Scanning Acoustic Microscope MINI



AcouLab

New Generation Acoustic Solution

SAM-MINI

Ultrasonic Pulser/Receiver

- Frequency Range 1 - 500MHz
- PRF(Pulse Repetition Frequency): Upto 50KHz

A/D Converter

- Real time 1GHz Sampling Rate

Industrial Computer for Ultrasonic System

- OS : Windows 11
- Monitor : 32"

Mechanical Scanner

- Scan Axis (Linear servo motor)
  Max. Speed 750mm/s
  Repeatability +/-2 micron
  Encoder Resolution 0.5micron

- Index Axis
  Micro-stepping motor with lead screw
  Step Resolution 5micron

- Vertical Axis
  Micro-stepping motor with lead screw
  Max. Stroke 80mm
  Vertical Resolution 2.5micron



- C- Scanning Area with T-Scan : 350mm x 170mm

- Main Unit SIZE : 740mm X 720mm X 1,230mm

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SAM-MINI

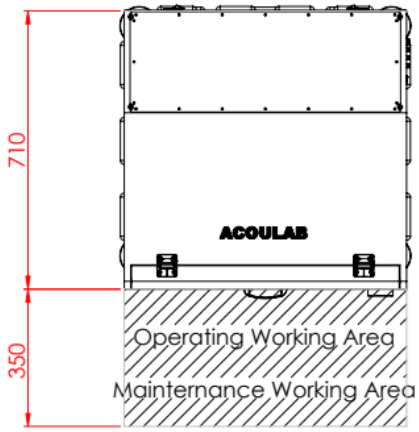
Immersion Tank

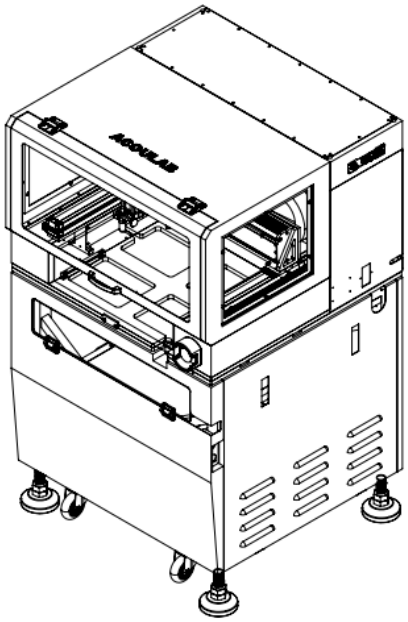
- Dimension : 430mm x 410mm x 90mm
- Material : Acryl

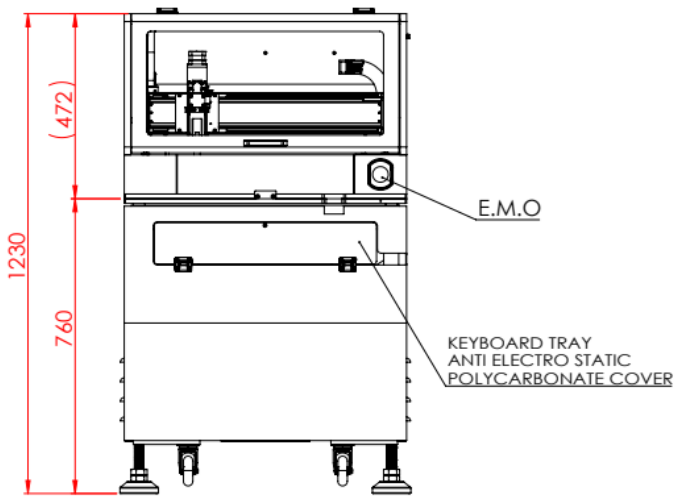
General

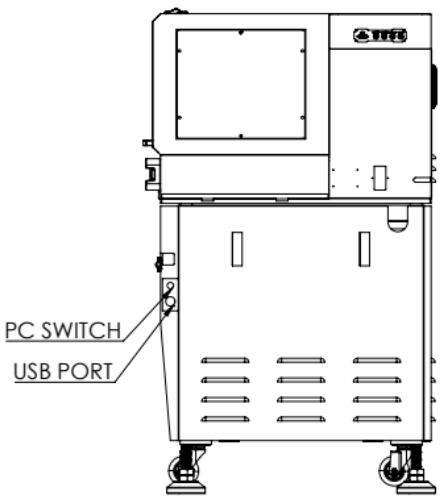
- Weight : Approx. 150kg
- Electric Power : AC220V / 15A

Lay-out







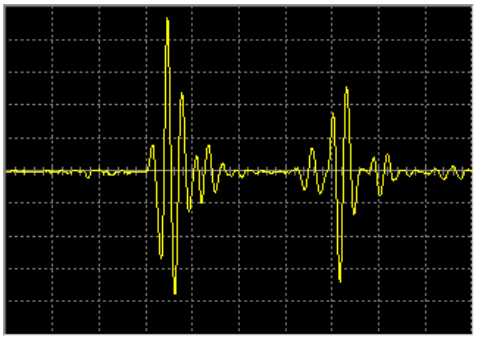


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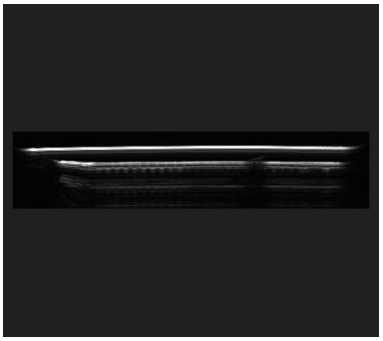
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ScanUp Software

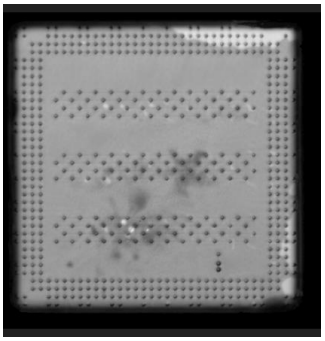
- Windows 11 base software for system control and image analysis Automatic and manual setup.
- Automatic focusing, Auto-sizing & Auto-gate.
- Pulse echo and thru transmission modes of operations.
- A, B, C-Scan, FFT-Scan TOF-3D and Virtual 3D display.
- C-Scan image for amplitude, time of flight and phase inversion FFT for transducer evaluation.
- Size measurement of defects and delamination.
- Automatic report generation.
- Simultaneous Pulse Echo and Thru Scan inspection. (Optional)



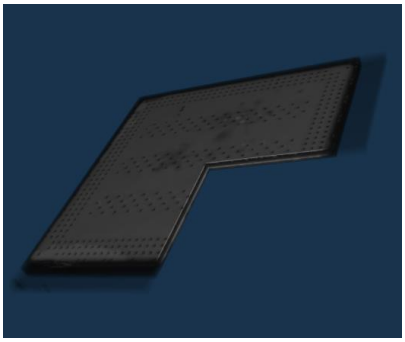
A-Scan



B-Scan



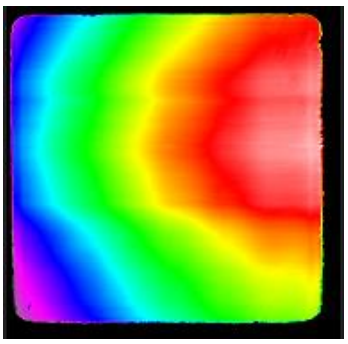
C-Scan



Virtual 3D



TOF 3D



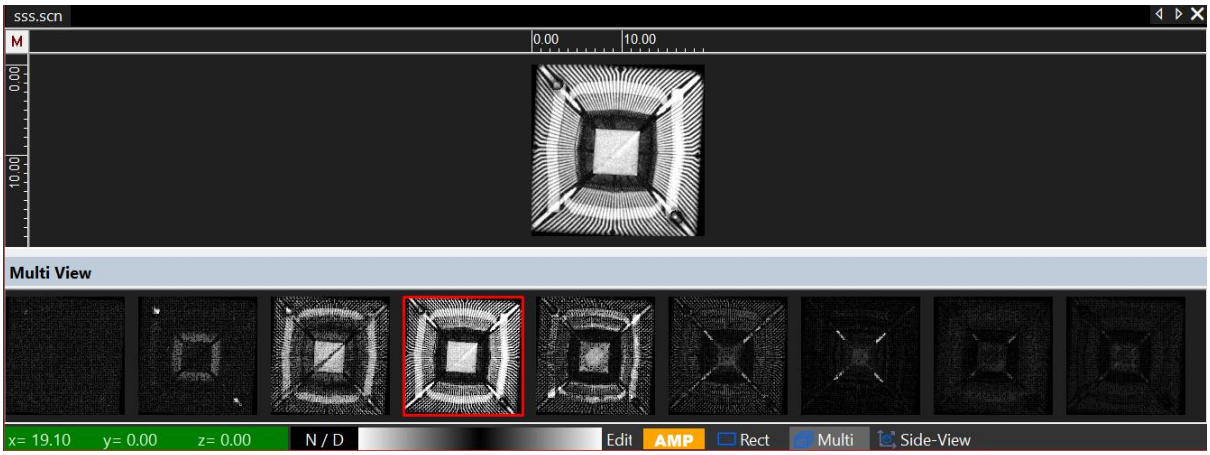
Surface

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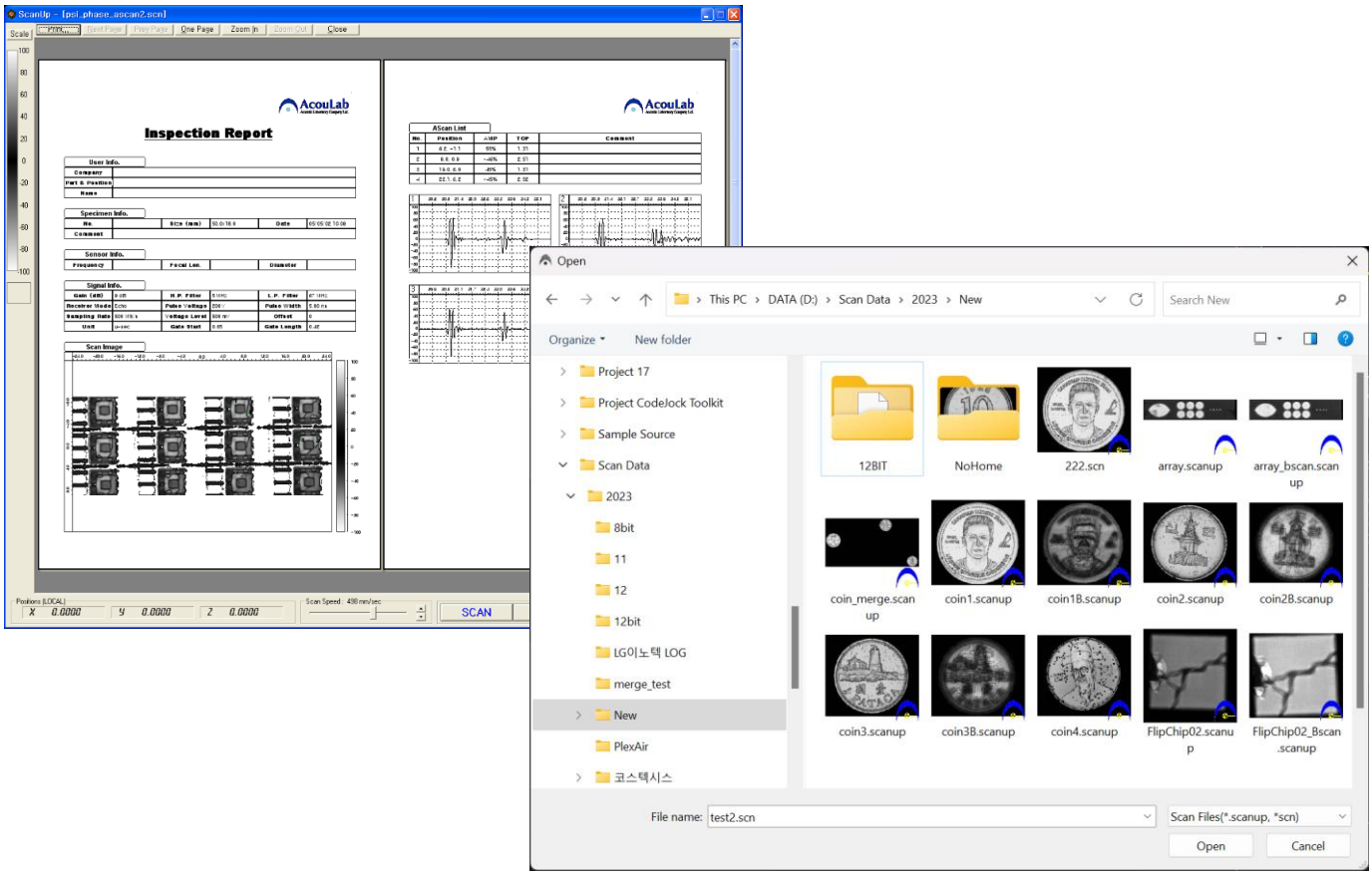
ScanUp Software

- Multi-Layer Scan (Upto 99 layers), Tray Scan and Specific Area Scan.



- Inspection Report.
  A function for pre-entering information required when creating an inspection report, for preview and printer output.

- Preview
  Can preview the inspected image through Windows Explorer.



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