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Sigma Labs Launches PrintRite3D Production Series

New Production Dashboard and AI Driven Metrics Provide Critical Real-time Information as 3D Printing Alternatives Accelerate Due to Worldwide Crisis

SANTA FE, NM / ACCESSWIRE / March 31, 2020 /Sigma Labs, Inc. (NASDAQ:SGLB), a leading developer of quality assurance software for the commercial 3D printing industry, has launched Printrite3D® Production Series that introduces the 'Production Dashboard' and provides production managers with critical metrics, insight and actionable information during the production process. This launch comes at a time when many predict that the use of 3D printing of metal parts will increase dramatically in response to COVID-19 and the effect of the pandemic on U.S. manufacturing, especially with manufacturers that rely on complex and lengthy supply chains.

3D printing is more agile and rapid in development and execution than traditional manufacturing methods and can be performed proximate to where the end product is needed, making it much more responsive in times of crisis. PrintRite3D® Production Series enhances this speed and agility by truncating the design and development process and accelerating the 3D manufacturing machine qualification and has the added advantage to remotely monitor production in real-time from anywhere in the world.

"Sigma Labs has a rich history of innovation," said Mark K. Ruport, Executive Chairman of Sigma Labs. "PrintRite3D® Production Series is the culmination of years of internal research and development and radical collaboration with our customers. We believe it will be seen as a major advancement for the additive manufacturing industry just as 3D printing of metal parts will be tested and challenged to fulfill the promise of being the next revolution in manufacturing."

Sigma's technology is unique in that it is machine agnostic and runs on most major brands of 3D metal printers. This allows for standardized quality assurance processes, even throughout a supply chain using 3D printers from different manufacturers. PrintRite3D® Production Series, which will be available in April, introduces an intuitive dashboard that provides in-process quality metrics and actionable information to production managers during the production process including:

- **Automated In-process Quality Metric (IPQM®) based alerts**, which allow production managers to use custom metric thresholding for part and process quality decision making. In real time, the process engineer can know that the process was in control and the production manager can know the part yield predictive performance, ensuring maximum efficiency of the manufacturing process.

- **IPQM®** trained with machine learning algorithms using micro CT-based on standard

additive defects, can identify and classify known porosity modes such as, Lack of Fusion, Key Hole, Spherical Porosity and Foreign Inclusions. The process engineer can begin to qualify and certify the IPQM^p as a proxy for micro CT, thereby reducing the post process measurement burden, and in real time monitor the predictive defect modes.

- **High resolution IPQM® "medical grade" forensic analysis in 3D** for process engineering part anomaly investigation, provides a level of granularity during the build process that until now was unattainable. Using the Production Dashboard, the process engineer can begin continuous process improvement by virtue of forming a deeper understanding of the nature of 3D anomalous IPQM signature morphologies.

- **PrintRite3D® Production Series can be utilized** remotely by production managers and operators to monitor, analyze and intervene in real time production as required from any location around the globe.

"Bringing Sigma's technology down to the manufacturing floor to be used by production managers to monitor the 3D printing process is a major step forward for the AM industry," commented Dr. Prveen Bidare, Technical Research Officer in Hybrid Manufacturing at the University of Birmingham. "PrintRite3D® Production Series addresses one of the critical barriers of the industrialization of additive manufacturing and puts highly sophisticated tools in the hands of the printer operators. Additionally, the fact that Sigma's technology can be used today on 3D printers from multiple manufacturers to provide a consistent standard of quality assurance, allows manufacturers to deploy the technology throughout their supply chain."

About Sigma Labs

Sigma Labs, Inc. (NASDAQ: SGLB) is a leading provider of quality assurance software to the commercial 3D printing industry under the PrintRite3D® brand. Founded in 2010, Sigma is a software company that specializes in the development and commercialization of real-time computer aided inspection (CAI) solutions known as PrintRite3D® for 3D advanced manufacturing technologies. Sigma Labs' advanced computer-aided software product revolutionizes commercial additive manufacturing, enabling non-destructive quality assurance mid-production, uniquely allowing errors to be corrected in real-time. For more information, please visit www.sigmalabsinc.com.

Forward-Looking Statements

This press release contains "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended (which Sections were adopted as part of the Private Securities Litigation Reform Act of 1995). Statements preceded by, followed by or that otherwise include the words "believe," "anticipate," "estimate," "expect," "intend," "plan," "project," "prospects," "outlook," and similar words or expressions, or future or conditional verbs such as "will," "should," "would," "may," and "could" are generally forward-looking in nature and not historical facts. These forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause the Company's actual results, performance or achievements to be materially different from any anticipated results, performance or achievements. The Company disclaims any intention to, and undertakes no obligation to,

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