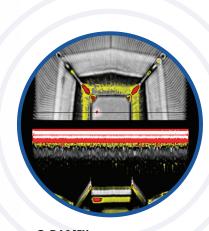


D-9500™

The Contemporary Standard for Acoustic Microscopes





Q-BAMTMQuantitative B-Scan Analysis Mode delivers a "Virtual Cross-section" of the sample.

Maximum Flexibility for Detailed Inspections

The D-9500 is the contemporary AMI powerhouse that delivers unmatched accuracy and robustness, which is ideal for failure analysis, process development, material characterization and low volume production.



Features

- Time Domain Imaging (TDI)™
- Balanced Linear Scanner
- Larger Maximum Scan Area, While Maintaining Accuracy
- More Accessibility to Samples
- Multi-Language OS and Visual Acoustics™ Interface
- Digital Image Analysis (DIA)™ Optional
- Waterfall Transducer[™] Optional
- Temperature Control Options
- Applications Set-up Wizard™
- Quantitative B-Scan Analysis Mode (Q-BAM)™



Enhanced Scan PlatformOpen access, improved lighting and large area capacity.



C-SAM® D9500 Series

C-Mode Scanning Acoustic Microscope

Specifications

Available Inspection Modes

- Time Domain Pulse-Echo Modes include; A-Scan, B-Scan, C-Scan, Bulk Scan and Loss of Back Echo (LOBE)
- THRU-Scan™ (Through transmission imaging) Available up to 100 MHz in fixed field and large area scan formats
- STAR™ (Simultaneous Thru-Scan™ and Refection) allows both image types to be obtained with one scan
- Q-BAM™ (Quantitative B-Scan Analysis Mode) for virtual cross sectioning, while maintaining amplitude and polarity data
- ◆ Zip Slice™ & 3V™ for automated multifocus tomographic image acquisition of up to 200 C-Mode images with digital reconstruction into an Acoustic Solid™ for Virtual Volumetric Viewing (3V™)
- Tray-Scan™ for automated data collection & analysis per accept/reject criteria of components in JEDEC style travs
- C-SAM Interactive[™] provides internal interactive help function for user applications support

Operating System

- Visual Acoustics[™] for Windows[®] XP Pro
- ♦ Multi-Language Operation
 - ◆ English, Japanese & Trad. Chinese

MCU (Master Control Unit)

- CPU Intel[®] Pentium[®] IV 2.8 MHz
- ♦ 1 GB RAM Memory
- 250 GB HDD
- ♦ DVD Writer with CD-R/RW Capability
- ♦ 10/100 LAN Card & 56K Modem
- ♦ 17" Flat Panel Monitors (2)

(Note: Computer configurations change as systems and specifications are updated)

Mechanical System

- Very High Speed Large Area Access Scanner (333 x 312 mm) (13.1 x 12.3 inches)
- Repeatability x-y-z axis standard ± 0.5 microns
- Digital Servo High Speed Scanner Control with a linear bearing for the fastest image acquisition time
- Inertially Balanced, Vibration Free Scanning Mechanism (U.S. Patent 4,781,067)
- Up to 67 megapixels (8K) Very High Res[™] (VHR) enhanced scanning and data acquisition format with zoom enlargement (4 megapixels (2K) standard)
- Survey Mode™ Selectable pitch data acquisition to reduce scan times by 2 to 4X

Electronic System

- ◆ 500 MHz Bandwidth Pulser/Receiver for transducers up to 300 MHz
- Transducers available from 5 to 300 MHz
- Digital gating selectable in 0.25 nsec steps
- Acoustic Impedance Polarity Detector (AIPD™) (Ref. U.S. Patent 4,866,986) simultaneously displays both polarity (i.e., phase) and amplitude information
- 95 dB Gain selectable in 0.5 dB steps
- Dual Channel Digital Waveform Card for A-Scan data display and capture

Facility Requirements

- 115V to 240V AC, single phase, 50/60 Hz
- ♦ 15 amps maximum current
- Select L 72" x W 30" x H 60" or ergonomic wrap-around footprint

Standard Features

- Expanded sample accessibility and visibility with extra lighting (> 200 Lux)
- Application Set-up Wizard to assist users with system set-up (e.g., transducer selection)
- Network Ready
- SONOLINK™ direct "on-line" support via modem communication for diagnostic and application support.
- AUTOSCAN™ function for auto-selection of part alignment, field of view, focus, gating and gain
- Color Management System for image enhancement (includes pre-stored and custom "user designed" color maps)
- Multiple A-Scan display corresponds to selected point on C-Scan image
- Quantitative measurements for distance and time on image or A-Scan
- Automatic storage and recall of instrument settings and parameter library when a saved image is recalled
- GIF, JPG, TIF, BMP and PCX file outputs for digital data transfer and file storage

Optional Features

- Waterfall[™] Transducer for non-immersion type scanning
- Heater and/or Chiller for water temperature stability and consistency
- Digital Image Analysis (DIA) includes area fraction analysis (including Mil-Std-883, Method 2030), image enhancement, histogram, FFT, pixel amplitude analysis, plus image subtraction and addition
- VRM™ (Virtual Rescanning Mode) stores 100% of A-Scan data to allow further analysis of a part no longer available. Additional Profile Imaging and Frequency Domain Imaging (FDI™) Modules are available for 3D depth and frequency related imaging, respectfully
- Additional RF Slice/Memory for multi-level data acquisition

(Note: All specifications are subject to change without notification)