STONEX

STONEX® Europe

Stonex Reconstructor

- STONEX Reconstructor
- Survey
- Construction
- Mining

To make more effective the use of the X300, Stonex, has developed a powerful and flexible software called Stonex Reconstructor.

The Stonex Reconstructor software is based on the well known JRC 3D Reconstructor ® technology. JRC 3D Reconstructor® is a software package worldwide appreciated for 3D laser scanner data processing in several application fields.

The software – engineered and powered by Gexcel srl, under Stonex requirements - comes from the convergence of two experiences: the academic know-how of University studies and the applied research achievements of the European Joint Research Centre (JRC), located in Ispra (Italy).

The software aim is to turn the latest scientific achievements in the Geomatics field into an hi-tech software for wide application areas. Thanks to the high knowledge, the software solutions developed in collaboration with Gexcel are able to satisfy different customer's requirements, from the construction and infrastructure application, until cultural heritage, architectural and mining / tunneling surveys.

Stonex and Gexcel engineers have been working together to take advantage of the qualities of the X300 Stonex laser scanner.

The basic software provided is the survey module, which is bundled with the X300. Other plug in are provided for specific functions such as construction and mining.

STONEX Reconstructor
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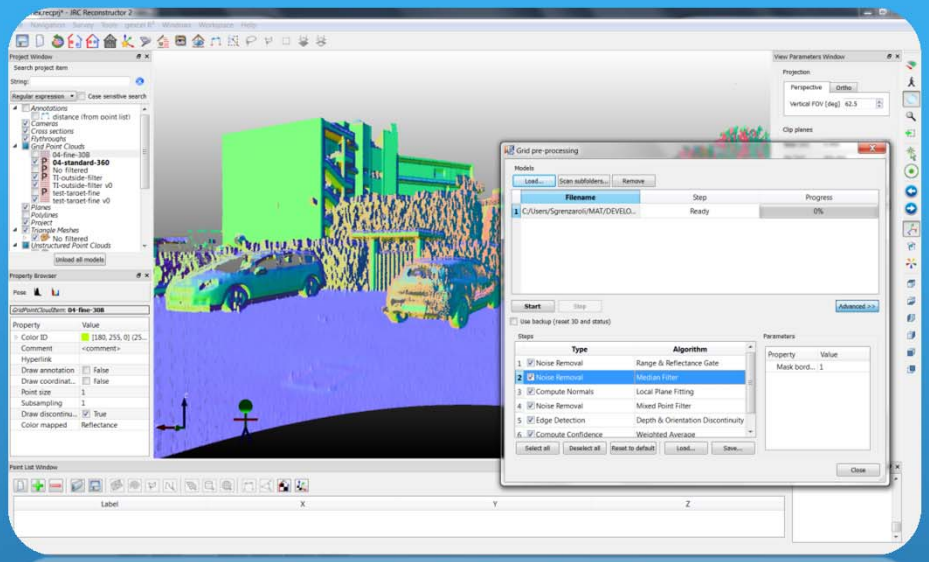
Stonex Reconstructor – SURVEY module

The fitting solution to capture, process and analyze 3D data of artefacts acquired with X300 scanner. Elevation, plans, and cross sections, can be extracted. Colored mesh models can be created and fly-through videos recorded.

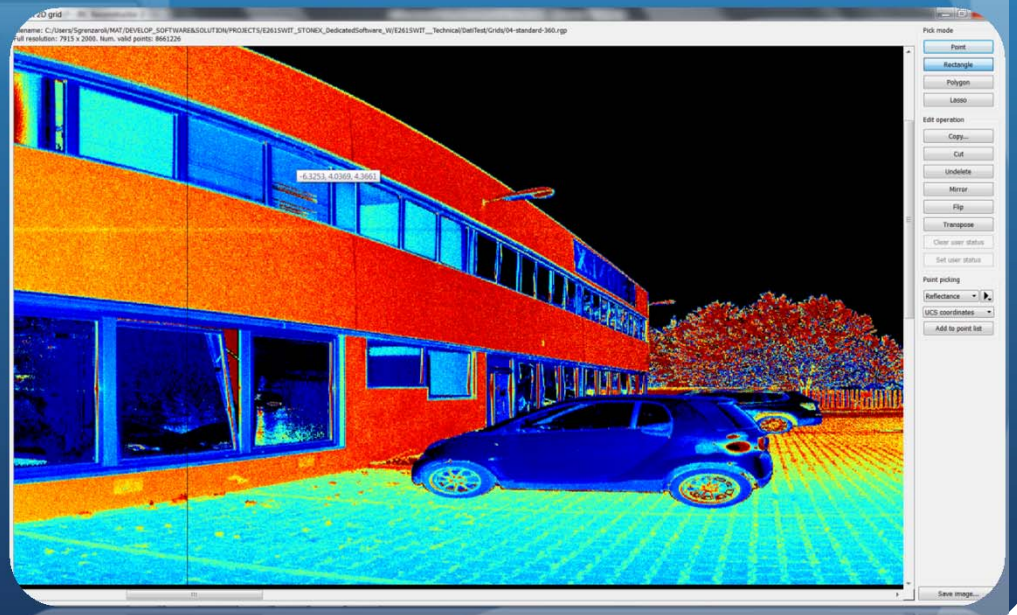
Main features:

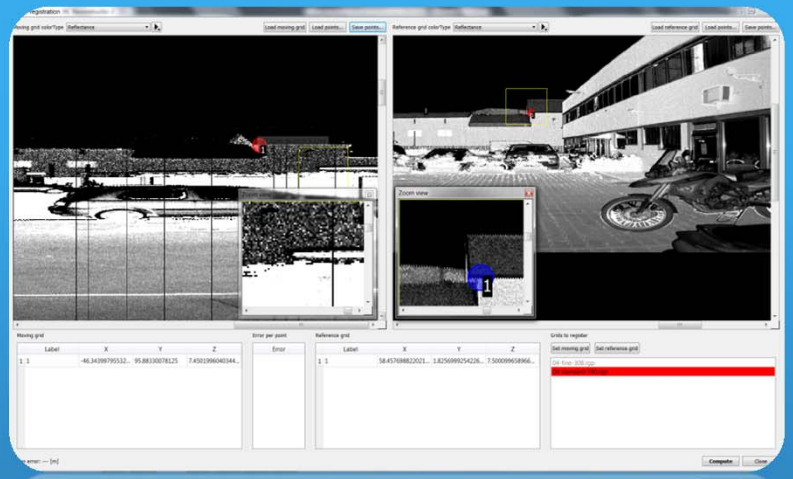
- Stonex X300 Raw data import with reflectance or color;
- Scan alignment and geo-reference with total station points;
- Scans filtering and editing;
- Meshing tools;
- Measuring tool (point, distance, angles) Cross section
- Orthographic, Cylindrical and spherical view extraction from point or meshes;
- Flythrough video creation;
- Easy exportation in CAD or 3D modeling software.

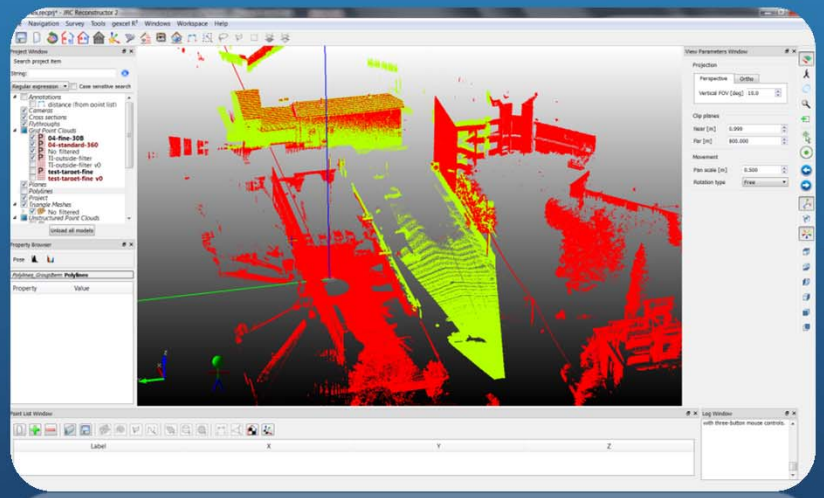


SURVEY Module

Import/Editing/Filtering

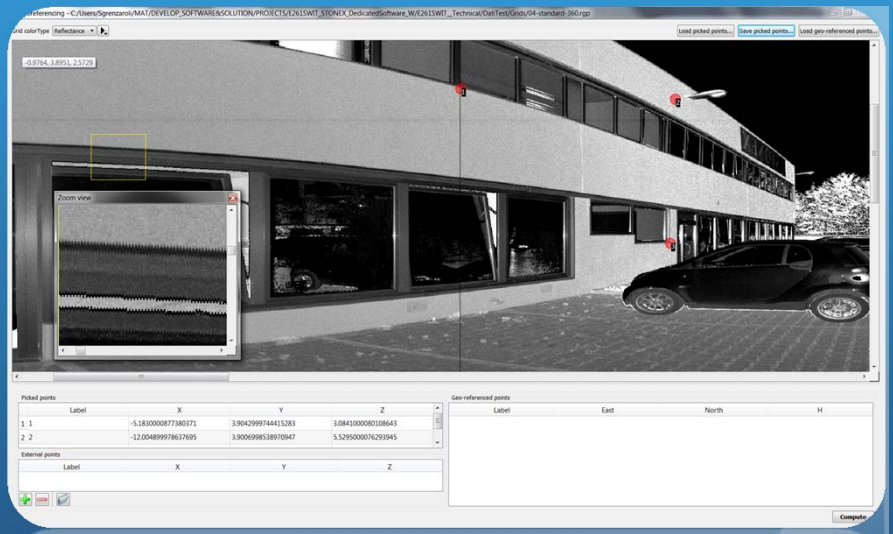


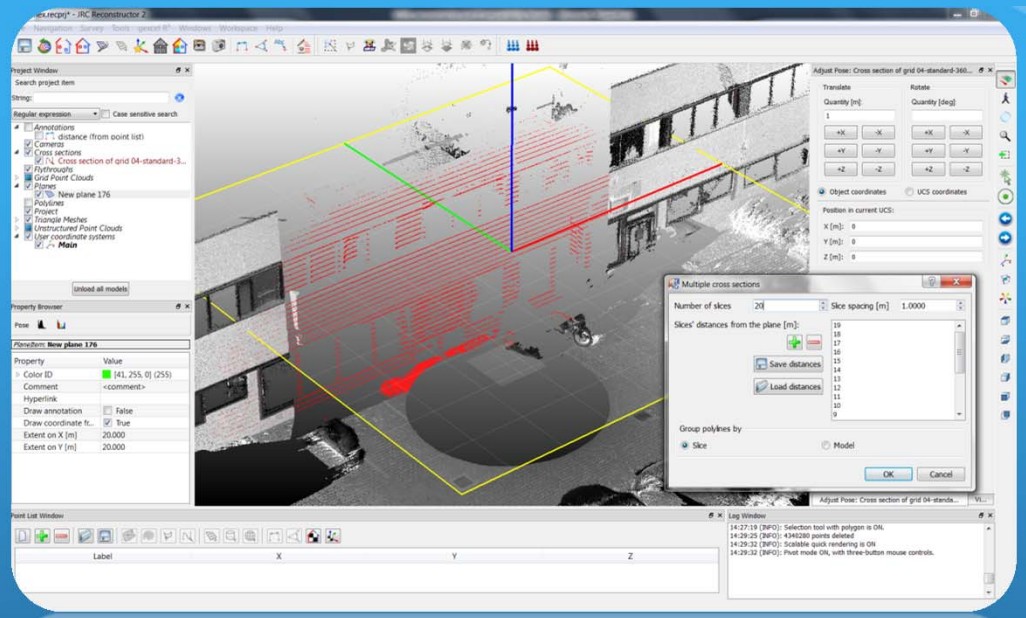


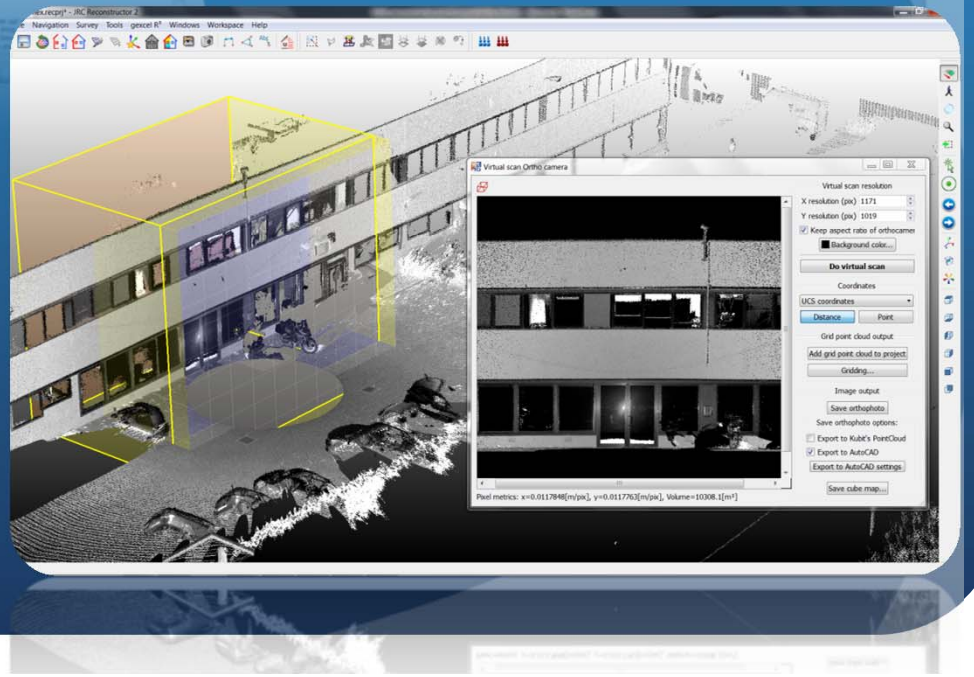


SURVEY Module

Pre-alignement/Alignment/
Geo-reference







SURVEY Module

Plans/Sections/Elevation

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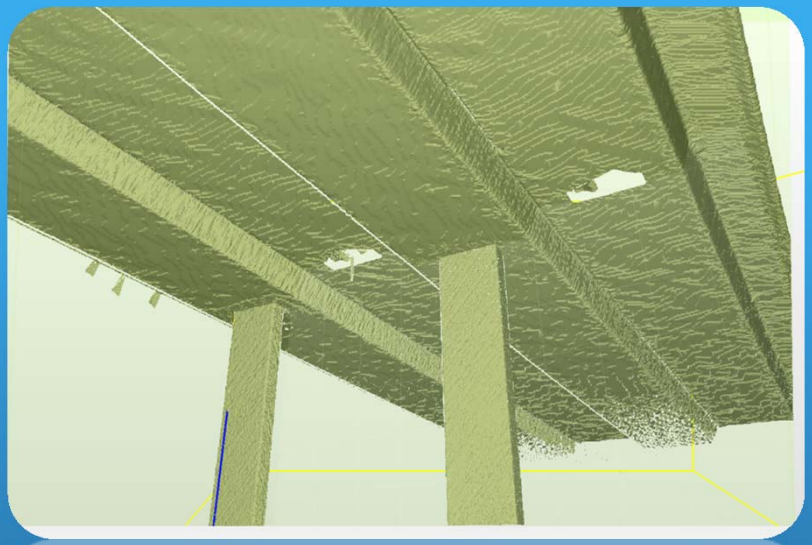
Stonex Reconstructor – CONSTRUCTION module

Specifically designed for construction and civil engineering sector the Construction package offer offers user friendly software solution to easily extract from 3D models to CAD features. It provides deformation and displacement maps, calculation of areas and volumes.. Perfect for geo-referencing both in using large format East-North cartographic coordinates systems (i.e. UTM WGS84) and in accordance with external points or targets measured with total station or GNSS.

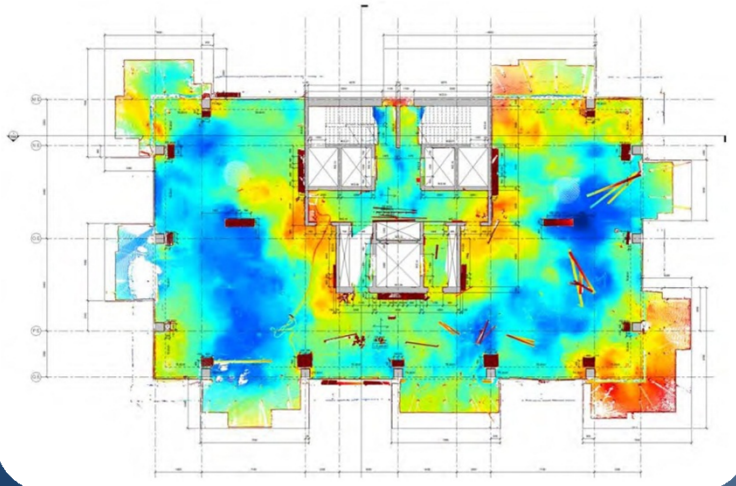
Main features:

- Stonex X300 Raw data import with reflectance or color;
- Scan alignment and geo-reference with total station points;
- Scans filtering and editing;
- Multiple meshing tools;
- Measuring tool (point, distance, angles, areas and volumes);
- Cross section;
- Orthographic, Cylindrical and spherical view extraction from point or meshes;
- Deformation maps;
- Planarity and verticality maps;
- Flythrough video creation;
- Easy exportation in CAD or 3D modeling software;



CONSTRUCTION Module

CONSTRUCTION MODULE
Detection and planarity maps



STONEX Reconstructor
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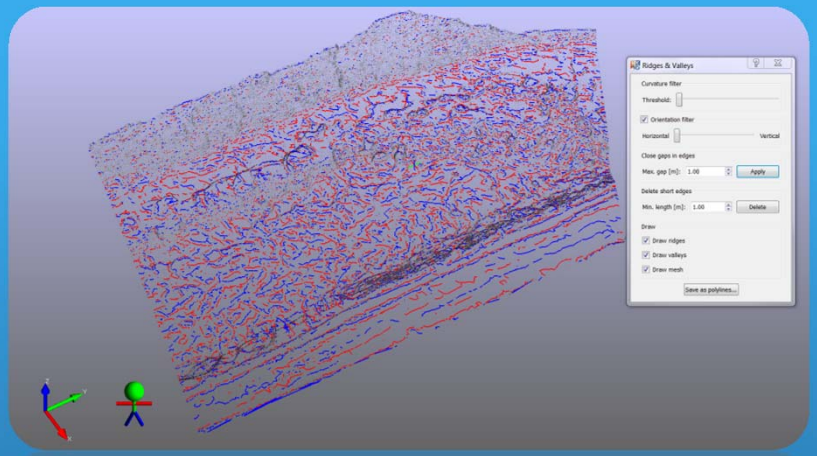
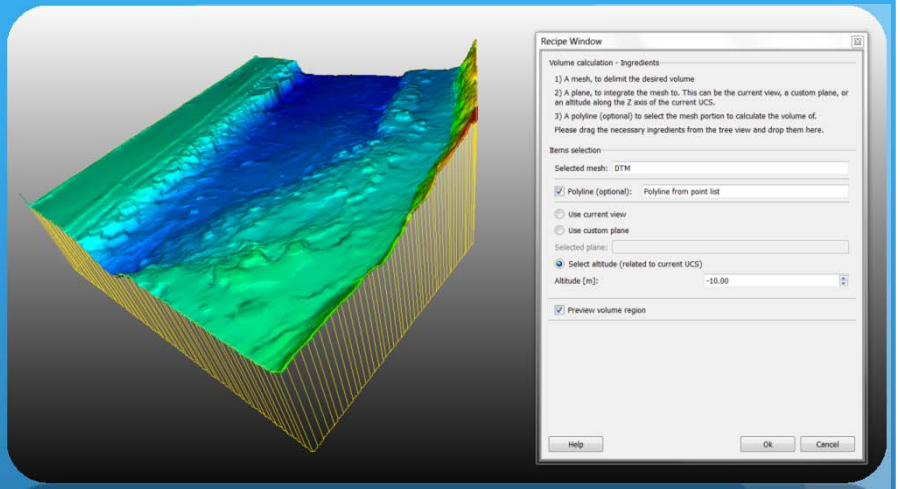
Stonex Reconstructor – MINING module

Specifically designed for open pit mine, landfill and in general landscape topographical application, the Mining package offers a user friendly software solution for infrastructures and land surveys, mines, landfills, excavations and support to geological analysis and monitoring.

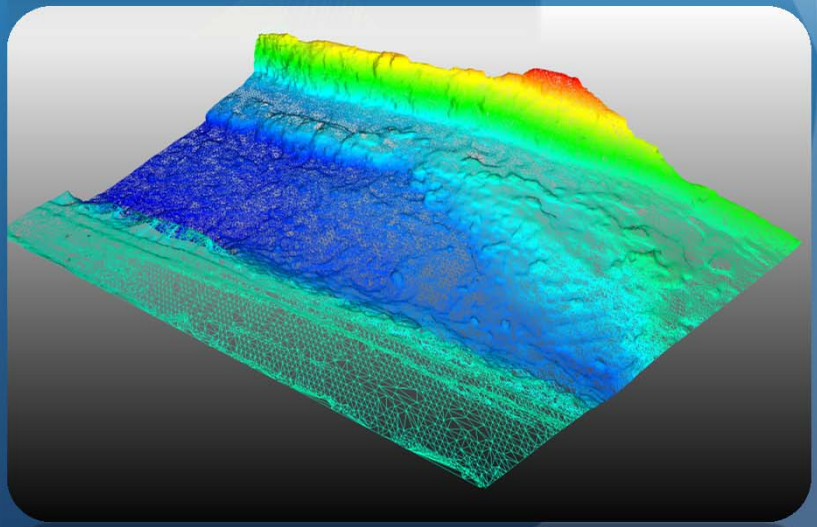
Main features:

- Stonex X300 Raw data import with reflectance or color;
- Scan alignment and geo-reference with total station points;
- Scans filtering and editing;
- Meshing tools;
- Surfaces and DTM creation;
- Measuring tool (point, distance, angles, areas and volumes, cut & fill volumes);
- Cross section, crests & toes, isolines;
- Orthographic, Cylindrical and spherical view extraction from point or meshes;
- Deformation maps;
- Flythrough video creation;
- Easy exportation in CAD or 3D modeling software.





MINING Module



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Stonex ®Europe

Stonex ® Europe srl is a multinational company, based in Lissone (MB), designing and manufacturing surveying instruments for high precision applications in civil engineering, surveying, security, transport and mining. Stonex Europe is always characterized by its high standards of quality, precision, efficiency and reliability, allowing each project to become a landmark ageless. The company operates in over fifty countries, with a full range of products through a network of highly qualified distributors and resellers.

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