| | nanoCAD Platform 25 + Modules | AutoCAD 2025 | AutoCAD 2025 LT |
|---|---|---|---|
| **Basic technologies** | | | |
| Native DWG format | ✓ | ✓ | ✓ |
| DWG versions supported | R11 - 2018 | R14 - 2018 | R14 - 2018 |
| BAK drawing backups, DWS drawing standards, .DWT drawing templates | ✓ | ✓ | ✓ |
| Commands for creating and editing DWG files | ✓ | ✓ | ✓ |
| Model space, paper space | ✓ | ✓ | ✓ |
| Layer, block, line type, etc managers | ✓ | ✓ | ✓ |
| Create and edit styles for text, tables, leaders, etc | ✓ | ✓ | ✓ |
| SHX, TTF fonts | ✓ | ✓ | ✓ |
| Create and edit tables, extract data to tables and to files | ✓ | ✓ | ✓ |
| Dynamic blocks | ✓ (view, edit only) | ✓ | ✓ |
| User-defined coordinate systems | ✓ | ✓ | ✓ |
| Object snaps, object tracking, polar snap angles | ✓ | ✓ | ✓ |
| Coordinate filters | ✓ | ✓ | ✓ |
| External references | ✓ | ✓ | ✓ |
| Place OLE objects in drawings | ✓ | ✓ | ✓ |
| Import PDF and raster images | ✓ | ✓ | ✓ |
| Explode and remove proxy objects | ✓ | ✗ | ✗ |
| **User Interface** | | | |
| Ribbon and classic interfaces | ✓ | ✓ | ✓ |
| Customize commands, aliases, menus, toolbars, double-clicks, etc | ✓ | ✓ | ✓ |
| Command autocompletion | ✓ | ✓ | ✓ |
| Dynamic input | ✓ | ✓ | ✓ |
| Custom command creation | ✓ | ✓ | ✓ |
| System variable monitor | ✓ | ✓ | ✓ |
| Undo, redo previews | ✓ | ✗ | ✗ |
| **DWG Utilities** | | | |
| Purging of unused items, such as block definitions, layers, etc | ✓ | ✓ | ✓ |

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|---|---|---|---|
| Auditing of drawing file integrity and error correction | ✓ | ✓ | ✓ |
| Recovery of damaged drawing files | ✓ | ✓ | ✓ |
| Flattening 3D geometry to projected 2D representations | ✓ | ✓ | ✗ |
| Transmit packages (eTransmit) | ✓ | ✓ | ✓ |
| Comparison of similarities and differences of two drawings | ✓ | ✓ | ✓ |
| Display drawing structure | ✓ | ✓ | ✓ |
| **Printing** | | | |
| Printing, publishing of drawing sets, batch plotting | ✓ | ✓ | ✓ |
| Color dependent and named plot style table (CTB and STB) | ✓ | ✓ | ✓ |
| Integrated PDF printer driver | ✓ | ✓ | ✓ |
| Comments on SHX text in PDF files | ✓ | ✓ | ✓ |
| Maintain DWG layering in PDF files | ✓ | ✓ | ✓ |
| **3D Modeling** | | | |
| Draw and edit 3D mesh objects | ✓ | ✓ | ✗ |
| Draw and edit 2D and 3D solid objects | ✓1 | ✓ | ✗ |
| Conversion of 2D objects to 3D objects | ✓1 | ✓ | ✗ |
| Dynamic UCS | ✓ | ✓ | ✗ |
| Importing and exporting 3D model in STL, SAT, STP, IGES, JT, X_T, X_B, VRML, and other formats | ✓1 | ✓ | ✗ |
| 3D constraints for mates, angles, tangents, symmetry | ✓1 | ✗ | ✗ |
| Work planes, construction planes, axes | ✓ | ✗ | ✗ |
| Parametric 2D design | ✓1 | ✓ | ✗ |
| Parametric 3D design | ✓1 | ✗ | ✗ |
| 3D History Tree | ✓ | ✗ | ✗ |
| Import IFC | ✓ | ✗ | ✗ |
| **Point Clouds** | | | |
| Point cloud imports of LAS, BIN, PTX, PTS, PCD, XYZ files | ✓ | ✓ | ✗ |
| Point cloud exports in LAS 1.2, LAS 1.4, BIN, XYZ formats | ✓ | ✓ | ✗ |
| Point cloud display styles, point sizing | ✓ | ✓ | ✗ |

| | | | |
|---|---|---|---|
| Point cloud cropping | ✓ | ✓ | ✗ |
| Point clouds sectioning | ✓ | ✓ | ✗ |
| **Topoplan** | | | |
| Insert mapping from online services, such as OpenStreetMap, Google Maps, etc. | ✓ | ✓ | ✗ |
| Create and edit terrain areas | ✓2 | ✗ | ✗ |
| Create reliefs, situation | ✓2 | ✗ | ✗ |
| Import TXT, XYZ, LandXML, MIF, SHP | ✓2 | ✗ | ✗ |
| Display Civil objects | ✓2 | ✓ | ✗ |
| **Raster Image Processing** | | | |
| Operations with raster images (JPEG, PNG, BMP, TIFF, etc.) | ✓ | ✓ | ✓ |
| Convert drawing objects into raster images | ✓ | ✓ | ✓ |
| Raster clean-up with draw, erase | ✓ | ✗ | ✗ |
| Raster four-point calibration | ✓ | ✗ | ✗ |
| Save a raster image in drawing to file | ✓ | ✗ | ✗ |
| Raster geometry correction, colour correction | ✓3 | ✗ | ✗ |
| Raster operations, such as binarisation, colour reduction, debris removal | ✓3 | ✗ | ✗ |
| Decrease color depth of color images to monochrome | ✓3 | ✗ | ✗ |
| Semi and fully-automatic digitization of raster images | ✓3 | ✗ | ✗ |
| **AEC** | | | |
| Drawing tools specific to AEC design, such as axes, elevation markers, etc | ✓4 | ✗ | ✗ |
| Architectural design, such as parametric walls, windows, and doors | ✓4 | ✗ | ✗s |
| Utilities for automated drawing, such as object numbering, detail copy, line markers, etc. | ✓4 | ✗ | ✗ |
| **Mechanical Design** | | | |
| Drawing tools specific to mechanical design, such as weld seams, threads, etc. | ✓5 | ✗ | ✗ |
| Calculators for static beams, fasteners, section properties, etc. | ✓5 | ✓ | ✗ |
| Parts library | ✓5 | ✗ | ✗ |

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|---|---|---|---|
| **APIs** | | | |
| OLE Automation with Visual Basic Script, JavaScript | ✓ | ✓ | ✗ |
| C++ | ✓ | ✓ | ✗ |
| .NET | ✓ | ✓ | ✗ |
| LISP (with DCL) | ✓ | ✓ | ✗ |
| Script editor (JS, VBS, LISP, DCL, SCR) | ✓ | ✓ | ✗ |
| **System Requirements** | | | |
| Operating system (Microsoft® Windows®) | 8, 10,11 | 10, 11 | 10, 11 |
| Minimum memory | 4 GB | 8 GB | 8 GB |
| Minimum display card memory | 1 GB | 2 GB | 2 GB |
| Minimum disk space | 7 GB | 10 GB | 10 GB |
| **Licensing** | | | |
| Workstation licensing | ✓ | ✓ | ✓ |
| Network licensing | ✓ | ✗ | ✗ |
| License borrowing | ✓ | ✓ | ✓ |
| Educational licensing | ✓ | ✓ | ✓ |
| Perpetual licenses (nanoCAD 3-year subscription includes perpetual license registration) | ✓ | ✗ | ✗ |

### Reference

1. Function available in 3D Solid Modeling module
2. Function available in Topoplan module
3. Function available in Raster module
4. Function available in Construction module
5. Function available in Mechanica module