KSI v-400 SAM

Built to industry’s requirements, v-400 is a flexible non destructive tool for failure diagnosis, process quality control and research application.

- New patented “bubble”-free transducer design for high speed scanning
- New flexible adjustable Z-height levelling for sample holder
- 1500mm/s scanning speed for production
- 30% faster image-display
- New CCD camera option
- Robust construction with granite platform
- Multi-language graphical user interface
- Adjustable unique sample stage and water filter system inclusive
- Plug and play concept to ease of installation
- Scanfield up to 400 mm x 400mm
- Magnification up to 625x
- Push button emergency stop for production environment

Uncover Hidden Defects

T-scan, delamination at die attach
C-scan, inside of IC
High frequency, small package examination
C-scan, delamination at die attach
B-Scan, die tilt and delamination

Scanner speed comparison
Bubble-free transducer design
v-400 SPECIFICATION

Electronics, rf- and scanning system
High performance RF-interface 450 MHz bandwidth
High Resolution ADC Interface
0.001 mm length encoder resolution
All components mounted in lower enclosure
Direct multi axis drive linear motion system
Scanning range from 200 μm x 200 μm to 400 mm x 400 mm *(1)
625 x magnification
Outstanding high scanning speed: 1500 mm/s
Maximum Acceleration 14000 mm/s²
Motorized z-drive (100mm traverse path) with autofocus
Sample tank 540 x 740 x 120 (w/l/h) *(1)
Adjustable sample stage

Scanning modes and software features
A-, B-, C-, D-, G-, 3D-, P-, X-, Z-, Auto-, Tray-, and Sequence-scan
Multi language user interface (for example german, english, chinese, taiwanese, indonesian, spanish, ...)
A-scan real time display with time of flight measurement function
Mean-, Peak-, Time-detection
Combo- and meander scan mode
FFT Analysis
Autofocus system
Sample thickness calculation
Reset-Function for easy image reconstruction
Free selectable color coding
Image export in “.jpg” and “.bmp” - format
Storage of all instrument settings with every image
Variable gain, gate width and gate delay setting during scanning
Thresholding, positive-negative peak phase detection: amplitude, mean, bipolar
Phase measurement with automatic delamination detection (selectable)
Length measurement, zoom mode
Impedance measurement with histogram and calibration curve
Automatic acoustic impedance colour set up
Image cascade display
Text overlay in A-Scan and all recorded pictures
A-Scan Storage in .bmp format

Options
Transmission scan package (contains hard- and software)
Simultaneous scan package (contains hara- and software)
Scandium® Image Analysis Package (Software)
KSI VISION VIEW Image Analysis Package (Software)
Working table (for screen, keyboard and mouse)
2nd monitor for PC workstation

PC Workstation *(2), *(3)
High performance industrial PC workstation with Intel Core2Duo E4600 (2 x 2.4 GHz)
Operating system: Windows 7 multilingual
LCD flat screen monitor 19 inch
250 GB hard disc
2048 MB RAM
DVD-RW drive

*(1) other dimensions on request
*(2) customer specifications on request
*(3) technical changes to higher specifications without notice