



## LYNRED - NIT unveils High-Performance SWIR LineScan Camera, LiSaSWIR

**LiSaSWIR will bring unprecedented performance to Silicon Wafer, Solar Panel Inspection and Waste management**

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LYNRED, a global leader in infrared (IR) imaging technologies, announces the launch through its subsidiary New Imaging Technologies (NIT) of LiSaSWIR, its next-generation SWIR LineScan camera and sensor specifically designed for the inspection of silicon wafers, solar panels and waste management. Building on the success of NIT's previous solutions, LiSaSWIR Camera delivers significantly enhanced performance, offering higher sensitivity, faster image acquisition, and improved cost-efficiency.

### **Enhanced performance driving cost efficiency in industrial production**

Amid rising global demand for solar panels and silicon wafers, alongside the reshoring of manufacturing operations to Western countries, LiSaSWIR is engineered to meet the needs of production facilities in targeted sectors. It delivers high-resolution imaging at high speeds, ideal for critical applications such as silicon wafer and solar panel inspection, hot glass monitoring on industrial conveyor belts, and waste sorting operations.

Compared to its predecessor - LiSa Cam V1-, LiSaSWIR offers:

- Double the sensitivity
- 30% faster readout speed
- Integrated IWR (Integration While Read) function enabling over 100% increase in operational speed

The 2048x1 pixel structure (8µm pixel pitch) is optimized for compatibility with standard 1.1" optical format lenses, widely used in industrial inspection while proposing a best-in-class sensitivity level. This unique configuration ensures a strategic market position by aligning with industry-standard optics.

## **18 months of R&D result in concrete technological advances**

After 18 months of research and development, LiSaSWIR introduces significant technical and economic benefits, including:

- Lower cost-per-pixel for high-resolution imaging
- Best-in-class readout noise for ultra-short integration times
- Easy system integration via a compact design and GenICam-compliant interface

These improvements allow manufacturers to detect defects earlier in the production process, reducing scrap rates and non-quality costs. The increased speed and sensitivity of LiSaSWIR contribute directly to optimizing overall production efficiency.

“The NIT team is thrilled to bring to market the new LiSaSWIR camera”, says François Coursaget, General Manager of NIT and continues: “This industrial sensor and camera will provide a high-definition and high-performance inspection solution to our customers at a price point that will enable new breakthrough applications”.

## **Supporting the renewable energy transition**

With this new NIT product, LYNRED reinforces its commitment to supporting the renewable energy industry. LiSaSWIR marks a key step in the company’s engagement toward more sustainable industrial solutions and reducing environmental impact.

## **About LYNRED**

LYNRED, alongside its subsidiaries LYNRED USA, LYNRED Asia-Pacific and New Imaging Technologies (NIT), is a global leader in designing and manufacturing high quality infrared technologies for aerospace, defense and commercial markets. It has a vast portfolio of infrared sensors that covers the entire electromagnetic spectrum from near to very far infrared. Its products are at the center of multiple military programs and applications and are key components in many top brands in commercial thermal imaging equipment sold across Europe, Asia and North America. LYNRED is the leading European manufacturer for IR detectors deployed in space.

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