

PRESS RELEASE

Integrating Process Data into Additive Manufacturing

SCANLAB scanner control technology utilizes external sensors

Puchheim, Germany – November 14, 2019 – At Frankfurt Germany's formnext 2019, high-quality laser scan solution manufacturer SCANLAB GmbH is unveiling a scan system control extension using a smart data-acquisition interface that reads diverse sensors. This underscores the company's process sensor expertise. Additive manufacturing users will gain significant advantages from the ability to uniformly query and evaluate centralized process data.



Industrial manufacturing's requirements are rising relentlessly. An increasingly vital criterion for quality control and product traceability is the precise acquisition and monitoring of measurement data during production processes. But users often face daunting challenges from the differing data formats, countless interfaces and inadequate real-time synchronization. For 3D printing, SCANLAB is

presenting the 'Open Interface Extension' at formnext 2019. This functional model of an intelligent interface is capable of integrating sensor data into scan system control. Two tradeshow demonstrators will reveal just how diverse the range of integrable sensors can be.

One configuration incorporates a surface-temperature pyrometer into scan head control. In this setup, a fast-sampling sensor system's data merges with absolutely precise laser beam position data, while all field and objective corrections get taken into account. The laser's power is modulated in parallel with real-time scan motion, too, thus opening up future process control possibilities.

A second application integrates an OCT (optical coherence tomography) sensor from Precitec that measures the surface topography of a powder bed or workpieces. The sensor data's high complexity requires direct interaction with the scan system. Both companies' years of close collaboration proved invaluable in implementing this project. It lays the foundation for future customer-specific solutions that integrate sensor data with synchronized scanner motion.

Print-quality images can be downloaded at
<https://www.scanlab.de/en/news-events/image-library>

Current Tradeshow Calendar:

formnext 2019 from November 19 – 22, 2019 in Frankfurt, Germany **Hall 12.0 – Booth B41.**

About SCANLAB:

With over 35,000 systems produced annually, SCANLAB GmbH is the world-leading and independent OEM manufacturer of scan solutions for deflecting and positioning laser beams in three dimensions. Its exceptionally fast and precise high-performance galvanometer scanners, scan heads and scan systems find application in industrial materials processing and the electronics, food and beverage industries, as well as biotech and medical technology. For over 25 years, SCANLAB has secured its international technology leadership through pioneering developments in electronics, mechanics, optics and software, as well as the highest quality standards.

Press Contact:

SCANLAB GmbH
Ms. Eva Jubitz
Siemensstr. 2a
82178 Puchheim, Germany

Phone	+49 89 800 746-0
Fax	+49 89 800 746-199
Email	presse@scanlab.de
Internet	www.scanlab.de