



Lynred launches Galatea MW, a compact, lightweight and low power infrared detector

Lynred's latest SWaP (size, weight & power) IR detector gives greater autonomy to handheld devices and battery powered equipment

Lynred will showcase Galatea MW at [DSEI](#), a world-leading defense and security event in London, UK, September 14 – 17, 2021, Booth H1-412

Grenoble, France, September 13, 2021 – Lynred, a leading global provider of high-quality infrared detectors for the aerospace, defense and commercial markets, today announces the launch of Galatea MW, one of the most compact and low power consumption infrared (IR) detectors on the market. Its SWaP (Size, Weight and Power) design enhances the autonomy and performance of battery powered devices.

Galatea MW, which optimizes the balance between performance and miniaturization, is well suited for applications where payload or mobility is critical. These include Unmanned Aerial Vehicles (UAVs), Unmanned Ground Vehicles (UGVs) and tactical infantry, such as Thermal Weapon Sights or Handheld Thermal Imaging (HHTI) equipment.

"With rising demand for surveillance systems and portable solutions for defense applications, Galatea offers the perfect combination of performance and miniaturization. It presents the best in SWaP features for the infrared detector market," said Jean-Yves Dussaud, chief marketing officer at Lynred. "Besides its small form factor, Galatea MW is easy to integrate, compatible with existing optics and user-friendly in every aspect. Initial feedback from customers underscores the confidence we have in the strong potential of this product. We look forward to showcasing this exciting solution at DSEI in London this week."

Market applications

Galatea MW aims at providing solutions for any device where miniaturization, battery life and weight matter in defense and surveillance applications.

One of the most critical areas is equipment for soldiers. As military tactical HHTI are becoming increasingly central to achieving strategic objectives in field operations, they need to be reliable and optimized for power management. Equipment that is easily portable is key to enhancing soldier mobility.

Product advantages

To enable an overall reduction in equipment payload and a gain in mission autonomy Lynred has optimized Galatea, a cooled 15-micron mid-wavelength IR detector, in three key areas:

- Low power consumption < 3 DC watts, to reduce battery size and lower its weight
- Lightweight < 230g, to improve portability and mobility
- Equivalent volume $\sim 230\text{cm}^3$ ($\sim 96 \times 50 \times 48$ mm), to ease integration and improve ergonomics

Other product features

- MW Blue – 3.6 μm -4.2 μm
- Time to operation: < 3 mins
- Cryogenic Cooler: RMs1 (THALES Cryogenic)
- Compact dewar
- Integrated proximity card
- Cooler regulation card

Lynred will display Galatea MW at DSEI in London, UK, September 14 – 17, in hall 1, booth 412.

About Lynred

Lynred and its subsidiaries, Lynred USA and Lynred Asia-Pacific, are global leaders in designing and manufacturing high quality infrared technologies for aerospace, defense and commercial markets. It has a vast portfolio of infrared detectors that covers the entire electromagnetic spectrum from near to very far infrared. The Group's products are at the center of multiple military programs and applications. Its IR detectors are the key component of many top brands in commercial thermal imaging equipment sold across Europe, Asia and North America. The organization is the leading European manufacturer for IR detectors deployed in space.

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