



## REVOLUTIONIZING PROCESS CONTROL & NON-DESTRUCTIVE TESTING

### What is Flir A6450?

The Flir A6450 is the next-generation cooled MWIR camera designed to transform automation and quality assurance.

Building on industry-standard electronics, the A6450 combines scientific-level performance with a revolutionary long-life cooler, enabling scalable, reliable, and precise process control.

Traditional cooled thermal inspections are often costly to maintain and difficult to integrate—requiring frequent service and complex sub-system communication.

Scaling automation programs with traditional cooled cameras is historically a barrier due to maintenance downtime; failing to modernize results in poor quality products and higher labor costs.

Flir A6450 solves these challenges with a high-sensitivity, plug-and-play platform that simplifies integration, standardizes quality, and scales effortlessly across manufacturing lines.

### With Long-life Cooled Thermal Imaging



**27,000 Hours** The industry-leading cooler life significantly reduces maintenance burdens compared to traditional cooled cameras, opening doors for 24/7 automation.



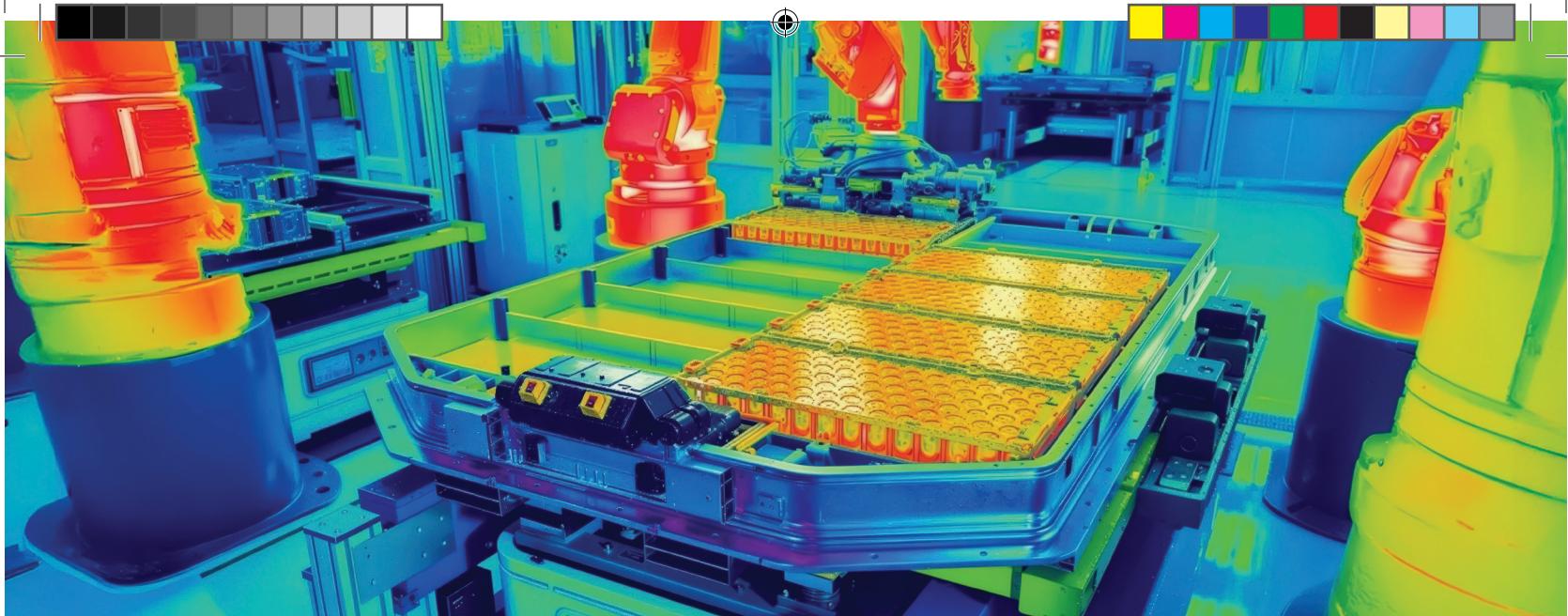
**Designed for continuous operation**, the A6450 minimizes costly production stops and reduces the risk of uneven quality control in manufacturing environments.



**125 Hz High-speed frame rates** allow for the capture of fast-moving targets and events without motion blur, ensuring precision in non-destructive testing.



**Zero Glitch** Built on industry-standard Flir A6700 electronics, the A6450 solves complex communication issues with glitch-free GigE Vision and GenICam implementation.



## Key Values

### Simplify and Speed Up Integration

Designed for machine builders and integrators, the A6450 utilizes simple standard GigE Vision and GenICam protocols. This “plug and play” capability with industry-leading Research Studio software allows for immediate testing before implementation, simplifying the workflow from development to the factory floor.

### Support 24/7 Automated Operations

The timing and cost of routine maintenance for cooled cameras have historically been major pain points. The A6450 features a revolutionary HOT MWIR detector with a linear cooler life of 27,000 hours, drastically reducing maintenance downtime and supporting continuous, round-the-clock production.

### Solve Complex Quality and Speed Challenges

There is a solution for fast-moving targets! The A6450 offers a 125 Hz frame rate and exceptional thermal sensitivity, allowing it to detect small thermal variations on high-speed lines. This capability solves “buyer pain points” regarding poor quality control and dangerous failures in designed automation systems.

## Key Applications

### Non-Destructive Testing (NDT)

- **Ideal for battery testing and aircraft material parts inspection**
- **Offers high sensitivity to detect minute defects**

### Manufacturing & Process Control

- **Ideal for industrial manufacturing, food & beverage, packaging, and pharmaceutical seal quality inspection**
- **Accurately measures temperatures on moving products to reduce risk and labor costs**

### Machine Vision

- **Ideal for electronics inspection and medical equipment manufacturing**
- **Accurately monitors high-speed, high-precision situations where thermal data is critical**

### Flir A6450 Specifications

Detector: Revolutionary HOT MWIR  
Cooler Life: 27,000 + hours  
Frame Rate: 125 Hz  
Connectivity: GigE Vision, GenICam, Spinnaker, SDK  
Software Compatibility: Flir Research Studio



Scan the code to learn more about the Flir A6450

