Hamamatsu Photonics Europe and Coher Sense collaborate to simplify laser measurement

Combining photonics expertise and plug-and-play instrumentation to enable faster, more accessible laser characterization

News provided by:

Hamamatsu Photonics Europe
April 13, 2026
Contact us

This partnership focuses on enabling faster, more accessible laser characterization for research and industrial applications through a compact, plug-and-play sensor solution. Originating from Coher Sense's recognition in Hamamatsu's *Photonics Innovation Awards*, the collaboration brings together complementary expertise to support more efficient and practical laser measurement.

Photo: ©Hamamatsu Photonics: Oliver Lischtschenko, Founder, Coher Sense, shaking hands with Christoph Seibel, Group Leader Sales Components at Hamamatsu Photonics, at the Photonics Innovation Awards.

Addressing a practical challenge in laser measurement

Measuring the laser properties remains a complex task. Despite decades of development since the invention of the laser, key parameters such as linewidth are still subject to multiple definitions and interpretation. In practice, accurately characterizing laser behavior often requires expensive and complex instrumentation, limiting accessibility and slowing adoption in both research and industrial environments.

Hamamatsu Photonics is committed to supporting innovation in photonics and enabling practical solutions for real-world applications. In this context, the company is collaborating with Coher Sense, a technology company specializing in advanced fiber-optic sensors for laser measurement and analysis, to support the adoption of a new generation of compact, user-friendly laser diagnostics.

From Innovation Awards to collaboration

This collaboration originated through the Photonics Innovation Awards, where Coher Sense was recognized as a winner in the Advanced Feasibility category for its compact laser multimeter, a novel product that simplifies the measurement of key laser parameters.
The award highlighted the system's technical maturity, practical relevance, and readiness for real-world deployment, creating a natural opportunity to explore further collaboration with Hamamatsu Photonics Europe.

A compact, all-in-one laser measurement solution

At the center of this collaboration is Coher Sense's compact sensor (KISA), a plug-and-play device capable of measuring key laser parameters such as wavelength, power, and bandwidth within a single system. By consolidating multiple measurement functions into one instrument, the solution enables users to:

- Reduce setup complexity
- Accelerate measurement processes
- Obtain reliable laser data without extensive training

This approach directly responds to the growing need for efficient and accessible photonics instrumentation in both research and industrial environments.

Photo: ©Coher Sense

Expanding application potential together

Through this collaboration, Hamamatsu Photonics Europe brings its expertise in photonic components and measurement technologies to support broader application integration and visibility of the solution. This includes integration with Hamamatsu detection technologies, particularly in spectroscopy applications where reliable laser characterization is essential for accurate measurement.

Together, the two companies aim to:

- Demonstrate practical use cases in spectroscopy and laser-based analysis
- Support customers in selecting and integrating complementary photonic technologies
- Expand access to simplified measurement tools across emerging application areas

Showcasing at Analytica 2026

The collaboration was highlighted at Analytica 2026, where both companies showcased how compact, integrated measurement solutions can improve laboratory efficiency and experimental reliability.

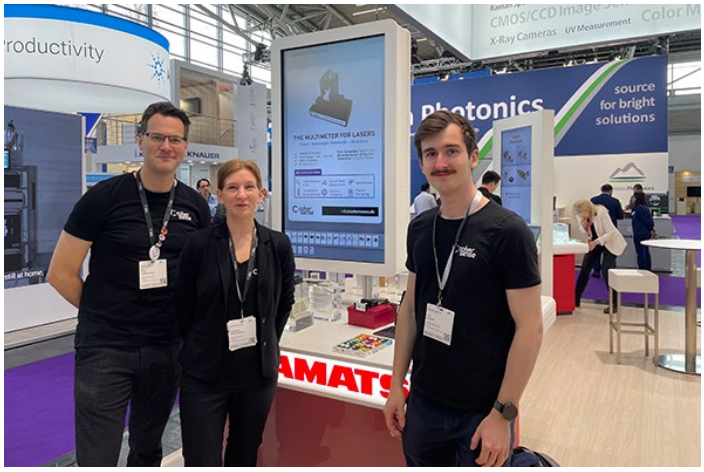

Photo: ©Coher Sense, Oliver Lischtschenko, Katarzyna Szykula-Meurs and Till Jensen at Analytica 2026.

“Our compact sensor is already designed for plug-and-play use in real laboratory environments. Through collaboration with Hamamatsu Europe, we see strong potential to further expand its applications and reach new users.”

— Oliver Lischtschenko, Founder, Coher Sense

“At Hamamatsu, we believe in the power of the light and in our role to support society. This is the inspiration behind the Hamamatsu Photonics Award. The Coher Sense project particularly impressed us, as we believe this instrument is essential for optical characterization, combining high precision with ease of use. At our booth, we demonstrated how important it is to understand the properties of the incident light, even when it comes from an integrated module, especially in complex applications as Raman spectroscopy.”

— Luigi Ghezzi, Technology and Market Expert Europe

Looking ahead

This collaboration reflects a shared commitment to making photonics technologies more practical, accessible, and aligned with real-world laboratory needs, supporting users from research to industrial implementation.