

**From “3D scans” to AI-ready vessel intelligence —
LaCam® is turning refractory inspection into a data + AI advantage.**

Steelmaking is entering a phase where AI-performance is increasingly determined not just by model size or maturity but by data quality input and modality richness.

That’s why we built LaCam® around high-density, multimodal data generation, making it ideal for real-world industrial inspection.

What’s new (and why it matters for AI):

- LaCam®’s **immersion measurement strategy** captures 100% of vessel surfaces, including hard-to-see slag zones.
- **Ultra-high-resolution scanning** enables datasets of up to 23 million points in 24 seconds, providing the scale required for reliable image/3D learning and anomaly detection.
- By capturing three values per point- **distance, absorption/reflection**, and absolute **temperature** - LaCam® turns geometry into multimodal “inspection truth” for e.g. crack/gap detection and vessel condition understanding.

LaCam® is about more than measurement. It’s about making AI in steel production practical, reliable, and scalable.

#Steelmaking #Digitalization #IndustrialAI #LaCam #MINTEQ

Wall plot, the colors show the temperature of the wall.

Z-axis magnified by factor 4 for wear.

Wall plot, the colors show the wear by traffic light

Z-axis magnified by factor 4 for wear.

