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LIS - Overview

The Ultrapointe 1010 Laser Imaging System is the most advanced optical review station available today. With its superior resolution and high magnification, it is the ideal solution to your current- and next-generation device's defect review requirements. Consider just a few of the 1010's capabilities:

- Superior Resolution (~0.15 μ m)
- True 3-Dimensional Imaging
- 2-Dimensional Surface Profiling
- Fully ADC Ready
- Higher Magnification (>20,000X)
- Sub-surface Defect Imaging
- Quick & Easy Measurements
- Easy-to-use software interface



The 1010 includes *both* a research-grade white light microscope *and* a state-of-the-art confocal laser-scanning microscope. While the white light portion uses a 100-Watt Halogen bulb, a 25-milliWatt Argon-ion laser illuminates the laser image.

The "brains" of the 1010 is a RISC-based workstation that utilizes a 200MHz, 64-bit microprocessor accompanied by 24-bit graphics to display 16.7 million colors. It's the perfect platform to support the 1010's current imaging requirements as well as our optional Identifier ADC (Automatic Defect Classification) package.

All of our images can be saved on the 2.0GB hard disk and there's an optional 1.3GB magneto-optical drive for unlimited image storage. NFS can be used for Ethernet communication and we're fully compatible with all the major automated defect detection systems (KLA-Tencor, Orbot, OSI, Inspex, and others).

White-light Imaging Capabilities

- Proprietary high-speed autofocus
- Three objectives: 5X bf/df, 50X bf/df, 100X bf (20X bf/df and 150X bf optional)
- Bright Field and Dark Field Imaging Modes
- High resolution, color, 3-chip, CCD camera
- 13-inch high resolution color video monitor
- Integrated white light video image on graphics monitor (optional)

Real-time, Laser Confocal Imaging

- Proprietary high-speed autofocus
- Multi-wavelength, 25-milliWatt Argon ion Laser (458nm, 488nm, 515nm)
- Four selectable scanning field of views

RISC-based Workstation Controller

- 200MHz, mips R4400 microprocessor with secondary cache
- True 24-bit graphics controller
- 17-inch, high resolution graphics monitor (20-inch optional)
- 2.0GB magnetic hard disk drive
- 3.5-inch floptical disk drive (for 1.44MB magnetic or 21MB optical)
- 250MB, 1/4-inch tape drive
- 1.3GB magneto-optical drive with removable media (optional)

State-of-the-art System Design

- Closed-loop, high-accuracy XY stage with glass-scale encoders
- Proprietary piezo-flexure Z stage with 12nm resolution
- Reliable, automatic robotic wafer handling
- 4, 5, 6, and 8-inch wafer capability
- 6 or 8-inch Integrated Asyst Indexer (optional)
- Internal vibration isolation system
- Class 1, stainless steel enclosure
- Sophisticated internal LON network

Ultrapointe Software

- Easy-to-use imaging control system software
- Surface imaging package for 3D views and 2D line profiles
- Volume imaging package for sub-surface defect analysis
- TCP/IP NFS software for network interface (optional)
- File interface with KLA-Tencor, Orbot, OSI, Inspec, Hitachi, Dentech, Knights, and LPA products (each optional)
- GEM/SECS or GEM/HSMS (optional)
- Identifier ADC for fully automatic defect classification

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