Leica Cyclone BASIC 9.0
Comprehensive laser scan software for field & office

Powerful yet affordable 3D point cloud visualisation, measurement, mark up, and data exchange software for professionals.

Leica Cyclone BASIC provides professionals with a set of tools for efficiently managing and executing laser scanning/High Definition Surveying (HDS) projects. Professionals can collect and analyse laser scan data, while collaborating for better informed project decisions.

In the field, Cyclone BASIC operates time-of-flight and phase-based Leica Geosystems scanners. Users can manage scan parameters, scan target acquisition, field QA, digital imaging, geo-referencing and more depending on scanner capabilities.

In the office, Cyclone BASIC provides viewing and navigating of point clouds and 3D models, as well as measurement and mark up/redlining. Cyclone BASIC is a versatile back office data exchange module, supporting imports and exports of a wide range of formats.

Features and Benefits
- Operates time-of-flight and phase-based Leica Geosystems scanners
- Powerful, smooth 3D fly-through navigation
- Measurements between scan points and/or modelled surfaces
- Mark up scan images with redline tools
- Field geo-reference, auto-registration, traverse, resection, and known point set up*

- when it has to be right

Leica Geosystems
Leica Cyclone BASIC 9.0
Point cloud scanning, visualisation, measurement, mark up and data exchange

Powerful 3D Navigation and Visualisation
Cyclone BASIC lets users work efficiently with rich laser scan data sets and for improved comprehension of point clouds, advanced visualisation modes allow users to see “through” walls, apply shaded rendering, enhance edge display and more. Additional visualisation tools such as layers and 3D Limit Boxes allow users to efficiently focus on specific areas of laser scan and model data.

Users can smoothly fly through and around point clouds, as well as pan, zoom, and rotate views. Cyclone’s Level of Detail graphics display engine provides highly efficient 3D visualisation and manipulation of even the largest point clouds and models.

Scan Data Management, Measurement and Mark up
Import scan data from virtually any scanner and export in popular formats as needed. After import, users can access a rich set of tools for measuring directly between selected scan points and/or modelled surfaces. Measurements stored during one session can be recalled later and managed. Users can also easily mark up scan images with redline tools to effectively communicate with others. Redline Manager allows users to handle multiple mark ups at once, including providing appropriate view points for individual redlines.

Comprehensive Scanner Control Plus Versatile Field Survey Options
Leica Cyclone BASIC offers simple and advanced scanner control. Smart-Scan Technology™ provides fully adjustable, horizontal and vertical scan density control. Scripting allows different parts of a scene to be automatically scanned at different scan densities. Traditional traverse methods are supported including side shots. Traverse editor supports non-sequential station set ups and full reconfiguring and management of traverse data in the field and office. Targets are recognised and extracted and QA checked.

Leica Cyclone BASIC Specifications*

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<th>Controls</th>
<th>Vertical &amp; horizontal scan density control</th>
<th>Scripting capability for automatic sequencing of scans</th>
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<td>Acquire and display digital image (scanner with internal or external camera)</td>
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<td>Control color mapping using intensity, true-colour, grey scale, colour by elevation, etc.</td>
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<td>Hardware</td>
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<td>Import</td>
<td>Data from CAD via COE (Cyclone Object Exchange)</td>
<td>Control data from ASCII formats &amp; X-Function DBX</td>
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<td>Export</td>
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<td>Point data in special formats: PTZ, ZFS, TOPO pci &amp; cwf Image and model data: COE, BMP, JPEG, TIFF</td>
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* Reference the Leica Cyclone 9.0 Technical Specifications document for a complete listing of product specifications.
** Some systems may not support Windows Vista’s Desktop Windows Manager (DWM) with Leica Cyclone and must be operated in Windows Classic Look.
*** Can only borrow or be a floating license client.

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