LSY30

New Discoveries begin with LAT™

Create, analyze, quantify, segment and digitally dissect
3D models of virtually any material.

Laser Ablation Tomography (LATscan™)

is a new technology that enables higher speed, resolution, and quality than any other state-of-the-art tomography technology. Super high-resolution three-dimensional data can be rapidly acquired to create full-color digital models that can be segmented, quantified, and analyzed. Compositional information can be collected to robustly map the internal and external structure with unprecedented precision. The model data can be used to perform physics simulations, allowing researchers to gain deeper insights into the fundamental mechanisms at play in their specimens.

Equipment Capabilities:

- High Throughput
- Sub-Micron Image Resolution
- Natural Color
- Structural Accuracy
- 3D Imaging
- Volumetric Analysis
- User-defined Segmentation
- Component quantification
- Data Export for Computational Modeling and Analysis
- And Much More

LATSCAN
3D imaging technology

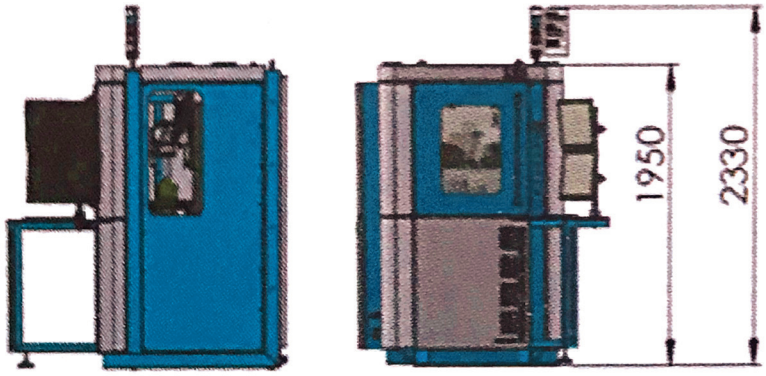
LSY30

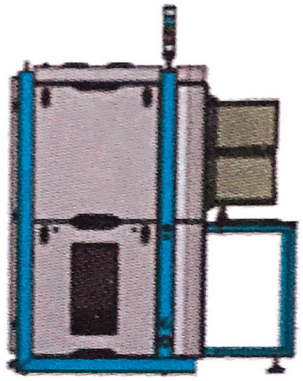
Applications

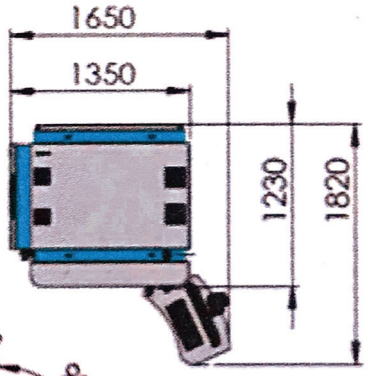
- AGRICULTURAL
  Plants, pests, interactions thereof, soil
- GEO-CHEMICAL
  Porosity, permeability, organic content
- MATERIALS SCIENCE
  Synthetic failure analysis, composites
- BIOMEDICAL

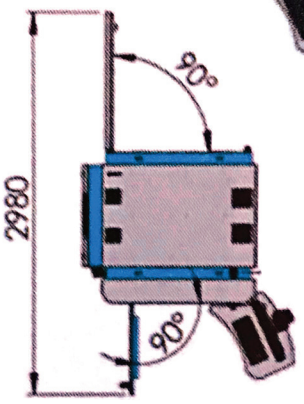
Features

- Geometric and Micro Anatomic Structure Visualization
- Compositional Visualization
- Morphometric Analysis
- Spectral Fluorescent Imaging
- Tomographic Models & Animations
- Sub-Micron Resolution
- Wide Range of Scales: < 1 mm to 25 mm









Main specifications	
MACHINE	LATscan™ LSY30
Mechanical axis	Z(200 mm)
Scanner	High-speed X/Y scanner
Stage travel	300 x 300 mm x/y
Software	LATware™ 3D
Vision	Visualization, positioning, and imaging camera
Assistance for laser focus	Dual laser guide
Table	Marble
Door	Automatic
Options	
ULTRA-FAST LASER SOURCE	
Picosecond	15-120W
OTHER	
Automation	LAT-HMI (Automatic sample sequence)
Autofocus	Laser distance sensor
Door	Automatic
Accessories	Power meter, fume extractor, interlock / safety system
Dimensions	
Width x Depth x Height	1350 x 2280 x 1950 mm

LATscan.com

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