



LYNRED®

See Beyond Horizons



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™

TECHNICAL DATA NOT CLASSIFIED UNDER EXPORT CONTROL REGULATION



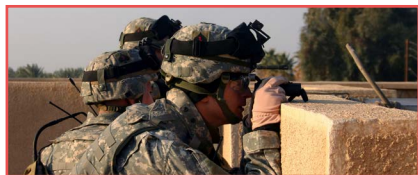
LOW POWER



COMPACT



WEIGHT



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

PRODUCT EMBEDDED FEATURES

IDDCA + PROXIMITY BOARD + CRYOCOOLER CONTROLLER

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

DEWAR & COOLER

Optical aperture ■ f/4; f/5.5

Weight ■ 230 g

Cryo Cooler ■ RMs1

Regulated Input power @20°C ■ 2 Wdc

Cooldown Input power @20°C ■ 6.9 Wdc

Cooldown time @20°C ■ < 3 min

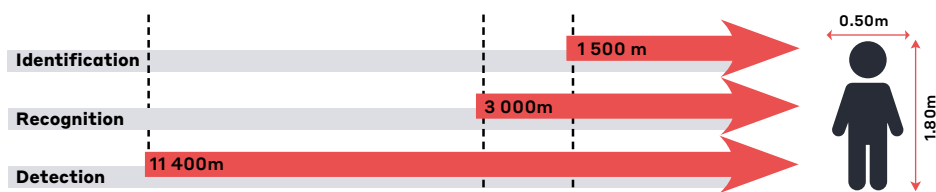
MTTF ■ > 16 000 h

AVAILABLE SERVICES

LYNRED Toolbox™ (LTB)

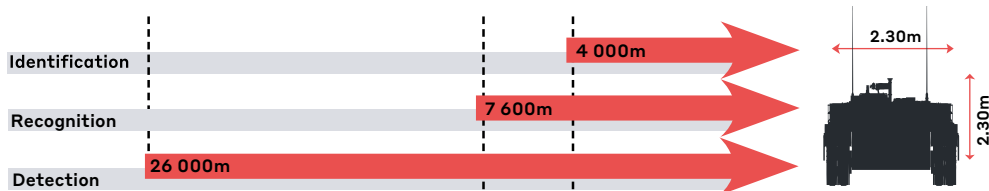
Technical training and support

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



Range for Johnson's criteria, target $\Delta T = 2$ K, 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 $\Delta T = 2$ K, perfect atmospheric and optics transmissions, theoretical square pixel. f/4 configuration

LYNRED HEADQUARTERS DEVELOPMENT & PRODUCTION CENTER

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