nanoCAD 3DScan

nanoCAD 3DScan is specialized software designed for processing 3D scanning data and tackling engineering and informational challenges across fields such as geodesy, mechanical engineering, construction, infrastructure, and metrological monitoring.

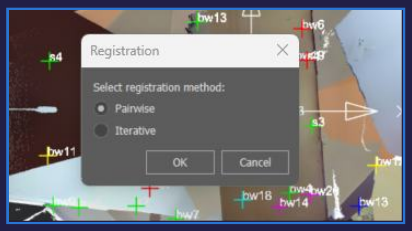
Types of Laser Scanning data to be processed

Surface | Air | Mobile | Other Types

NPC Formats Supported

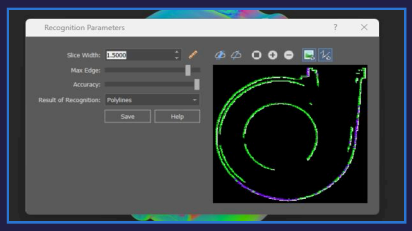
BIN E57 FBX LAS LAZ PCD PLY PTS PTX RSC (RCP) TXT (XYZ) XYB

Over 150 commands for point clouds processing



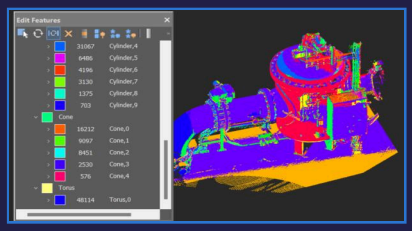
Registering point clouds by reference points with error control

Mutual orientation of multiple point clouds enables registration to identify transformation parameters for any number of reference point groups. Two techniques are employed: pairwise and iterative.



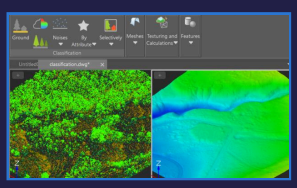
Layer-by-layer vectorization and floor plan generation

Automatic construction of multiple sections of point clouds at specified intervals, followed by their vectorization and the generation of raster images.



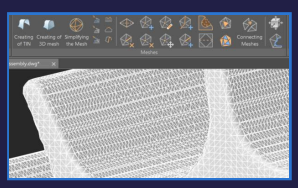
Global search for geometric shapes and pipeline systems

The command identifies basic geometric shapes (plane, sphere, cylinder, cone, torus) within a point cloud.



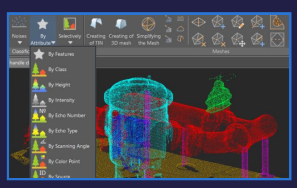
Classifying and verifying ground

An algorithm for automatic ground identification, complemented by a ground verification command that allows for manual refinement of automatically classified points.



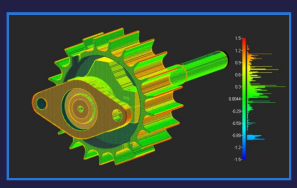
Creation and editing of 3D meshes

The command conducts 3D triangulation of volumetric object point clouds, creating meshes that can be used for triangulating buildings and other surface structures.



Classifying points and establishing named views

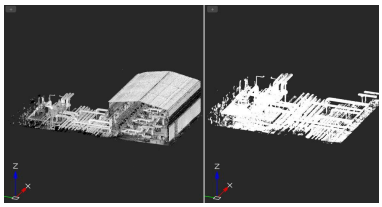
An extensive toolkit and parameters are available for the automatic classification of terrain and other categories based on specified criteria.



Comparison of point clouds

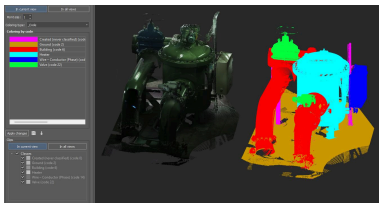
The tool enables evaluation of the degree of alignment between two point clouds or between a point cloud and a model.

And...



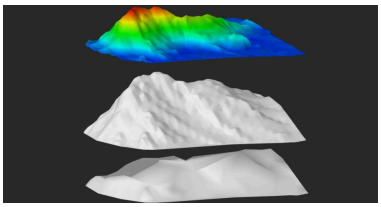
Basic functionality

- Import, export
- Storage
- Display
- Section, Trimming
- Views
- Coloring



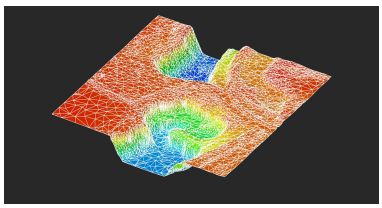
Pre-processing

- Stitching, registration
- Filtering
- Segmentation
- Classification
- Image orthotransformation



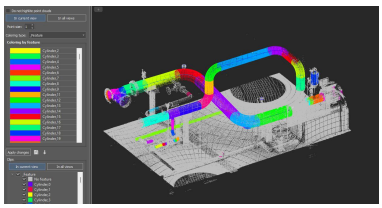
Measurements

- Volumes, areas and distances
- Parameters recognized geometry of surfaces
- Comparison of clouds with models and clouds



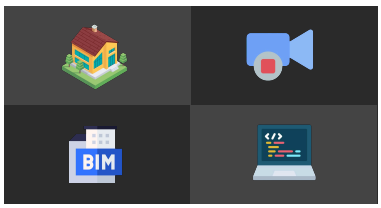
Modelling

- Building 2.5D and 3D models
- Simplification, editing of models
- Texturing



Geometry analysis

- Recognizing geometry
- Geometry inscription
- Vectorization and section analysis



Utilities

- Photorealistic visualization
- Video recording
- Information modelling
- Open API

Flexible Licensing

- **1-year subscription** to get started right away at minimal cost
- **3-year subscription** gives a perpetua license and full support and upgrades for 3 years

- **Workstation license** can be used on a single computer and cannot be transferred
- **Network license** can be used on any computer on the local network

- **Trial License** gives you 30 days of free access to nanoCAD 3DScan with all features unlocked for a complete evaluation

Pricing

Get powerful point cloud processing without the premium price. With nanoCAD 3DScan, you don't have to choose between advanced functionality and your budget. See for yourself how our flexible pricing works: select a workstation or network license, and pick the plan that suits you best — a manageable annual subscription or a one-time perpetual license.

Product	Workstation		Network	
	1 year	3 years *	1 year	3 years *
nanoCAD 3DScan	**$1,499**	**$4,497**	**$1,949**	**$5,846**

* 3-year subscription includes a perpetual license with three years of full support and upgrades.

nanoCAD
ENGINEERING ECOSYSTEM

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