



HRT 3000 OPTICAL STYLUS PROFILER

Enhancing Productivity with Vision

Tamar Technology introduces the HRT 3000, a non-contact optical stylus profiler. This new technology addresses many challenging applications for the MEMS, Semiconductor, Flat Panel Display, Medical Device and Hard Disk Drive industries.

MEMS

Tamar's Optical Stylus can measure deep, narrow trenches and sharp steps, helping to control etch rates and confirm quality.

Semiconductor

Tamar's HRT 3000 can measure isolation trenches, as well as wafer thickness on both thin wafers and bumped wafers for process and quality control.

Flat Panel Display

In addition to non-contact flatness measurement, the HRT 3000 can also measure spacers and layer thickness.

Medical Devices

DNA and microfluidic devices benefit from the HRT 3000's non-contact quality assurance.

Hard Disk Drive

ABS step height, media thickness and flatness have found quick solutions with the Optical Stylus Technology.

The HRT 3000 is real time, optical, and non-contact. It measures various surface topographies and reflectivities, and easily addresses sharp steps and geometries up to 2000 microns in Z height. The Optical Stylus technology is based on a single point confocal technique and has no moving parts.

The HRT 3000 is available as a stand-alone metrology system or in OEM modules. Application specific solutions are available. Inquire regarding your application today. www.tamartechnology.com



TAMAR HRT 3000

The Tamar HRT 3000 is a non-contact, optical surface profiler.

Trenches

No other device, such as AFMs, stylus profilers or triangulation systems can measure trenches of high aspect ratios or sharp transitions.

Non-contact

HRT 3000 is the new generation of Stylus profiler. It is optical, non-contact and not based on triangulation.

Flexible

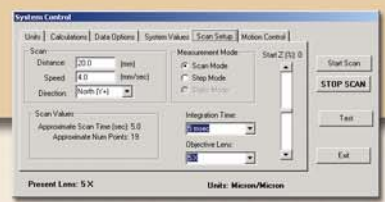
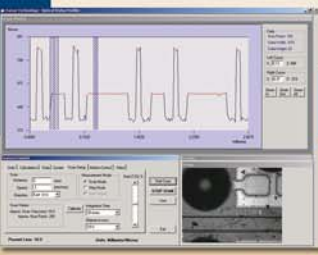
Scan ranges vary from 50 microns to 2000 microns, with resolutions from .03 to 1 micron.

Other Unique Features of Tamar's HRT 3000:

The system uses microscope objectives so that the resolution and scan range can easily be changed.

Scans can be in any direction, including diagonally.

A real time video image allows X-Y vision applications on the same system.



Tamar Technology

996 Lawrence Drive, Suite 202 • Newbury Park, CA 91320 • (805) 480-3358

www.tamartechnology.com

TAMAR TECHNOLOGY

Enhancing Productivity with Vision

HRT 3000 OPTICAL STYLUS PROFILER

The Tamar HRT 3000 is a non-contact, optical surface profiler.

Trenches

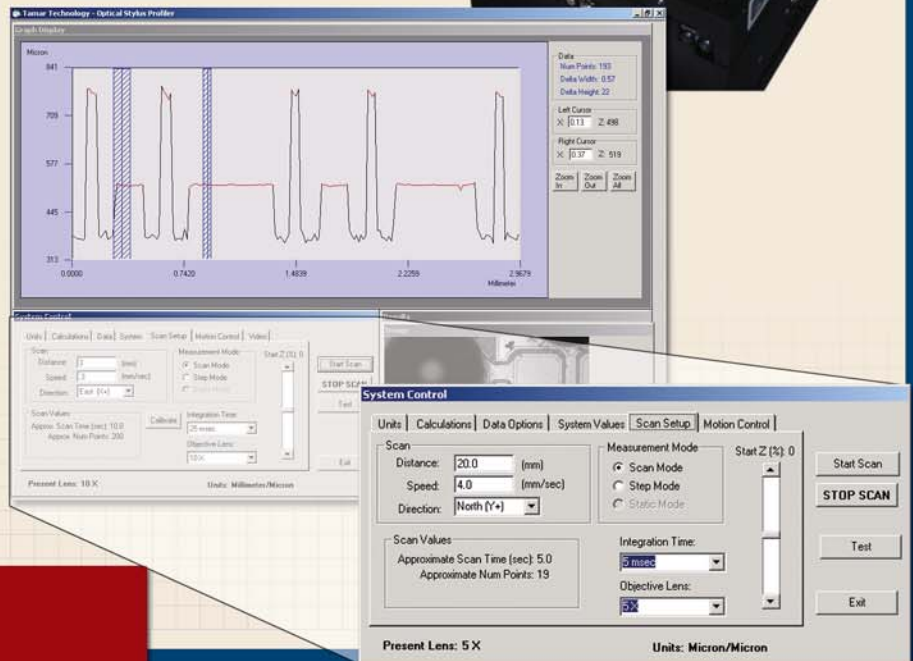
No other device, such as AFMs, stylus profilers or triangulation systems can measure trenches of high aspect ratios or sharp transitions.

Non-contact

HRT 3000 is the new generation of Stylus profiler. It is optical, non-contact and not based on triangulation.

Flexible

Scan ranges vary from 50 microns to 2000 microns, with resolutions from .03 to 1 micron.



Tamar Technology

996 Lawrence Drive, Suite 202 • Newbury Park, CA 91320 • (805) 480-3358

www.tamartechnology.com