euroimmun
From Revvity

Interview - Tobias Röske
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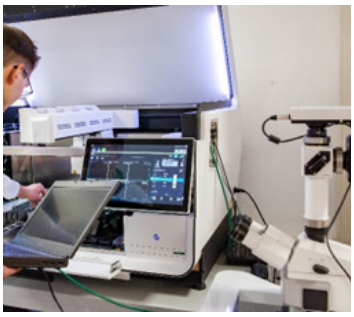
“Precision, Automation, and Data Security – How Euroimmun Defines Modern Diagnostics”

Can you give an example of innovation that demonstrates “German engineering” in diagnostics?



Absolutely. I think our patented laser autofocus system inside the EUROPattern Microscope Live is a true example of German engineering in diagnostics. In simple terms, the laser shines through the fully mounted slide, which consists of several layers – the plastic slide, the biochip with the cell material, the mounting medium, and the cover glass. Each of these layers reflects light differently, and the microscope’s camera can measure these variations in brightness. From that, it determines the exact position of the objective lens and automatically adjusts to the precise focal plane needed for sharp imaging.

This process is so fast that the EUROPattern Microscope Live can capture an image in about two seconds. Another important benefit is that the laser wavelength does not excite the fluorescence dye. That means the substrate is only illuminated at the exact moment the image is taken for digital diagnostics. The result: no bleaching, no degradation of the slides, and consistently high-quality images.

This combination of precision, speed, and preservation of sample quality is, in my view, German engineering at its finest.

Can you explain how our automation systems and EUROPattern solutions help laboratories improve efficiency?

Absolutely. Efficiency in modern laboratories is all about reducing manual workload, ensuring reproducibility, and speeding up turnaround times without compromising quality. Our automation systems, combined with the EUROPattern Microscope solutions, are designed exactly for that.

First, the automation systems integrate sample handling, incubation, washing, and reading into streamlined workflows. This reduces repetitive manual steps, minimizes the risk of error, and frees up valuable staff time for more complex tasks. Especially in labs facing staff shortages, automation helps them handle higher sample volumes with the same personnel and high quality results.

Second, the EUROPattern Microscopes use advanced technologies like our patented laser autofocus to capture high-quality fluorescence images within seconds. These images are analyzed and documented automatically, ensuring consistent interpretation and eliminating variability between operators. The results can be seamlessly transferred into the laboratory's LIS, speeding up reporting.

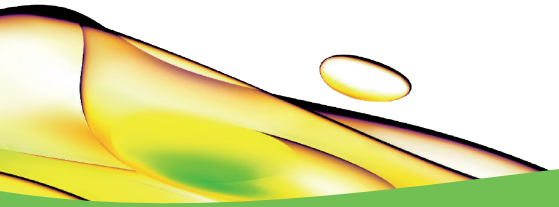
Finally, by linking automation and imaging with EUROLabOffice software solutions, labs gain a centralized digital backbone. This ensures full traceability, easier compliance with regulatory standards, and much faster access to results – all of which significantly improve efficiency and quality. Our automation and microscope systems empower labs to process more samples, deliver results faster, and operate with greater consistency and reliability.

How does Euroimmun ensure the security and confidentiality of sensitive medical data within its automation and EUROPattern systems?

That's an important question – because when we talk about medical diagnostics, we are dealing with highly sensitive patient data that must be protected at all costs.
All our automation systems – both hardware and software – are regulated medical devices under the IVDR. This means that their design, development, and maintenance strictly follow Euroimmun's internal quality processes, which are aligned with international regulations and standards.

Our development teams adhere to frameworks such as the International Medical Device Regulators Forum (IMDRF) Principles and Practices for Medical Device Cybersecurity, the EU In Vitro Diagnostic Regulation (EU 2017/746), the General Data Protection Regulation (EU 2016/679 / GDPR), and the MDCG guidance documents. These ensure that cybersecurity, data integrity, and patient confidentiality are systematically built into the product lifecycle.

The result of these processes is reflected in the CE marking of our products, which certifies that they meet all applicable regulatory and safety requirements.
Euroimmun ensures that both security and confidentiality are not optional add-ons, but fundamental parts of our automation and EPA solutions – embedded by design, validated by regulation, and certified by CE marking.



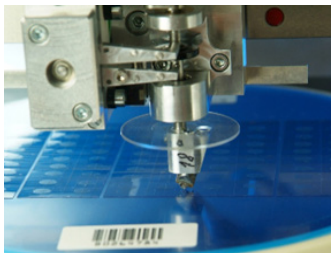
Why is "German reliability" especially important when it comes to safeguarding patient data?

When it comes to patient data, reliability isn't just a nice-to-have – it's absolutely critical. Any failure in data security or system integrity can directly impact patient safety, diagnostic confidence, and trust in the healthcare provider.

"German reliability" is a value that Euroimmun takes very seriously. It means that our systems are designed and manufactured with precision, robustness, and strict quality control. For safeguarding sensitive medical data, this translates into dependable software and hardware solutions that work consistently, even under demanding laboratory conditions.

Our customers know that they can rely on Euroimmun systems not only for accurate diagnostics but also for the continuous protection of patient data. This reliability is deeply linked to our adherence to strict European regulations, validated through CE certification, and our commitment to secure, compliant processes.

How does having local service teams in Europe give Euroimmun an edge over overseas competitors?



Having local service teams across Europe is one of our biggest strengths. Diagnostics is a field where time, accuracy, and trust matter most. When a laboratory experiences an issue – whether it's with automation, software, or an assay – they don't have the luxury to wait for overseas support. With our local teams, we can respond quickly, in the same time zone, often even on the same day.

This proximity means more than just speed: our service staff understand local regulations, languages, and workflows. That ensures smoother installations, better training, and tailored support for each market. Compared to overseas competitors, this local presence reduces downtime, increases customer satisfaction, and builds long-term trust.

Additionally the service of the machines can easily and individually be managed, so that the lab has minimal downtime when it comes to maintenance of the devices by a technician.

Can you share an example where local service and fast response made asignificant difference for a laboratory or hospital?

Yes, I can share an anonymized case from France. One of our customers experienced a complete breakdown of a EUROLabWorkstation IFA due to a power surge. Normally, these systems are protected by an uninterruptible power supply, but in this case the UPS did not activate as expected, and the mainboard was damaged.

Because downtime in such a high-throughput system is critical – we are talking about a workstation that can process up to 700 samples per run – every hour counts. Thanks to our local service setup, we were able to send a replacement mainboard overnight to our field service engineer on site. He installed it the very next day, and the customer was able to resume operations immediately.

This case illustrates why our close proximity and fast response are so important. For a laboratory, the workload doesn't disappear during a downtime. With local teams and strong logistical support, we can minimize disruption, protect patient testing workflows, and deliver the kind of reliability that our customers expect from Euroimmun.

Meta Description
Euroimmun develops innovative automation systems and EUROPattern microscopes that enhance laboratory efficiency, ensure data security, and provide reliable diagnostics. Tobias Röske explains how German engineering enables the combination of precision, speed, and digital integration in the daily work of laboratories.

Keywords

- Euroimmun
- Made in Germany
- laboratory automation
- EUROPattern microscopes
- immunofluorescence diagnostics
- German engineering