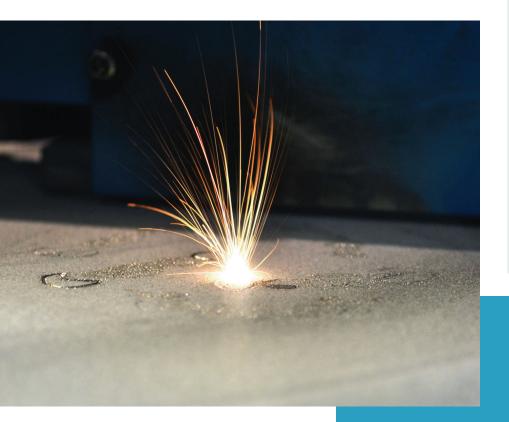
## **PrintRite3D® Version 7.0**

Interactive in-process quality assurance solution for the commercial and industrial Additive Metal sector.

PrintRite3D provides data collection, inspection, feedback, and critical analysis in a platform-agnostic solution that can be installed as a retrofit to an existing machine and/or as a factory option from OEM suppliers. The system quickly discovers anomalies and combines machine learning alongside tried-and-true metrics reducing the need for, and the cost of, post-production QA testing—all while enabling a regulatory framework for compliance & traceability.

# PrintRite3D has been known for years as the standard for AM quality, providing users with features like:

- Independent Third Party Quality Assurance
- > Real-Time Monitoring, Alerts and Reporting
- > Calibrated Meltpool Temperature Measurement
- Meltpool Cooling Rate Measurement
- Advanced Data Analytics, TED + TEP Quality Metrics



### **Key New Features**

Temperature Monitoring and Calibration: now includes a cooling rate enabling classification of crystalline structures and Celsius and Kelvin conversion.

#### **Recoater Interaction Detection:**

provides greater diagnostic accuracy and faster than visual methods.

Machine Learning: customizes the detection toolkit by defining anomaly signatures that are unique to user machines, parts and builds scenarios. Alert operators when an occurrence frequency exceeds established thresholds.

Predictive Modeling: import 'as-built' conditions into analysis software to determine the effects of anomalies on part performance; a key step in establishing a "digital twin".

**Multi-Laser:** gain confidence in large builds by verifying weld integrity and metal quality in areas where lasers interact.

**User Roles and Log In:** control access to sensitive data and maintain traceability of actions for regulatory compliance.

Multiple Viewing Modes: statistical charts, 2D Layers, 3D Volume, and now introducing Multi-Axis view enabling XYZ views for advanced analysis of vertical x-sections.

### Request a Demo

SigmaLabsInc.com sales@sigmalabs.com 505-438-2576

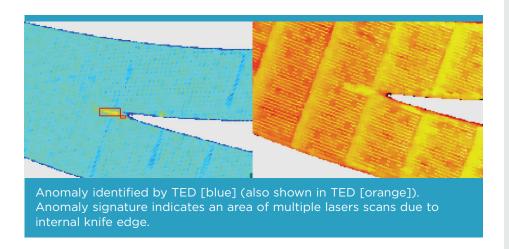


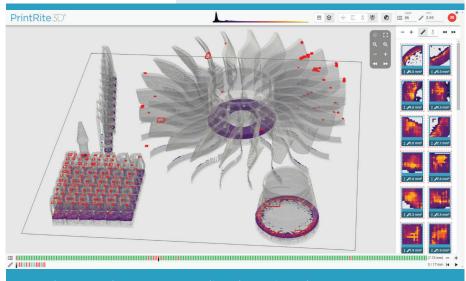
#### **Benefits of PrintRite3D® 7.0**

Our objective is to provide Sigma Labs' end users and OEMs with trust in the ability to build quality parts and realize the promise of metal additive manufacturing.

## Along with the benefits of earlier versions of PrintRite3D, users now receive:

- Actionable knowledge of what is occurring inside your machine during the build process
- Increased productivity with higher throughput and process consistency
- A significant step toward the promises of Industry 4.0 with machine learning and predictive modeling
- Reduced risk of part failure with build quality by design (QBD) modeling
- Save costs and time on your parts and production runs—eliminate time and money spent on corrective post processes





#### 3D Volume Workspace - Anomalies shown in red.

### **About Sigma Labs Inc.**

Sigma Labs Inc. is a leading provider of In-Process Quality Assurance (IPQA®) software to the additive manufacturing industry, specializing in the development and commercialization of PrintRite3D®, a real-time monitoring solution for metal additive manufacturing technologies.



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