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Bioident platform enables disposable lab-on-a-chip

By Staff

Bioident Technologies, a developer of printed semiconductor-based photonic lab-on-a-chip solutions for life sciences, has launched the PhotonicLab Platform, which combines printed organic semiconductor-based optoelectronics with microfluidics to create disposable lab-on-a-chip systems.

According to the company, the Bioident Platform uses organic semiconductor-based technology to print light emitting and detecting capabilities directly on to any surface, including polymers and glass, enabling on-chip detection and analysis capabilities, thereby removing one of the biggest obstacles in the wide-spread adoption of microfluidic applications. By combining printed optoelectronics with microfluidics, Bioident says it can deliver lab-on-a-chip systems that can conduct multiple tests simultaneously and at the point of use for real-time analysis. These capabilities should enable new applications in analytics, bio/chemical defense, and medical diagnostics markets.

"Bioident's Platform is poised to revolutionize water and food analysis, chemical and biological agent detection and in-vitro diagnostics," said Wasiq Bokhari, CEO for Bioident, a subsidiary of Nanoident Technologies AG. "Imagine: instead of waiting for days for water or blood test results from a lab, we can have multi-parameter results immediately, at the point of use."