



■ 3D TOMOGRAPHY SOFTWARE SOLUTIONS

16 th January 2017

PRESS RELEASE

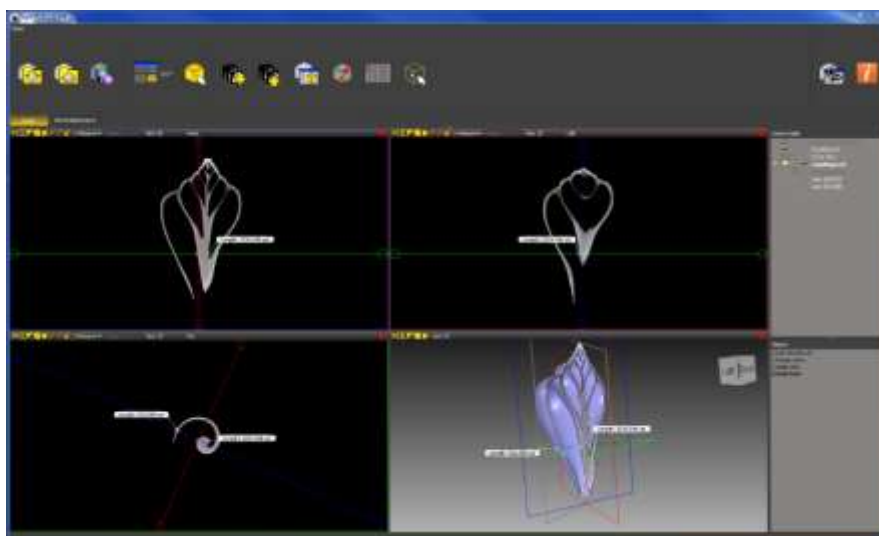
Digi XCT 5.0

STATE OF THE ART RECONSTRUCTION AND VISUALIZATION PACKAGE FOR XRAY CT

Reconstruct / Visualize / Measure

[Geoscience](#) [Material science](#) [life science](#) [engineering](#) [Metrology](#)

CT scanner systems produce more and more high resolution data set leading to very large 3D volume. At Digisens we are dedicated to solve your CT problems to let you focusing on your own expertise. The Digi XCT software suite tackles the problem from reconstruction of 3D volume to visualization with gateways to metrology & quantitative analysis. With Digi XCT, you will be able to process routinely large data set at high speed and to display and handle, in real time, the resulting high resolution 3D volume.



Reconstruction

-**Speed** --> DigiXCT multi GPU, running Nvidia last gen Pascal boards, is simply the fastest reconstruction engine you can have.

Don't wait results for hours or be limited in your size of reconstruction.

-**Compatible** → Digisens software can run with all major CT systems.

GE Phoenix / Xradia / Yxlon / Skyscan and many others, with a single software you can centralize, your reconstructions, standardize results and procedures.

-**Multiple method of reconstruction** FBP + Iterative for low dose or missing angle reconstruction.

You invest a lot in your system and are demanding in term of state of the art reconstruction ? Do not be frustrated : we have the solution.

-**Image quality** --> multiple 2D & 3D filters.

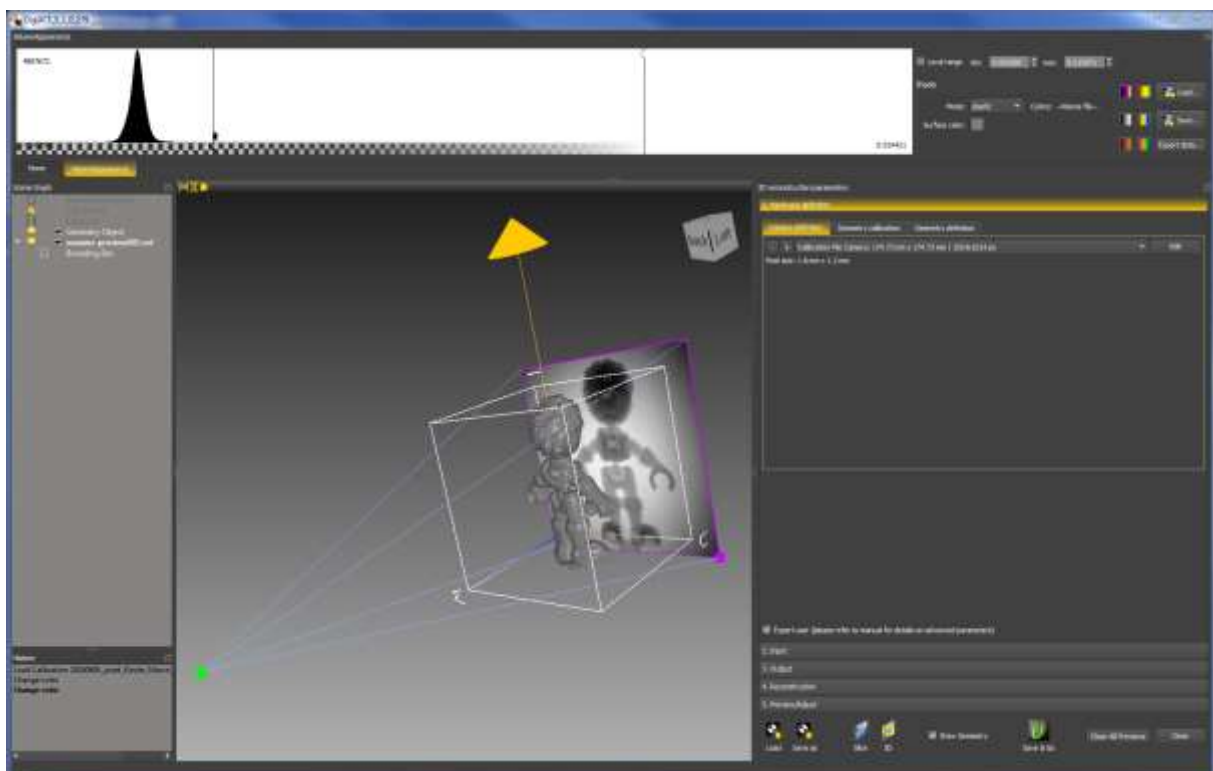
You need superior software to take advantage of your superior hardware.

-**Immediate validation for image quality** --> 2D & 3D preview of reconstructed volume.

Digi XCT GUI is adapted to display filters results in real time.

-**Perfect reconstruction alignment** --> automatic & manual fine tuning center X / phi / theta.

Time saving procedure to be sure to have the sharpest images.



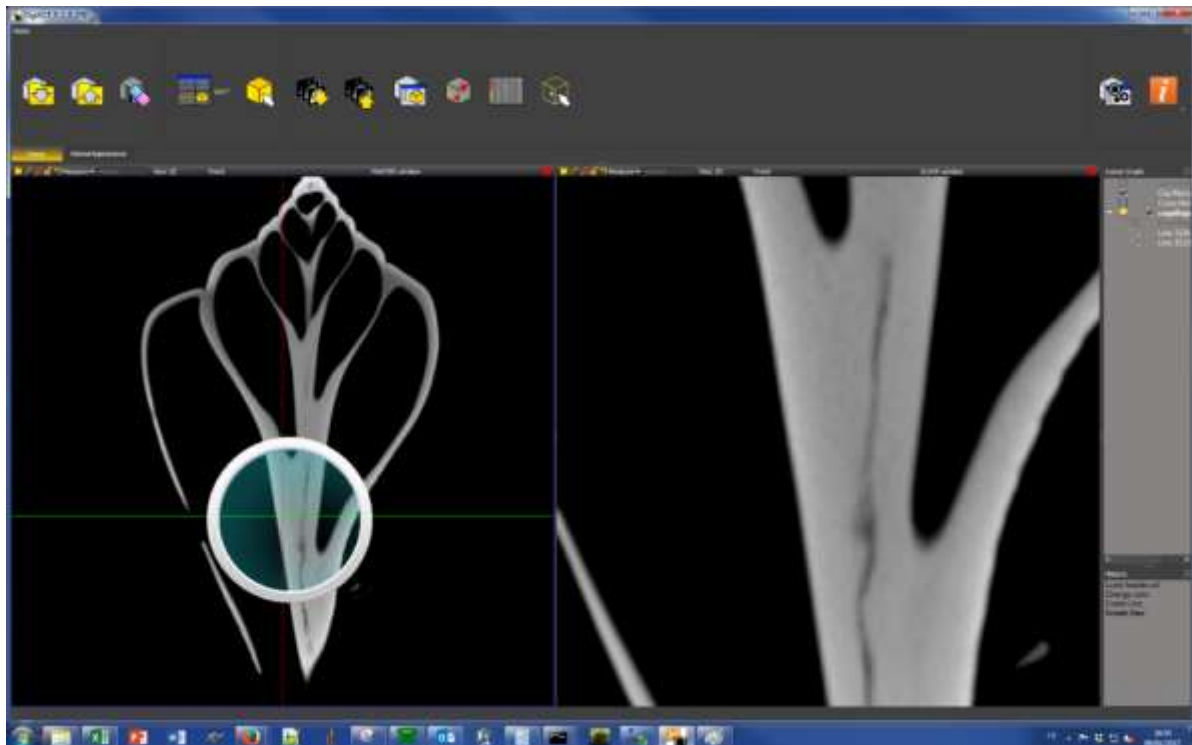
Visualization

-**User friendly interface** --> reconstruction + visualization in the same interface with intuitive procedure.
All in one interface, means more confort and better productivity.

-**Advanced rendering features** --> double crossing / magnification glass / adaptative scaling
newest tools to perform the best visual analysis.

-**Interactive measurement** --> all measurement labels appear on all view including 3D view.
Direct access to basic measurements in all 2D & 3D views, direct gateway to leading metrologic software (workflow certified by Hexagon Metrology).

-**Giga VOXEL rendering** --> UNIQUE!!!! Innovation.
Dedicated to real time, full resolution rendering of 4*4 K data set (release march 2017).



Technical data

Projection Number	Projection Size (Pixels)	Volume Size (Voxels)	Reconstruction time			
			1 x TitanX	2 x TitanX	3 x TitanX	4 x TitanX
720 proj.	1024 x 1024	1024*3	47 s	44 s	38 s	35 s
2000 proj.	2000 x 2000	2000*3	5 min 53 s	3 min 51 s	3 min 39 s	3 min 06 s
2401 proj.	3200 x 2024	2500*3	22 min 58 s	12 min 52 s	9 min 56 s	8 min 40 s
3600 proj.	4096 x 4096	4000*3	03 h 35 min	01 h 41 min	00 h 53 min	00 h 39 min

Reconstruction time table, for single or multiple GPU (12GB Titan X) configuration

-Minimum configuration

Windows 7 or 10 (64 bits) or Linux CentOS 7.0

Minimum configuration for reconstruction : NVidia card (4 GB Maxwell generation and above).

Options

-Metrologic analysis

The 3D Reshaper Quindos option of Digi XCT is the open door to metrology world. This option is developed in close collaboration with Hexagon, a leading global provider of solution for metrology.

-Quantification analysis

DigXCT 5 has be designed to integrate python script and IPSDK the state of the art quantification library developed by Reactiv IP. Quantification module will be release in June 2017.

About Us

Digisens is a team of engineers and PhD ,nested in the French alps. Since ten years we developpe software for reconstruction and 3D visualization with a constant emphasis for innovation.

Contact

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Or fill the dedicated contact form in our www.digisens3d.com website. On the tab « contact us »