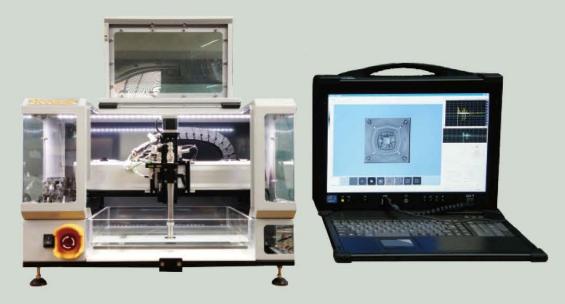


Features

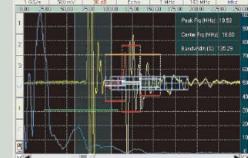
The AcouLab SAM-MINI™ is designed for the compact bench-top Scanning Acoustic Microscope and the valuable price with high performance for the manufacture of integrated circuits(IC's) packages.

AcouLab SAM-MINI™ is the smallest size of Acoulab-SAM series, but it's enough size to inspect JEDEC Tray with Pulse/Echo or Thru-Scan mode. The frequency bandwidth is up to 50MHz, it's not enough to inspect all of modern IC's packages. But SAM MINI™ has enough frequency bandwidth to inspect the most of IC's packages with EMC.

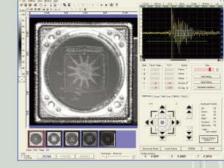
- · Low Cost Bench Top System
- · Scanning Area: 350mm X 180mm X 80mm for JEDEC Tray
- · High Speed with high resolution system
- · Fully S/W control
- · Bandwidth : up to 75MHz



Fully Opened Door with PC

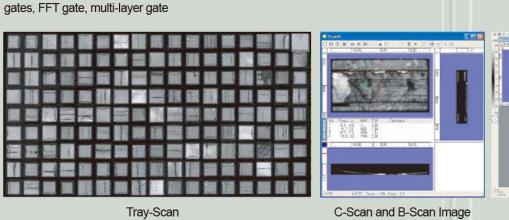


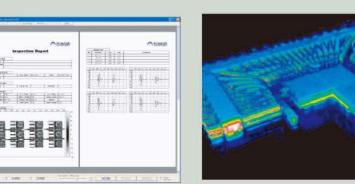
3 data gates with independent phased detector

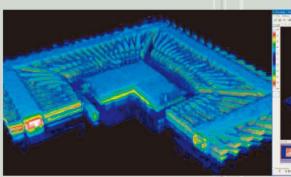


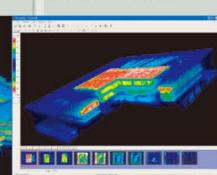
Void in IC Chip







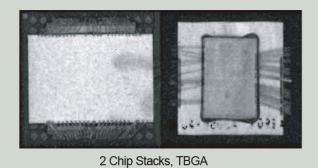




Measurement of Delamination

Multi-Layer Scan with Virtual 3D

Applications



Powerful inspection report

Micro Crack on Stack Die

C-Scan T-Scan



Power, FET

Specifications

Ultrasonic Pulser/Receiver

- · Frequency Range 1 50MHz · Gain:0-80dB, step:1dB
- · Pulse voltage: 100 475V

A/D Converter

· Real time 500MS/s Sampling Rate, 8bits

Scan Axis

- · Linear servo motor
- · Max. Speed 750mm/s
- · Repeatability +/- 1 micron
- · Encoder Resolution 1 micron

Index Axis

- · Micro-stepping motor with lead screw
- . Step Resolution 1 micron

Vertical Axis

- · Max. Stroke 100mm · Vertical Resolution 1 micron
- Scanning Area • W350 \times D180 \times H100 mm for Jedec tray

Immersion Tank • Dimension W430 x D410 x H90mm

General

- Enclosure Dimension W720 x D715 x H425mm
- Weight 35kg 220ACV, 1Phase, 15A

ScanUp and Scan Analysis Software

- · Windows 7 base software for system control and image analysis · Automatic and manual setup
- · Automatic sizing and focusing
- · Pulse echo and thru transmission modes of operations
- · A, B, C-Scan, FFT-Scan, TOF 3D and Virtual 3D display
- · Multi-Layer Scan (Upto 20 Layers), Tray Scan, Strip Scan and Specific Area Scan
- · C-Scan image for amplitude, time of flight and phase inversion
- FFT for transducer evaluation
- · Size measurement of defects and delamination
- · Automatic report generation
- Max. image resolution : upto 10,000 X 10,000 pixels
- · 24 bit pseudo color and gray scale display
- · Digital oscilloscope.

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- · Real-time on-screen display
- · Parameter file libraries for easy set-up and recall.
- · Amplitude cross-sectional display.
- · Digital waveform overlay.
- · Distance and thickness measurements on-screen.

8, Sudo-ro 55beon-gil, Ojeong-gu, Bucheon-si, Gyeonggi-do, Korea Zip-Code. 421-810 Tel. 82-32-676-8077~8 Fax. 82-32-676-8079

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Scanning Acoustic Microscope



SAM-MINI

