

LaCam® Technology – Data Generation Beyond Just Geometry

True vessel intelligence starts with the right data.

LaCam® goes far beyond conventional 3D laser scanning by generating three **complementary data values** for every single measured point: distance (geometry), surface absorption/reflection, and absolute temperature.

By combining high-resolution laser point-cloud data with a two-color pyrometer, LaCam® 3D software creates a realistic 3D visualization that closely resembles how the human eye perceives a vessel but enriched with quantitative thermal and surface information.

This enables:

- Precise analysis of surface condition and wear
- Detailed temperature distribution across the vessel
- Detection of structural irregularities, cracks, gaps, and hotspots
- Reliable differentiation between geometry effects and thermal effects

With its multi-layered data set, LaCam® turns measurement into actionable insights, laying the foundation for **advanced diagnostics, digital twins, and AI-based** analysis in steelmaking operations.

#Steelmaking #Digitalization #IndustrialAI #LaCam #MINTEQ

