Advantages of the KSI v400™

- New patented FCT transducer for high-speed-scanning
- 2000 mm/s scanning speed for maximum throughput
- 30% faster image-display
- Robust construction with granite platform
- Multi-language graphical user interface
- New adjustable sample stage
- Filter-system for couple liquid
- Plug-and-Play concept for quick-and-easy installation
- Scanfield up to 400mm x 400mm
- Real magnification up to 625x
- Push-button emergency stop for production environment
- Maximum Acceleration 30,000 mm/s²

Built to industry’s requirements, the KSI v400 is a flexible non-destructive diagnostic system for failure analysis, process and quality control and research applications.
Electronics, rf- and scanning system

- High performance RF-interface 550 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: 2000 mm/s
- Maximum Acceleration 30,000 mm/s²
- Motorized z-drive (100mm traverse path) with autofocus
- Sample tank 540 x 740 x 120 (w/l/h), filter system
- Adjustable sample stage

PC Workstation *(2), *(3)

High performance industrial PC workstation
Operating system: Windows 7 multilingual
LCD flat screen monitor 22"
320 GB hard disc
4096 MB RAM
DVD-RW drive

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

Options

Through-Scan-Kit (contains hard- and software)
Vacuum-Sample Stage
Simultaneous scan package (contains hard- and software)
KSI VISION VIEW Image Analysis Package (Software)
Working table (for screen, keyboard and mouse)
2nd monitor for image analysis

KSI v400 Specification

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 map
- 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
- Image cascade display
- Text overlay in A-Scan and all recorded pictures
- A-Scan Storage

KSI - Kraemer Sonic Industries GmbH

Auf der Weiβ 11
D-35745 Herborn
Germany

Tel.: +49 (27 72) 957 957
Fax.: +49 (27 72) 957 958
eMail: info@ksi-germany.de

www.ksi-germany.de
www.acoustic-microscopy.com