

High precision, portability and affordability – the new surface profilometers from nanoJura

Besançon, France - 10 August 2007. nanoJura, manufacturer of standard and special high precision surface metrology systems, announced the release of two new profilometers, the *NJ-Optimal* and the *NJ-Portable*. Both systems are designed for the high precision measurement of micro- and nano-surface geometry and 2D/3D surface texture.

The *NJ-Portable* is the first portable instrument from nanoJura. Stability and accuracy are assured by a centered mechanical design and dual proprietary systems for correcting stage straightness. Light and compact, placed over the surface under study, the 3D *NJ-Portable* is capable of measuring 25 mm x 25 mm areas on cumbersome objects. The surface is visualised using an integrated micro-camera and high precision measurements are carried out by a chromatic confocal optical gauge with a vertical range of 480 µm and vertical resolution down to 2 nm.

Optimised for performance and affordability, the *NJ-Optimal* complements nanoJura's existing range of 2D/3D high precision profilometers. It has a measurement envelope of 100 mm x 100 mm x 50 mm, with motorised X and Y axes and a manual Z axis. Both mono and dual gauge configurations are available with a wide range of inductive contact gauges and chromatic confocal and triangulation laser non-contact gauges. Dual gauge configurations provide significant flexibility. For example, a dual gauge system can be fitted with an inductive contact gauge and a chromatic confocal non-contact gauge, both with vertical resolution down to 2 nm. Chromatic confocal gauges carry out high resolution measurements of sensitive, flexible and soft materials that could be damaged by a contact gauge with a diamond stylus. They can also measure sharp surfaces (diamond abrasives, dental drills, etc.) that could damage a contact stylus.



NJ-Portable



NJ-Optimal

Media contact

Benoit Moritz
e-mail: bmoritz@nanojura.com
tel: +33 3 81 25 53 68

Head office

nanoJura
Temis Innovation,
18 rue Alain Savary
25000 Besançon, France
tel: +33 3 81 25 53 68
fax: + 33 3 81 25 53 51
info@nanojura.com
www.nanojura.com

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The *NJ-Optimal* and the *NJ-Portable* integrate proven Nobis® chromatic confocal gauge technology, Volcanyon® data acquisition and control technology and Mountains® surface analysis technology from Digital Surf. The integrated industry-standard MountainsMap® surface analysis software is compliant with existing and forthcoming international and national standards, including the ISO 25178 standard on 3D areal surface texture and the ISO 16610 standard on filtering techniques.

“The *NJ-Optimal* and the *NJ-Portable* are built to the most stringent specifications and provide high performance combined with affordability,” stated Anne Calvez, managing director of nanoJura. “The *NJ-Optimal* is an extremely flexible system with a wide range of applications in numerous sectors including the abrasives, aerospace, automotive, electronics, energy, medical, metallurgy, paper and plastics sectors. The *NJ-Portable* represents nanoJura’s entry into the portable profilometer market with an instrument that offers unequalled accuracy, repeatability and stability in its class. Users of our instruments are masters of the whole surface metrology process from high precision contact and non-contact measurement, through powerful surface visualisation and state of the art analysis in accordance with international and national standards, to the generation of comprehensive metrology and quality reports.”

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nanoJura develops, manufactures and commercialises both standard and special high precision and ultra-high precision 2D/3D surface metrology instruments for micro and nanotechnology applications. In addition, it retrofits third party systems. The company works closely with the LPMO (Laboratory of the Physics and Metrology of Oscillators), a department of the FEMTO-ST research institute, and integrates proven technologies developed by surface metrology solutions provider Digital Surf. nanoJura’s high precision instruments are sold through an international distribution network. For more information, visit www.nanojura.com

Media contact

Benoit Moritz
e-mail: bmoritz@nanojura.com
tel: +33 3 81 25 53 68

Head office

nanoJura
Temis Innovation,
18 rue Alain Savary
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