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Even shorter cycles times: New white light interferometry system now with embedded technology

Next generation white light interferometry – New product line for extremely fast and highly precise measurement results

The easy-to-use and versatile white light interferometer (WLI) for inline measurements gets a makeover: The newly developed NetGAGE3D system range follows in the footsteps of the successful WLI systems of the KORAD3D series. The sensor range, which is being presented for the first time at the CONTROL trade fair in Stuttgart, offers high measuring speeds and a robust process and it comes in various configurations for taking color images, conducting batch-type quality inspection or measuring particularly large components.

The high precision of the inline white light interferometry system enables a fast and simple increase in quality. The technology is perfectly suited for full-area contactless 3D measurements with accuracy down to the nanometer range – directly on the production line. With only one scan, the NetGAGE3D white light interferometer reliably delivers high-precision measurement results in the nm range to ensure a reliable measurement of different surface area properties such as flatness or roughness, but also of dimensional accuracy and completeness. The new and extended 3D sensor range follows in the footsteps of the tried-and-tested KORAD3D series, successfully used in numerous applications. The systems are installed quickly and conveniently using a guided setup menu.

Color images, short scan times and versatility

The new NetGAGE3D range is perfectly tailored to automated series production. With particularly short measurement times, the systems

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can be used with minimum cycle rates. Its scan time of less than one second also means that the NetGAGE3D range is suitable as a cycle-controlled measurement technology for use in the electronics industry, where the systems are primarily used to check printed circuit boards or soldering paste. Equipped with new features, NetGAGE3D now captures real-color 3D surface images and achieves 4-times faster scanning thanks to a new method and an integrated processor. Because the measuring light and the camera lens of the NetGAGE3D are mounted coaxially, depths such as boreholes, channels and etched structures are measured without any shadows. In addition, NetGAGE3D can accurately capture various materials in different processing conditions as well as transparent objects contact-free down to the nanometer.

Custom-made precision: NetGAGE3D in various versions

Depending on the object size, the sensor can be used with different measuring fields and is available as NetGAGE3D, NetGAGE3D-S, NetGAGE3D-M, NetGAGE3D-L and NetGAGE3D-XL. The entire range is named after the powerful NetGAGE3D system, which can be used as a stand-alone solution or integrated into a line. Whether operated manually or automated, the sensor ensures highly precise measurement results, in particular through a high resolution of height structures. Thanks to high-quality components, the self-preserving enclosure and low maintenance requirements, NetGAGE3D is very robust. The system is very easy to use thanks to touch screen and point-and-click control and intuitive menu guidance and can be operated without prior knowledge. This makes NetGAGE3D an ideal solution for use in operator self-inspection. The system checks the quality of a great variety of components in a quick and efficient manner, enabling manufacturers to take corrective action during the manufacturing process. Thanks to a special feature for the batch processing of components in a magazine, NetGAGE3D can achieve significant time savings in operator self-inspection.

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The new and versatile NetGAGE3D range offers high-precision measurement technology for wide-ranging requirements. Equipped with an embedded PC and Wi-Fi capability, the systems meet all technical requirements for networked production. Their ability to measure even highly complex or reflective surfaces makes the systems suitable for a variety of applications.

Images



656_1.jpg

NetGAGE3D checks the quality of a great variety of components in a quick and efficient manner.



656_2.jpg

Through batch processing, NETGAGE3D is able to realize tremendous advantages in time and effort for operator self-inspection.

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