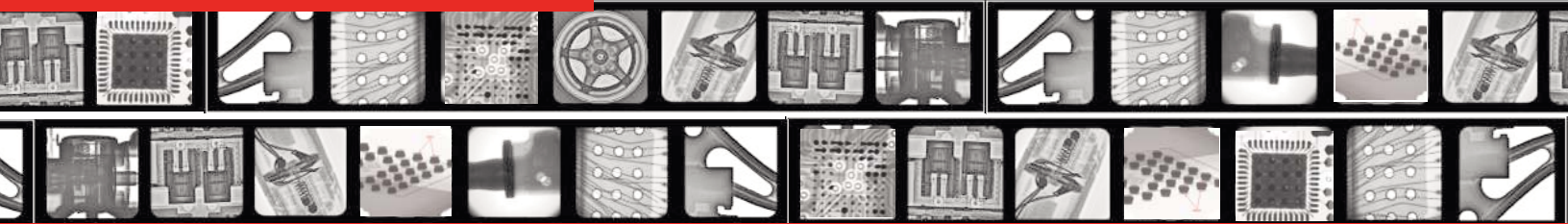




VJ ELECTRONIX

A VJ Technologies Company



VERTEX Series-CT

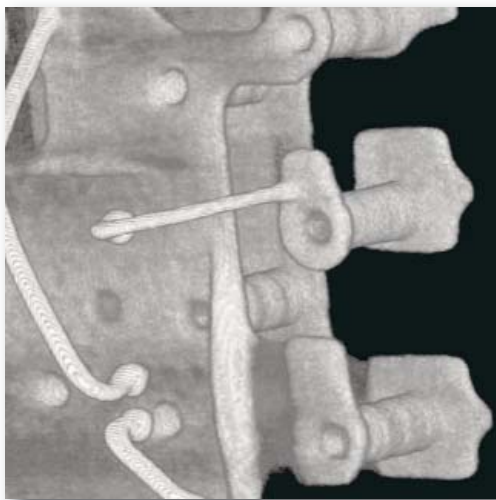
X-RAY SYSTEM

The VJ Electronix Vertex Series-CT is a dedicated Computed Tomography X-Ray system designed to provide the high accuracy and reliability required to perform 3D analysis of the inner structure of any specimen while still capable of the highest quality 2D inspection.

The system, with its intuitive operator interface, is easy to use, is fully integrated and performs simultaneous image capture, motion control and parallel reconstruction. Employing a flexible reconstruction engine/computing network that is one of the fastest available, thanks to the Fraunhofer Institute's Voxel 6 software, the system can be optimized for economics, speed and reconstruction volume. No proprietary hardware is required. The use of operator guidance leads to very short set-up for new samples. The Vertex Series-CT is built to insure mechanical stability and provide a high degree of precision in positioning and repeatability.

Optionally available features include various Artifact Reduction Modules, Virtual Detector Enlargement, 3D Defect Detection/Analysis modules, Visualization Module for 3D Data Modeling and STL Data Generation. For high end applications, the VG Studio MAX package for the analysis and visualization of CT data sets is offered.

A wide range of X-Ray sources and Detectors makes the system very versatile and configurable to handle a diversity of applications. Judicious selection of components results in a system that is easy to use and maintain while remaining a leader in its class.



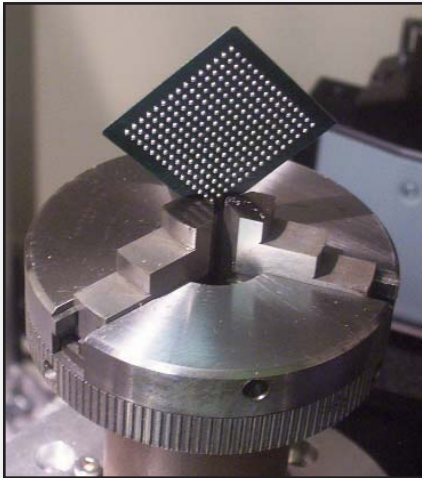
3-D Visualization

Where Technology Meets Production

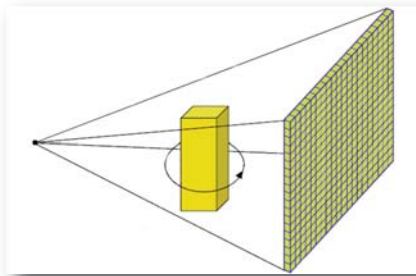
VERTEX SERIES-CT

Base System Parameters:

Model	Vertex Series-CT
Manipulation	X, Y, Z Theta and Detector X Axis
Resolution	$\leq 1\mu$ (Configuration dependent)
Reconstruction Rates	As low as 0.5 sec. per image
Inspection Area	50 x 50 x 150mm Volume 400 x 400 x 300mm Volume*
Security	VJ Electronix X-Ray products are certified to comply with the Federal Standard for cabinet X-Ray equipment as established in Title 21 Subchapter J of the Code of Federal Regulations, Section 1020.40 (and other International standards).
Radiation Leakage Level	VJE Standard ≤ 0.1 mR/hr (1.0 μ Sv/hr) (well below U.S. Federal X-Ray Safety limit: 0.5mR/hr (5 μ Sv/Hr))
Detector & Source	Selection dependent on sample size and materials

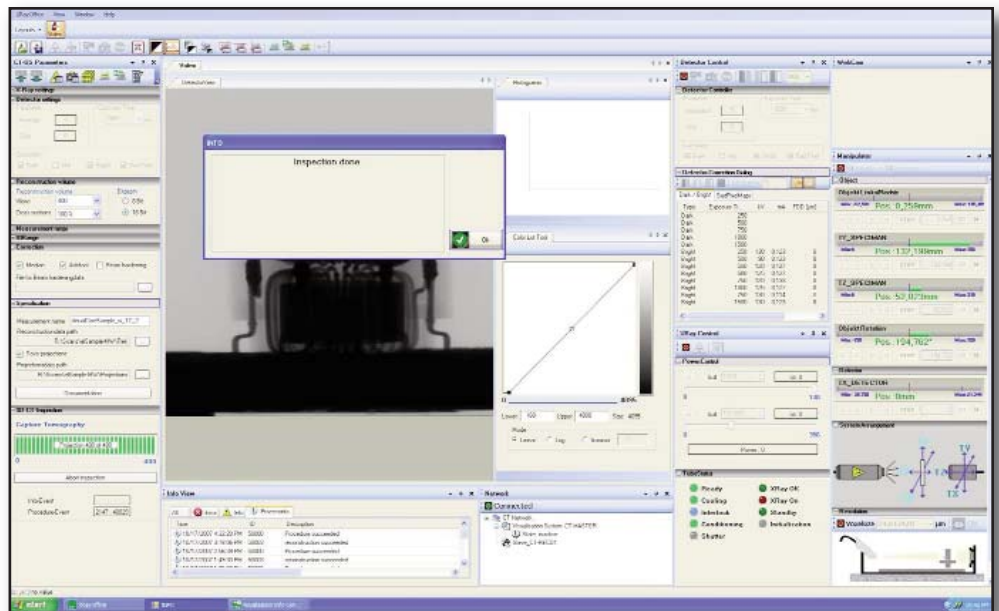


Ultra High Precision Manipulator



Principle of Volume CT Orientation

*Requires Virtual Detector Enlargement (VDE) for 2x sample enlargement. System configuration dependent.



Traditional X-Ray systems provide images in which each pixel represents a gray value resulting from the accumulated absorptions of the energy as it travels through the sample. Loss of energy can only be depicted as a difference in material thickness or height thus providing no more than a Pseudo 3D effect.

By scanning at different angles CT acquires volumetric information and provides physical dimensions and locations of individual details. The resolution of the Data Set is a function of the number of images acquired.

Software creates slices and constructs true 3D models of the Data Set that can be manipulated and viewed from different directions allowing accurate detection, location, dimensional measurement and analysis of features and defects.



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