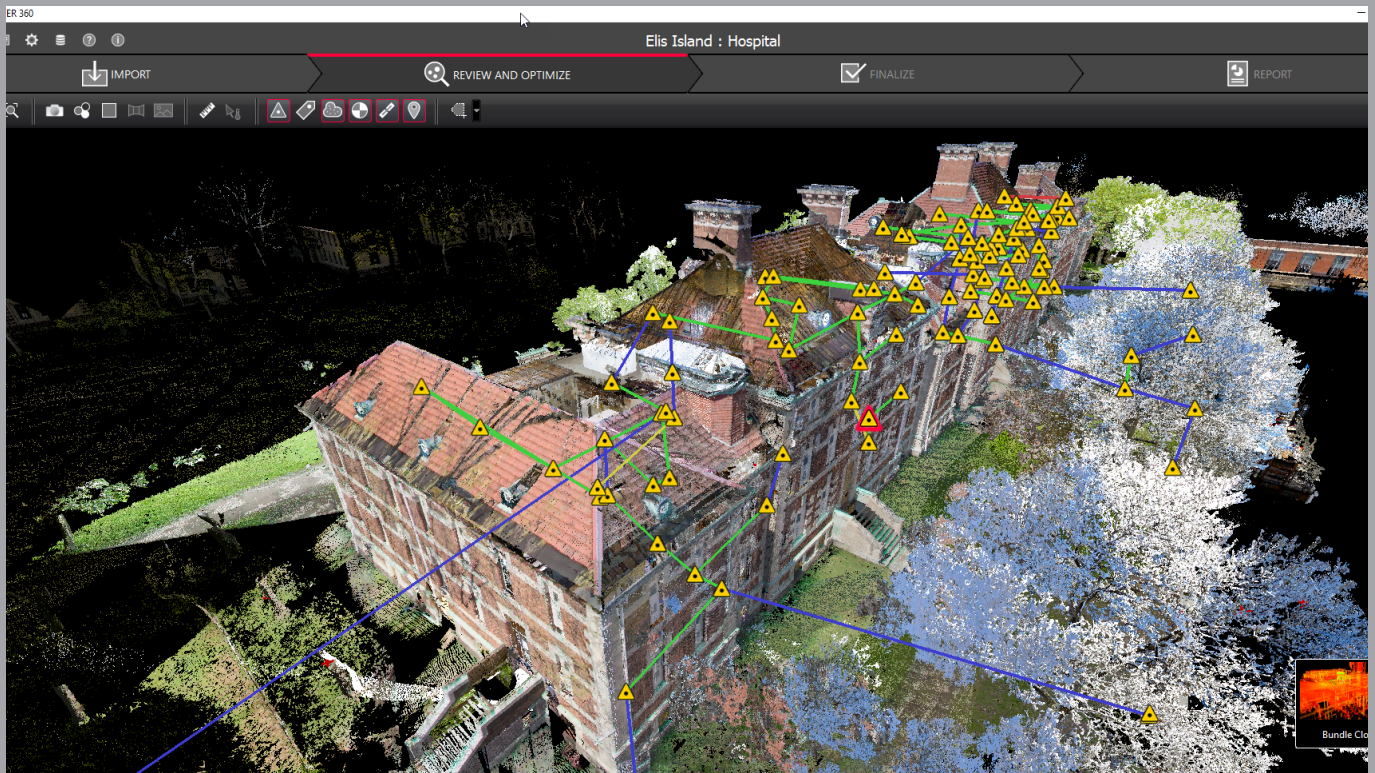


Leica Cyclone Technical Specifications



Valid as of September 2019

leica-geosystems.com



- when it has to be **right**

Leica
Geosystems

PART OF
HEXAGON

| Key | |
|-----|---|
| 1 | These types can be created using best-fit methods |
| 2 | As delivered in database, cannot modify |
| 3 | Enabled if licenced copy of CloudWorx is installed on the same machine |
| † | These types can use catalogue tables |
| 4 | No grip editing for size. Enabled with a Cyclone PUBLISHER Pro or Cyclone JetStream PUBLISHER licence |
| 5 | Requires TruView Enterprise or Cloud licence |
| 6 | Finished registrations are imported as a unified point cloud, unfinished registrations are imported as separate scan worlds into an unfinished registration |
| 7 | Requires Cyclone JetStream PUBLISHER license |
| ◇ | Requires Cyclone PUBLISHER Pro or Cyclone JetStream PUBLISHER or Cyclone TruView PUBLISHER licence |
| 8 | Not in Cyclone REGISTER 360 |
| 9 | Does not support unstructured data |
| * | Requires Cyclone TruView PUBLISHER, or Cyclone PUBLISHER Pro |
| x | Requires Cyclone JetStream PUBLISHER or Cyclone PUBLISHER Pro licence |
| # | Requires Cyclone MODEL VR PUBLISHER licence |
| + | Requires Cyclone PUBLISHER Pro licence |
| ^ | Included free of charge in the Cyclone REGISTER 360 (BLK Edition) licence |

Leica Cyclone Technical Specifications

| REGISTRATION, VISUALISATION, MODELLING & QUERY TOOLS | BASIC | REGISTER 360 (BLK Edition) | REGISTER 360 | REGISTER | MODEL | SURVEY | IMPORTER | Free VIEWER |
|---|----------------|----------------------------|--------------|----------------|-------|--------|----------------|-------------------|
| 3D navigation, Pan, Zoom, Rotate | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆/0 |
| 3D mouse support | | | | ◆ | ◆ | ◆ | | ◆/0 |
| Quick Move | | | | ◆ | ◆ | ◆ | | |
| Panoramic view mode | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆/0 |
| Align to surface view mode | | ◆ | ◆ | | | | | |
| Cloud Level of Detail for fast visualisation | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆/0 |
| Model Level of Detail for fast visualisation | ◆ | | | ◆ | ◆ | ◆ | ◆ | ◆/0 |
| Decimation of point clouds | ◆ | | | ◆ | ◆ | ◆ | | |
| Selectable levels of point cloud density | ◆ | | | ◆ | ◆ | ◆ | ◆ | ◆/0 |
| Quickly show/hide point clouds | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| HDR imagery viewing | | ◆ | ◆ | | | | | |
| Point Cloud Colour map viewing options | | | | | | | | |
| Intensity mapping | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ ² | ◆/0 |
| Greyscale | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ ² | ◆/0 |
| Image Colour mapping | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ ² | ◆/0 |
| Infrared | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ ² | ◆/0 |
| Elevation Based Colour Mapping | ◆ ² | | | ◆ ² | ◆ | ◆ | ◆ ² | ◆ ² |
| Color clouds per setup | | ◆ | ◆ | | | | | |
| Color clouds per bundle | | ◆ | ◆ | | | | | |
| Gradient Background | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆/0 |
| Manually map external digital photo to point clouds (Texture cube map, not pano) | ◆ | | | ◆ | ◆ | ◆ | | |
| Create Multi-image from cube-mapped images | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | |
| Multi-image blending | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | |
| Texture map colours onto point clouds | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ ² | ◆ ² /0 |
| Limit Box for efficient viewing and interaction of selected regions | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | ◆ ⁴ /0 |
| Limit Box Manager to organise multiple limit boxes | ◆ | | | ◆ | ◆ | ◆ | | ◆ ² /0 |
| QuickSlice | | | | ◆ | ◆ | ◆ | | |
| TruSlicer | | ◆ | ◆ | | | | | |
| Slice along X,Y and Z axis | | ◆ | ◆ | | | | | |
| Color clouds by setup | | ◆ | ◆ | | | | | |
| Set Limit Box by fence | ◆ | | | ◆ | ◆ | ◆ | | ◇ |
| Auto Bundle (grouping) of scans | | ◆ | ◆ | | | | | |
| Visualise bundle's Link network | | ◆ | ◆ | | | | | |
| View multiple setups and bundles in same view | | ◆ | ◆ | | | | | |
| Global registration of multiple scans | | ◆ | ◆ | ◆ | | | | |
| Geo-referencing | | ◆ | ◆ | ◆ | | | | |
| Cloud-to-Cloud registration | | ◆ | ◆ | ◆ | | | | |
| Auto Align Scans | | ◆ | ◆ | ◆ | | | | |
| Smart Align for Auto Align | | ◆ | ◆ | ◆ | | | | |
| Visual Alignment including tilted scans | | ◆ | ◆ | ◆ | | | | |
| Automatic orientation for Visual Alignment | | | | ◆ | | | | |
| Automated registration using Black and White targets | | ◆ | ◆ | ◆ | | | | |
| Automated registration using sphere targets | | ◆ | ◆ | ◆ | | | | |
| Optional prioritisation of target-based registration over Cloud-to-Cloud registration | | ◆ | ◆ | | | | | |
| Automated registration across sitemaps | | ◆ | ◆ | | | | | |
| Automatic registration from RTC360 VIS data | ◆ | ◆ | ◆ | | | | | |
| Editing Target labels/names | ◆ | ◆ | ◆ | ◆ | | | | |
| View scanner locations | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ ² /0 |
| Unify point clouds | ◆ | | | ◆ | ◆ | ◆ | ◆ | |
| Basic conceptual design & 2D drawing tools | | | | | ◆ | ◆ | | |
| Insertion of modelled objects/geometry | | | | | ◆ | | | |
| Replication and editing of modelled objects | | | | | ◆ | ◆ | | |
| Planar patch editing | | | | | | | | |
| Make Square or Rectangular | | | | | ◆ | ◆ | | |
| Create/Fill Hole | | | | | ◆ | | | |
| User-defined quality-of-fit checks | | | | ◆ | ◆ | ◆ | | |

Leica Cyclone Technical Specifications

| REGISTRATION, VISUALISATION, MODELLING & QUERY TOOLS | BASIC | REGISTER 360 (BLK Edition) | REGISTER 360 | REGISTER | MODEL | SURVEY | IMPORTER | Free VIEWER |
|--|-------|----------------------------|--------------|----------|-------|--------|----------|------------------|
| Region growing | | | | | | | | |
| Plane | | | | ◆ | ◆ | ◆ | | |
| Cylinder | | | | ◆ | ◆ | ◆ | | |
| Sphere | | | | ◆ | ◆ | | | |
| Smooth surface to segment extraneous data | | | | ◆ | ◆ | ◆ | | |
| Automated Pipe Run with elbows | | | | | ◆ | | | |
| Virtual Surveyor™ to assign survey feature codes to points | | | | | ◆ | ◆ | | |
| Mesh | | | | | | | | |
| Creation (basic, complex, TIN) | | | | | ◆ | ◆ | | |
| Intelligent decimation | | | | | ◆ | ◆ | | |
| Decimation based on user-specified grid spacing | | | | | ◆ | ◆ | | |
| Polyline and breakline support | | | | | ◆ | ◆ | | |
| Delete and add faces | | | | | ◆ | ◆ | | |
| Fill in holes | | | | | ◆ | ◆ | | |
| Generate contours from meshes | | | | | ◆ | ◆ | | |
| Scan Cleaning | | | | | | | | |
| Single scan cleaning | | ◆ | ◆ | ◆ | | | | |
| Bundle cleaning | | ◆ | ◆ | | | | | |
| Cross-SiteMap cleaning | | ◆ | ◆ | | | | | |
| Support for double scan cleaning | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | |
| Detect Moved Objects filtering | | ◆ | ◆ | ◆ | | | | |
| Surface Deviation | | | | | | | | |
| Cut/fill contours | | | | | ◆ | ◆ | | |
| Table output on user-specified grid | | | | | ◆ | ◆ | | |
| Points on user-specified grid | | | | | ◆ | ◆ | | |
| Generate cross-sections through point clouds along an alignment | | | | | | | | |
| Alignment/Station Manager | | | | | ◆ | ◆ | | |
| Create Lines at Station | | | | | ◆ | ◆ | | |
| Create COGO Points, Breaklines & Cross Section Lines | | | | | ◆ | ◆ | | |
| Create profiles, plans and sections | | | | | ◆ | ◆ | | |
| Import LandXML Alignment | | | | | ◆ | ◆ | | |
| Create, Save, @ Load Station Templates | | | | | ◆ | ◆ | | |
| Secondary Plan View Window | | | | | ◆ | ◆ | | |
| Ortho Image Extraction | | | | | ◆ | ◆ | | |
| User-defined QA parameters mapped to link and bundle errors | | | | | | | | |
| Colour-coded | | ◆ | ◆ | | | | | |
| Optimised with graphics for colour-blind users | | ◆ | ◆ | | | | | |
| Station Notation display relative to an alignment | ◆ | | | ◆ | ◆ | ◆ | | ◆ ^{2/0} |
| Fit edge template for curve extraction (e.g. curbs, flowlines) | | | | | ◆ | ◆ | | |
| Measure & dimension point clouds and models | | | | | | | | |
| Slope distance | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | |
| ΔX, ΔY, ΔZ distances | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | |
| Geometric Object Volume | ◆ | | | | ◆ | ◆ | | |
| Surface area | ◆ | | | | ◆ | ◆ | | |
| Horizontal and Vertical Clearances | | | | | ◆ | ◆ | | |
| Angel to Horizontal | ◆ | | | ◆ | ◆ | ◆ | | |
| Angel to Vertical | ◆ | | | ◆ | ◆ | ◆ | | |
| Back angle | ◆ | | | ◆ | ◆ | ◆ | | |
| Cut/fill volume | ◆ | | | | ◆ | ◆ | | |
| Piping takeoff query | | | | | ◆ | | | |
| Automated visual interference checking | | | | | ◆ | | | |
| Fit cylinders, structural steel from catalogues | | | | | ◆ | | | |
| Insert piping components from catalogues (reducer, elbow, branch, flange, valve) | | | | | ◆ | | | |
| Piping Mode to add insulation thickness, Line ID, specification, Symbol Key (SKEY) | | | | | ◆ | | | |
| Set object creation parameters | ◆ | | | ◆ | ◆ | ◆ | | |
| Create and manage object annotation | ◆ | | | ◆ | ◆ | ◆ | | |

Leica Cyclone Technical Specifications

| REGISTRATION, VISUALISATION, MODELLING & QUERY TOOLS | BASIC | REGISTER 360 (BLK Edition) | REGISTER 360 | REGISTER | MODEL | SURVEY | IMPORTER | Free VIEWER |
|--|-------|----------------------------|--------------|----------|-------|--------|----------|-------------|
| Output feature codes and annotated vertices, spheres, to ASCII | ◆ | | | | ◆ | ◆ | | |
| Generate 2D drawings from 3D models | | | | | ◆ | ◆ | | |
| 3D redlining | ◆ | | | | ◆ | ◆ | | |
| Scanner simulation | ◆ | | | ◆ | ◆ | ◆ | | |
| Multiple coordinate system support | ◆ | | | ◆ | ◆ | ◆ | | |
| Assign colours & materials to objects | ◆ | | | ◆ | ◆ | ◆ | | ◇ |
| Create and manage layers | ◆ | | | ◆ | ◆ | ◆ | | ◇ |
| Save/restore viewpoints | ◆ | | | ◆ | ◆ | ◆ | | ◇ |
| Save screen image as image file | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | ◇ |
| Object Grouping | | | | | ◆ | ◆ | | |
| Geometry types that can be created: | | | | | | | | |
| HDS flat targets | ◆ | | | ◆ | | | | |
| HDS spherical targets ¹ | ◆ | ◆ | ◆ | ◆ | | | | |
| Black/White targets | ◆ | ◆ | ◆ | ◆ | | | | |
| Patch (plane) ¹ | | | | ◆ | ◆ | | | |
| Extruded patch | | | | | ◆ | | | |
| Box ^{1†} | | | | | ◆ | | | |
| Corner ¹ | | | | ◆ | ◆ | ◆ | | |
| Steel shape ^{1†} (e.g. I-beam) | | | | ◆ | ◆ | | | |
| Cylinder ^{1†} | | | | ◆ | ◆ | ◆ | | |
| Sphere ^{1†} | | | | ◆ | ◆ | | | |
| Vertex | | | | ◆ | ◆ | ◆ | | |
| Line | | | | ◆ | ◆ | ◆ | | |
| Elbow ^{1†} , Reducing Elbow ^{1†} | | | | | ◆ | | | |
| Cone ^{1†} | | | | | ◆ | | | |
| Torus ^{1†} | | | | | ◆ | | | |
| Reducer (Eccentric, Concentric) ^{1†} | | | | | ◆ | | | |
| Flange (Blind, Weld-Neck) ^{1†} | | | | | ◆ | | | |
| Pipe Tee ^{1†} | | | | | ◆ | | | |
| Valve ^{1†} | | | | | ◆ | | | |
| Polyline, Polygon | | | | | ◆ | ◆ | | |
| Rectangle, Square | | | | | ◆ | ◆ | | |
| Arc, Circle | | | | | ◆ | ◆ | | |
| Ellipse | | | | | ◆ | ◆ | | |
| Cubic spline | | | | | ◆ | ◆ | | |
| Point-of-view camera | ◆ | | | | ◆ | ◆ | | ◇ |
| Point-of-view camera (Height) | ◆ | | | | ◆ | ◆ | | ◇ |
| Pointed (Ballistic) cone | | | | | ◆ | ◆ | | |
| Environmental lighting | ◆ | | | | ◆ | ◆ | | ◇ |
| Create fly-throughs and output sequence of image files or .AVI (Audio Video Interleave) file | | | | | ◆ | ◆ | | |
| Elevation check | ◆ | | | ◆ | ◆ | ◆ | | |
| Pipe Modelling user interface | | | | | ◆ | | | |
| Auto Black & White Target Extraction | | ◆ | ◆ | ◆ | | | | |
| Ortho Image output | ◆ | | | ◆ | ◆ | ◆ | | ◇ |
| Estimate normals | | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | |
| Scripting | | | | | ◆ | | | |
| Model Library | | | | | ◆ | | | |
| Automatic Pipe Finder | | | | | ◆ | | | |
| Create GeoTags | | ◆ | ◆ | | ◆ | ◆ | | ◇ |
| Floor Flatness/Floor Levelness | | | | | ◆ | ◆ | | |
| Customisable Registration Report | | ◆ | ◆ | | | | | |

| TruSpace\Keyplan\Sitemap\Map | BASIC | REGISTER 360 (BLK Edition) | REGISTER 360 | REGISTER | MODEL | SURVEY | IMPORTER | Free VIEWER |
|--|-------|----------------------------|--------------|----------|-------|--------|----------|-------------|
| Open\View KeyPlan | ◆ | | | ◆ | ◆ | ◆ | | ◇ |
| Create SiteMap | | ◆ | ◆ | | | | | |
| Create Map from OpenStreetMap's Slippy map (satellite or streetmap view) | | ◆ | ◆ | | | | | |
| GPS locate Setups on satellite map | | ◆ | ◆ | | | | | |

Leica Cyclone Technical Specifications

| TruSpace\Keyplan\Sitemap\Map | BASIC | REGISTER 360 (BLK Edition) | REGISTER 360 | REGISTER | MODEL | SURVEY | IMPORTER | Free VIEWER |
|---|-------|----------------------------|--------------|----------|-------|--------|----------|-------------|
| Create Hyper links in SiteMaps | | ◆ | ◆ | | | | | |
| Edit Hyperlinks in SiteMaps | | ◆ | ◆ | | | | | |
| Create KeyPlan | | | | ◆ | ◆ | ◆ | | ◇ |
| Edit KeyPlan | | | | ◆ | ◆ | ◆ | | ◇ |
| Open TruSpace | ◆ | | | ◆ | ◆ | ◆ | | |
| Extract targets in TruSpace | | | | ◆ | ◆ | ◆ | | |
| Measurements in TruSpace | ◆ | | | ◆ | ◆ | ◆ | | |
| View Multi-Image in TruSpace | ◆ | | | ◆ | ◆ | ◆ | | |
| Change Colour Mapping (RGB, Intensity, Greyscale, Infrared) | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◇ |
| Temperature readout within infrared view | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | |
| Open ModelSpace view from TruSpace | ◆ | | | ◆ | ◆ | ◆ | | |
| Publish TruView from KeyPlan | ◆* | ◆* | ◆* | ◆* | ◆* | ◆* | ◆* | ◆* |
| Sync view- TruSpace to ModelSpace | ◆ | | | ◆ | ◆ | ◆ | | |
| Quick Limit box from TruSpace to ModelSpace | ◆ | | | ◆ | ◆ | ◆ | | |
| Load Points within Fence | ◆ | | | ◆ | ◆ | ◆ | | |

| DATA IMPORT | BASIC | REGISTER 360 (BLK Edition) | REGISTER 360 | REGISTER | MODEL | SURVEY | IMPORT | Free VIEWER |
|---|----------------|----------------------------|----------------|----------|----------------|----------------|--------|----------------|
| ASCII (XYZ, SVY, PTS, PTX (feet and meters), TXT, Customized format) | ◆ | | PTX only | ◆ | ◆ | ◆ | ◆ | ◆ ³ |
| PTZ, PTG, PTB | ◆ | | PTG only | ◆ | ◆ | ◆ | ◆ | ◆ ³ |
| Cyclone Object Exchange (COE) format (from AutoCAD, MicroStation, via COE Data Transfer) | ◆ | | | ◆ | ◆ | ◆ | ◆ | ◆ ³ |
| SCAN, SC2 | ◆ | | | | | | ◆ | ◆ ³ |
| ZFS, ZFC | ◆ | | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ ³ |
| BMP, TIFF, JPEG, PNG | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ ³ |
| Batch Import and Auto-Align Images (supports iSTAR, Nodal Ninja, Spheron) | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◇ |
| Batch re-import of edited Panoramic images ⁺ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| LandXML | ◆ | | | ◆ | ◆ | ◆ | ◆ | ◆ ³ |
| SIMA | ◆ | | | ◆ | ◆ | ◆ | ◆ | |
| Optech: ixf | | | | ◆ | | | ◆ | |
| FARO: fls, fws, frp | | | ◆ | ◆ | | | ◆ | |
| RIEGL: rsp, 3dd | | | | ◆ | | | ◆ | |
| LAS (feet and meters) | ◆ | | | ◆ | ◆ | ◆ | ◆ | ◆ ³ |
| RCP ⁺ | ◆ | ◆ ⁹ | ◆ ⁹ | ◆ | ◆ | ◆ | ◆ | |
| Cyclone REGISTER 360 archive file (RAF) | | | ◆ | | | | | |
| Import Cyclone REGISTER 360 (BLK Edition) archive file (RAF) | | ◆ | ◆ | | | | | |
| Import Cyclone REGISTER 360 Project | ◆ ⁶ | | | ◆ | ◆ ⁶ | ◆ ⁶ | | |
| Import project data collected on ScanStation C10 | ◆ | | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ ³ |
| Import project data collected on ScanStation P15/P16/P20/P30/P40/P50 | ◆ | | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ ³ |
| Import project data collected on Pegasus scanners | ◆ | | | ◆ | ◆ | ◆ | ◆ | |
| Import project data collected on Pegasus: Two Ultimate | | | | ◆ | ◆ | ◆ | ◆ | |
| Direct WiFi import of project data collected on BLK360 | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ ³ |
| Import project data collected on BLK360 imaging scanner including Cyclone FIELD 360 links, assets and GeoTags | | ◆ | ◆ | ◆ | | | | |
| Import project data collected on RTC360 imaging scanner including Cyclone FIELD 360 links, assets and GeoTags | ◆ | | ◆ | ◆ | ◆ | ◆ | ◆ | |
| E57 | ◆ | | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ ³ |
| DotProduct: dp | ◆ | | | ◆ | ◆ | ◆ | ◆ | ◆ ³ |
| HeXML | ◆ | | | ◆ | ◆ | ◆ | ◆ | |
| Import *.blk data from BLK360 Data Manager | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| LGS (Leica Geosystems Universal project file) | ◆ | | | ◆ | ◆ | ◆ | ◆ | |

Leica Cyclone Technical Specifications

| DATA EXPORT/PUBLISH | BASIC | REGISTER 360 (BLK Edition) | REGISTER 360 | REGISTER | MODEL | SURVEY | IMPORTER | Free VIEWER |
|---|----------------|----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| AutoCAD DXF R12 | ◆ | | | ◆ | ◆ | ◆ | | |
| Cyclone Object Exchange (COE) format (to AutoCAD, MicroStation via COE Data Transfer) | ◆ | | | ◆ | ◆ | ◆ | | |
| ASCII (XYZ, SVY, PTS, PTX, TXT, Customized format) | ◆ | PTX/PTS | PTX/PTS | ◆ | ◆ | ◆ | | |
| PTX as separate Setups (feet and metres) | | ◆ | ◆ | ◆ | | | | |
| E57 as separate Setups | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | |
| Binary Point Cloud (PTZ, PTB) | ◆ | | | ◆ | | | | |
| PTG | ◆ | ◆ | ◆ | ◆ | | | | |
| BMP, TIFF, JPEG, PNG | ◆ | | | ◆ | ◆ | ◆ | | ◇ |
| RCP ⁺ | ◆ | ◆ [^] | ◆ | ◆ | ◆ | ◆ | | |
| LAS (feet and meters) ⁺ | | | | ◆ | | | | |
| Ortho Image, GeoTIFF, TWF (World File) | ◆ | | | ◆ | ◆ | ◆ | | ◇ |
| Batch Export of Panoramic images (PNG, EXR) ⁺ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | |
| SDNF 3.0 (Intergraph Steel Detailing Neutral File) | | | | | ◆ | | | |
| PCF (Alias Piping Component File) | | | | | ◆ | | | |
| Leica System 1200 | ◆ | | | | ◆ | ◆ | | |
| LandXML | ◆ | | | | ◆ | ◆ | | |
| Cyclone II TOPO CWF & PCI | ◆ | | | ◆ | ◆ | ◆ | | ◆ |
| CloudWorx-VR ALP ³ | ◆ | | | ◆ | ◆ | ◆ | | |
| E57 unified | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | | |
| E57 separate Setups | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | |
| HDR imagery | | ◆ | ◆ | | | | | |
| Cyclone REGISTER 360 archive file (RAF) | | | ◆ | | | | | |
| Cyclone REGISTER 360 (BLK Edition) archive file (RAF) | | ◆ | | | | | | |
| LGS (Leica Geosystems Universal project file) including Password-protected | ◆ ⁺ | ◆ ⁺ | ◆ ⁺ | ◆ ⁺ | ◆ ⁺ | ◆ ⁺ | ◆ ⁺ | ◆ ⁺ |
| TruView Local dataset | ◆* | ◆* | ◆* | ◆* | ◆* | ◆* | ◆* | ◆* |
| TVG | ◆* | ◆* | ◆* | ◆* | ◆* | ◆* | ◆* | ◆* |
| JSV | ◆ ^x | ◆ ^x | ◆ ^x | ◆ ^x | ◆ ^x | ◆ ^x | ◆ ^x | ◆ ^x |
| CVR | | | | | ◆ [#] | | | |
| Publish to TruView Cloud | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| Publish to JetStream Enterprise | ◆ ^x | ◆ ^x | ◆ ^x | ◆ ^x | ◆ ^x | ◆ ^x | ◆ ^x | ◆ ^x |

| OTHER GENERAL CYCLONE FEATURES |
|--|
| Metric or imperial units of measure |
| Decimal Degrees or Degrees, Minutes, Seconds angular units of measure ⁸ |
| Bearing unit of measure for Azimuth of Resection ⁸ |
| Simultaneous view of video image and scanned data image ⁸ |
| Customisable, exchangeable user interface: hotkeys, toolbars ⁸ |
| 64-bit large number support |
| 64-bit graphics support |
| Continuous auto-save |
| Undo/Redo ⁸ |
| Client/server object database foundation ⁸ |
| Multi-threading to take advantage of multiple processors |
| Hierarchical project layout |
| Flexible license support |
| Terminal Services support ⁸ |
| Multi-user profile configuration management ⁸ |
| Incremental, intelligent loading of 3D models ⁸ |
| Parametric objects ⁸ |
| Online help |
| Adjust Capture Settings of BLK360 |
| Scan Density (High, Medium, Low) |
| Image Quality (HDR or LDR) |
| Image Exposure (EV-5 to +5) |
| Set capture button delay (up to 60 seconds) ⁸ |
| Delete scans from BLK360 |
| Check Battery level of BLK360 |
| Check internal storage availability of BLK360 |
| Check Serial Number of BLK360 |
| Check Firmware Version of BLK360 |
| Set time on BLK360 internal clock |
| Proscan Calibration (Cyclone REGISTER only) |

Minimum specification:

| | |
|------------------|--|
| Processor | Dual core processor running at 2.5GHz |
| RAM | Minimum 8 GB or more for 64-bit OS |
| Operating System | Windows 7 (64 bit) or Windows 10 (64 bit) |
| Graphics | Support for OpenGL 3.3 or higher with 1GB video memory |
| Hard Disk | At least 1GB of free disk space required for install |

Note: This spec is recommended only for viewing and/or working on smaller projects.

Recommended specification for Workstation:

| | |
|------------------|--|
| Processor | Latest i7 quad core or equivalent at 3.5GHz or higher |
| RAM | 64 GB |
| Operating System | Windows 7 (64 bit) or Windows 10 (64 bit) |
| Graphics | NVIDIA GTX 900 or 1000 series with 8GB of video memory, or NVIDIA Quadro P5500 or equivalent |
| Hard Disk | Internal SSD drives. One for writing and one for reading. |

Note: To ensure the best performance, it is recommended that you install the latest graphics card drivers from the manufacture's website.

Note: This spec is recommended when working with Cyclone REGISTER, MODEL, SURVEY and Cyclone REGISTER 360.

Customer Care Package (CCP) Information:

| | |
|----------------------------|---------------|
| Cyclone 9.4 | April 1, 2019 |
| Cyclone REGISTER 360 1.6.2 | April 1, 2019 |

Leica Geosystems – when it has to be right

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