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New Product Launch

“ValuCT” Delivers New Price-Performance Model for Industrial NDT

Bohemia, NY, July 5, 2016 – Launched at the World Congress for Non-Destructive Testing 2016 in Munich, Germany in cooperation with the Development Center for X-ray Technology EZRT of the Fraunhofer Institute for Integrated Circuits IIS, VJ Technologies, a division of VJ Group, released the innovative and cost-effective one-click CT System under the brand name “ValuCT”.

The system provides both two-dimensional digital radiography and three-dimensional computed tomography x-ray images with a single touch (button) operation. This allows for perfect images without any previous knowledge needed by the operator, dramatically reducing training and operating costs. “The new system is priced at the cost of traditional Digital Radiography NDT systems with the added ability to deliver high quality 3D CT images... it really is a breakthrough for the industry,” states Vijay Alreja, CEO of VJ Group.

Besides numerous adjustment possibilities that allow a full 360 degree view of the product, modern single-lens reflex cameras are provided with an automatic mode enabling beginners, without any previous CT knowledge, to take images that meet high technical and quality standards. VJ Technologies and the Fraunhofer Development Center for X-ray Technology worked together to deliver this cost-effective, one-click Computed Tomography system, available at a considerably lower price than comparable systems – a price performance breakthrough in the industry.

Fully Functional Capabilities, Simple Operations

Obtaining the optimum x-ray image is a science in itself. It typically requires specialized skills and many precise adjustments to achieve ideal images. The ValuCT system uses innovative algorithms and new technologies to literally “take charge” of the technical direction of this otherwise meticulous process. An intuitive user interface provides operators with easy-to-use predefined programs to optimize the acquisition of images. Thus, the system creates images with parameters optimally adjusted to the test object, reconstructs a 3D model from hundreds of individual images taken from a multitude of axis, and automatically evaluates it fully, in just seconds.

The maintenance-free components of the ValuCT are all source by VJ Technologies and are therefore optimally compatible. The x-ray source is operated at an output of 500 watts and a voltage of 180 kV, together with the detector at a resolution of 150 micrometers. With these specifications, it is possible to examine objects at a maximum diameter of 20 centimeters and a height of 50 centimeters.

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A Multitude of Applications

The ValuCT system is suitable for any possible application of modern x-ray technology – whether reverse engineering, precise location of faults and defects, or metrology.

In particular, small and medium-sized production companies will greatly benefit from the ValuCT. “This new technology and software is a true game changer for many applications. The fact that we have automated the image capture process substantially reduces the learning curve usually affiliated with CT systems. Current customer installs are underway and showing tremendous results,” reports Rahul Alreja, Director of Global Sales, VJ Technologies.

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VJ Technologies

Custom imaging software and hardware products, solutions and services for industry and government.

Founded in 1987, VJ Technologies is a leading global provider of x-ray inspection solutions. We apply our radioscopic digital imaging expertise to government agencies and nondestructive testing (NDT) markets throughout the world.

VJT develops and manufactures a complete line of automated, manual, and turnkey X-ray inspection systems. Our primary market sectors include: aerospace, automotive, electronics, remediation, nuclear, oil & gas, and pipe & weld applications. VJT x-ray inspection systems are used for radioscopic inspection of products and assemblies to detect defects or foreign matter, reducing cost and time while increasing quality and safety.

VJT delivers a competitive advantage over other companies through our network of global offices. In the 21st century, VJT continues to nurture emerging technologies and provide solutions for global customers.

Fraunhofer-Development Center X-ray Technology EZRT

The Fraunhofer Development Center X-ray Technology EZRT, a division of the Fraunhofer Institute for Integrated Circuits IIS, is working in close cooperation with the Fraunhofer Institute for Nondestructive Testing IZFP in Saarbrücken. Fraunhofer EZRT is an internationally leading research and development center in the area of non-destructive monitoring along the entire materials value chain of the product life cycle, ranging from raw materials via production towards recycling. Fraunhofer EZRT is defining and advancing the state of the art in this area, especially by applying imaging X-ray and magnetic resonance techniques as well as optical inspection technologies. The research areas include sensor systems, simulation for data acquisition, image processing for data enhancement and evaluation (metadata acquisition), system development, metrology as well as applications and training. According to the Fraunhofer mission EZRT is positioning itself between basic research in the area of non-destructive imaging and industrial utilization in cooperation with end customers and OEMs. In order to enhance the competitive situation of the Bavarian, German and European economy and to develop new markets and fields of applications Fraunhofer EZRT is developing application-oriented solutions up to turnkey prototype systems. If required, we also assist our partners when transferring those to volume production.