



## PrintRite3D° - Leading Quality Innovation

Don't just look for defects or discover them after it's too late. Get notified, analyze and adjust the machine process in real time. Only PrintRite3D® from Sigma Labs enables all that.

- Real-time melt pool thermal quality monitoring and notification
- Thermal signature anomaly detection and automatic risk-level classification
- Statistical process sampling and advanced analytics

Save valuable time and money by improving

machine process consistency, reducing (even eliminating) the need for destructive CT testing or inconsistent scans of complex parts.

Achieve high confidence in a repeatable manufacturing process and build integrity. Quality at scale, that's what we do.

- Lower additive manufacturing costs, improve yield and profit margin
- Trusted, independent third-party QA
- Plant-wide machine retrofit or OEM integrated install



## PrintRite3D® **Product Specifications** Resolution 100 micron 200 kilohertz **Speed** 300 - 1000 nanometer Wavelength Data File Size (filtered) Average 10 megabytes per layer **Data Processing Time** Average 20 seconds per layer **Data Processing Rate** Interlayer **Server Performance** 10 terabyte multi-core 2u w/ co-processor **Host Machine Connections** Laser power, laser drive, XY protocol 200 x 200 x 150 mm **Sensor Array Dimensions HMI Server Cabinet Dimensions** 580 x 580 x 810 mm

## Why PrintRite 30°?

With additive manufacturing, it's the small things (you can't see) that add up to big, expensive problems. PrintRite3D® allows additive manufacturers to identify and fix machine inconsistencies to optimize quality and save time and money.

All in real time. During the 3D manufacturing process.

Sigma Labs' proprietary PrintRite3D® solution uses thermal signature properties from the melt pool to detect and identify anomalies. With PrintRite3D® you know with assurance you have produced high-quality parts. Consistently. Each and every time.

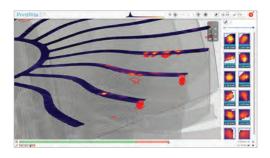
Gain confidence in your process repeatability from one build to the next. Detect potential part anomalies without costly CT scans.

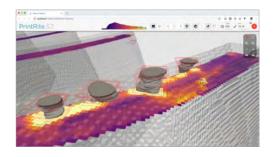
PrintRite3D® is the quality control solution for precision metal parts.

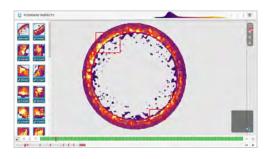
Visit SigmaLabsInc.com for a demo.















What happens when you combine leading experts from many different science disciplines—Metallurgy, Physics, Signal Processing, Mechanical Engineering, Optics, Software AI and ML, Data Analytics and Visualization—into a single product?

You get the most accurate, comprehensive and reliable quality assurance solution for additive manufacturing of precision metal parts.

## PrintRite3D®

Engineered, manufactured and qualified for use in highly demanding production environments within aerospace, defense, automobile, oil and gas, and other industries.

Visit SigmaLabsInc.com or contact sales@sigmalabsinc.com to learn more.



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