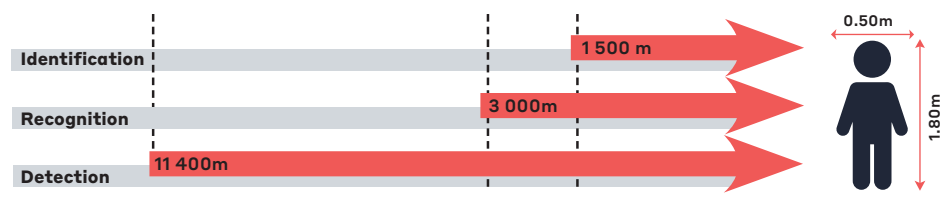
MTTF (*) ■ > 12 000 h

(*) Target values

OPTIONS

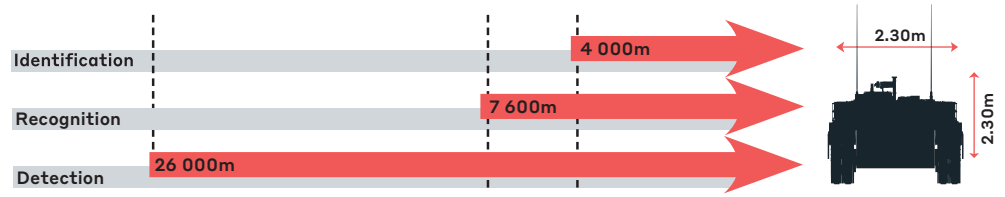
Technical training and support

Theoretical D.R.I Performances (200 mm lens) - Human Target



Range for Johnson's criteria, target deltaT = 2K, perfect atmospheric and optics transmissions, theoretical square pixel. f/4 configuration

Theoretical D.R.I Performances (200 mm lens) - 2.3 m vehicle target



Range for Johnson's criteria, target deltaT = 2K, perfect atmospheric and optics transmissions, theoretical square pixel. f/4 configuration

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