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INTERFEROMETE

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DV S.r.l.

Viale dell'Industria 62 - 35129 Padova ITALY Tel. +39 049 8070024 – www.dvoptic.com infospectroscopy@dvoptic.com

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Our latest development is an instrument designed to satisfy the needs of precision measuremeant of 3D surfaces. WaveRunner embeds the art of high quality microscopy and interferometry since it can be used simultaneosly as a microscope or an interferometer. WaveRunner and the software InterferoLAB® can perform the following functions:

- 2D High precision measurement by means of confocal or dark field microscopy.

- 3D measurement sub-micron precision.
- Profilometer
- Surface characterization.
- Roughness measurement.

WaveRunner performs the measurements on various type of materials and the surfaces can be coated or uncoated, opaque or transparent. Applications are on Laser, mechanical and etched gravure, ceramic anilox, flexo and litho plate evaluation.

HARDWARE

WaveRunner Features:

SYSTEM

Type: White Light Interferometry System Objectives: 10x MIRAU type Field of View: Objective 10x and native magnifications Combination 1 : 5x 730x550µm @1.14µm 10x 360X275µm @0,6µm Fine focus travel 13mm

Illuminator broadband light source LED Area Sensor: 1/2" colour CCD Data Link to Computer: USB 3.0 Illumination Ring: Multi LED white and coloured illumination.

PERFORMANCE

Scan Range 2mm Scan step 50 nm Vertical Res. $\leq 0,1\mu m$ independent of the magnification Data scan rate 10µm/sec

DIMENSIONS AND CONSUMPTION

Dimensions 240 x 120 x H221 mm Weight 3 95Kg Input voltage 24V 60W (Power supply 230VAC)

ENVIRONMENTAL

APPI ICATIONS

Temperature 10 to 40°C Humidity 5-95% relative, non condensing

SOFTWARE

InterferoLAB Features:

USER INTERFACE

- User friendly acquisition interface.
- Works on multiple scans simultaneously in separate windows.
- Automatic positioning of the axis based on the radius of the scanned cylinder or flat sample height.
- Autofocus
- 2D representation with selectable palette indicating the depth.
- 3D representation with rotation / zoom / pan.
- X,Y profile chart on point selected in the 2D image.
- Chart of a line drawn freely from two points in the 2D image.
- Angular inclination of the X, Y axes plotted on the charts.
- Surface section on 3D image with plot of the profile.

MEASUREMENTS

- Line and angle screen calculation.
- Measure of distance and depth on the plot by positioning markers.
- Roughness calculation, Ra, Rz, Rt and RMS
- Automatic calculation of the cells volume with manual refinement. - Wear chart - graph of the volume of the cells according to the
- consumption of the cylinder.
- Correction of the curved surface of cylinder.

MISC

- Acquisition export in proprietary format TIFF or STL.
- Data export on cvs file.
- Printable report of main data and plots with customized logo.
- Multipoint report.



Optics

Gravure