



Product Sheet

Visual AI-powered experiment monitoring & data analysis

Product Sheet



Overview

Even in the most advanced labs, scientists still rely on manual experiment monitoring and data capture. And even when some lab automation is present, there is still a significant volume of data flowing in and out of experiments, which scientists must record, collate and analyse.

Lumi™ is the first solution to capture, archive and share lab experiment data using computer vision. Targeted toward CROs, CDMOs, BioTech, and pharmaceuticals companies, Lumi™ is for labs that prioritise efficiency, safety, and customer service. It will help your scientists save time, increase reproducibility, and ensure every experiment meets requirements.

Our platform enables teams to move quickly on discoveries and accelerate speed-to-market of potentially world-changing products. And with the mundane work taken care of, scientists can focus more effort and energy on customer service, innovation, and knowledge transfer.

Product Details

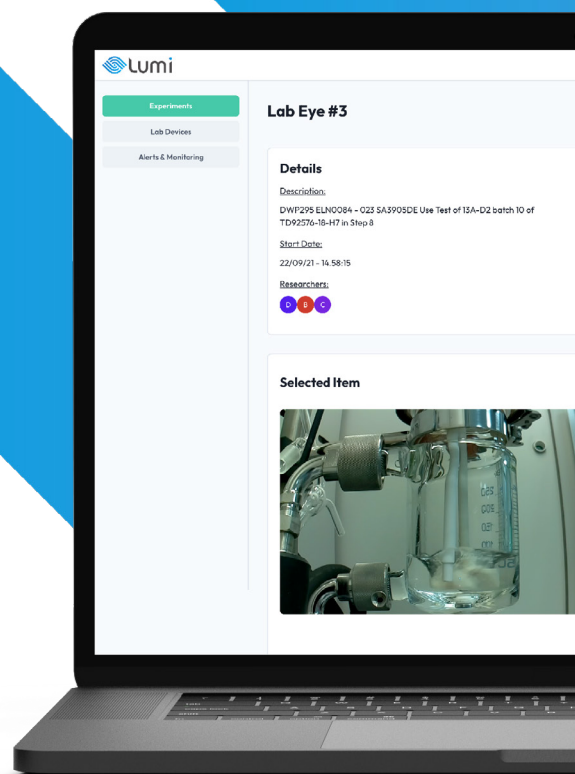
Lumi™ is a software platform accessible via a web browser. Our computer vision element is powered by our LabEye camera module, situated in the lab. It can monitor various types of experiments, including liquids and vessel-based processes, whilst tracking changes such as colour, phase, overflows, and instrumentation readings, with more use cases developing all the time.

Our platform has several features which streamline the reporting, analysis and sharing of experiment data. For example, teams can communicate with peers and their customers through the share function and can group experiment data for reporting purposes. Lumi™ improves collaboration, allowing scientists to share their findings and observations easily.

Features and Benefits

Lumi enables:

- 24/7 hands-free data capture
- Observation recording
- Remote monitoring and live view
- Vision-based alerting system
- Statistical analysis and reporting
- Enhanced understanding of reactions and processes



Lumi monitors:

- Tracking liquid colour and level changes
- Monitoring material state and phase changes
- Overflows and spills
- Statistical analysis of audio-visual activity
- Text detection
- Smart alerts and triggers

Lumi LabEye:

- Attachable or on a stand
- 780p or 1080p vision capability
- Close up or wide-angle lens
- Mains powered
- WiFi & Bluetooth-enabled
- It be placed in the benchtop, fume hood, safety hood or anywhere else in the lab

Lumi platform:

- Hosted on the cloud
- A full-stack, no code solution designed for ease of use
- Hosts live-stream recording
- Intuitive dashboard for monitoring insights
- Access snapshots, lab devices and experiment overviews

Lumi works to:

- Remove mundane work
- Reduce reproducibility errors
- Improve quality and safety control
- Accelerate lab automation
- Reduce R&D costs



About Reach Industries

Reach Industries are the team behind Lumi; a Bristol-based science-tech company, harnessing technology to enhance human potential. We are working to make labs more efficient so they can better and more quickly tackle world challenges. We are an innovative and diverse team made up of engineers and developers with a deep love and respect for science.

Want to know more about how Lumi can work for you, or want a free demo?

Get in touch: contact@lumi.system