

# Leica Cyclone PUBLISHER 9.1 and TruView 3.2

## Free Web Viewer for Scan Data



CYCLONE

Recognisable toolbar icons provide intuitive method of starting mark-up commands

Panoramic viewing of point clouds is completely intuitive

Users can easily control the properties of mark-ups like colour or font size



Users launch panoramic TruView from yellow scanner icons on sitemap

Placing measurements, text, circles, squares and arrows is easy and intuitive.

### Publish laser scans for intuitive viewing and measurement over the internet or via local PC files.

Free Leica TruView software is for anyone who wants to view, measure or markup rich, laser scan point clouds. All that is needed are access to file sets made by Leica Cyclone PUBLISHER and a free license of Leica TruView. Access, viewing, measurement and markup can even be done via Internet!

Using Leica TruView is intuitive – no skills in laser scanning, CAD, or 3D are needed. TruView provides panoramic images of High-Definition Surveying (HDS™) point clouds on your computer as if you were standing at the laser scanner position.

Users can easily pan, rotate and zoom and have access to an intuitive set of mark up and measurement tools. TruViews can

also contain Hotlinks, specialised mark ups that can contain hyperlinks to predetermined documents or applications. Users can create these links in Cyclone and have them published along with the TruView data. This provides an asset data integration capability.

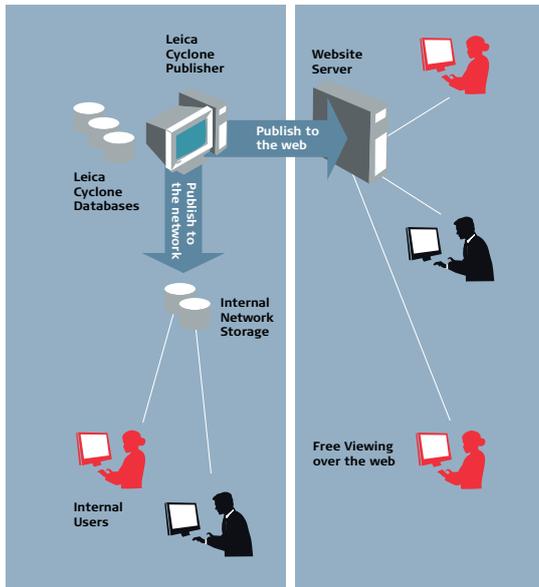
### Features and Benefits

- New! Publish TruView positions from any user-created Cyclone camera position
- New! Create Cyclone camera positions from point-of-view with height option
- View TruView file sets locally or via the web
- Use high resolution images and true colour point clouds
- Full mark-up capabilities
- Within views, incorporate hyperlinks to asset information
- Include 3D models in TruView scenes
- Free download: [www.leica-geosystems.com/hds](http://www.leica-geosystems.com/hds)

- when it has to be **right**



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Leica Cyclone Publisher is used to compress point cloud data and create panoramic images with accurate measurable data for viewing and mark-up with the free TruView Internet Explorer plug-in. This data, much like PDF, can be made available on an internal network, over the web or distributed on a CD or DVD. The TruView plug-in makes accessing this data easy for any class of user with no training required.

## Simple to View & Measure via Web or via Local Files

Point cloud data, 3D models and predefined hyperlinks are available in a format analogous to Adobe PDF's. Just like using PDF, the reader is free and no formal training is required. Leica TruView enables the same free, easy viewing and measuring via the web or from files stored on your PC, an internal network or from a CD or DVD. Leica TruView is available as a free download from the Leica Geosystems HDS website.

## Data Integration

Utilising the new Geotagging methods in Cyclone MODEL, users can define specific items of interest such as a valve in a plant or a fire hydrant on the street and add annotation attributes, including hyperlinks to this tag. Then during the publishing process, Cyclone PUBLISHER automatically creates these geotags as hyperlinked annotations in every appropriate TruView. Now TruView users have access to data linkage into asset management systems, GIS databases and more.

## Easy Measuring, Mark-ups and Hyperlinks

In TruView, users can click on a pixel in the image and extract real 3D coordinates or click on two pixels and extract distances. Results appear right on the point cloud image. Mark ups and hyperlinks are also easy to create, save and share with your peers, your service provider, or with clients for more effective communications.

## Versatile Publishing

For web-based sharing and viewing you can easily post TruView data files for immediate access anywhere in the world. Users can also pack up the files and distribute them directly as a file set on a CD or DVD. Point cloud data from Leica HDS and Pegasus scanners or any scanner with ASCII-based output can be published for use with Leica TruView.

## Added Features

In addition to simple viewing, measurement, and mark-up, users can also control units of measure; extract coordinates; use call-out leaders, text, rectangles and circles for markups; save specific views and markups with an associated camera view; and create simple site maps with easy-to-find scanner locations for point cloud viewing.

Leica Cyclone PUBLISHER Specifications*		Hardware and System Requirements
<b>Publishing</b>	Sitemap as HTML with links to TruView image sets Panoramic point cloud & image file sets, optionally including photographic background imagery and/or 3D models for viewing with Leica TruView. Publish the New Geotag and import lists of GeoTags generated from other data sources, such as GIS or asset management database systems.	<b>Minimum Specifications</b> <b>Processor:</b> 2 GHz Dual Core processor or better <b>RAM:</b> 2 GB (4 GB for Windows Vista or Windows 7) <b>Hard Disk:</b> 40 GB <b>Display:</b> SVGA or OpenGL accelerated graphics card (with latest drivers) <b>Supported operating systems:</b> Windows 7 (32 or 64 bit), Windows 8 & 8.1 (64 bit only), Windows 10 (64 bit only) <b>File System:</b> NTFS
<b>Source/Data Import</b>	Cyclone database	<b>Recommended Specifications</b> <b>Processor:</b> 3.0 GHz Quad Core w/ Hyper-threading or higher <b>RAM:</b> 32 GB's or more 64 bit OS <b>Hard disk:</b> 500 GB SSD Drive <b>Large project disk option:</b> RAID 5, 6, or 10 w/ SATA or SAS drives <b>Display:</b> Nvidia GeForce 680 or ATI 7850 or better, with 2 GB's memory or more <b>Operating system:</b> Microsoft Windows 7 – 64bit <b>File system:</b> NTFS
<b>Export</b>	Image data: BMP, TIFF, JPEG, PNG Ortho Image, GeoTIFF, TWF (World File) TOPO pci & cwf Store in JetStream ProjectVault**	
Leica TruView Specifications		Hardware and System Requirements
<b>GeoTags</b>	TruView now supports GeoTags published from Cyclone 8.1.	<b>Processor:</b> 500 MHz Processor or higher
<b>Viewing</b>	From each scanner position, full 360° horizontal and 360° vertical view	<b>RAM:</b> 256 MB RAM or higher
<b>Mark-up</b>	Rectangle and Circle/Ellipse, Leader line with arrowhead, Text, Point-to-point dimension label, Coordinate location dimension label, Mark-up created by "User name" Mark-up stamped with time/date, Mark-up properties control of colour, font, transparency, line thickness, units of measure.	<b>Hard Disk:</b> 20 MB <b>Network card:</b> N/A <b>Display:</b> SVGA or OpenGL accelerated graphics card (with latest drivers)
<b>Hyperlinks</b>	Add hyperlinks to any valid local network application or web linkable location. Hyperlinking available for all mark-up shapes, leaders and text.	<b>Operating system:</b> Microsoft Windows 7 (32 or 64), Vista (32 or 64), or Microsoft Windows XP (SP2 or higher) (32 or 64)
<b>Saved Views</b>	Automatic per mark-up set, Recallable	<b>File System:</b> N/A
<b>Collaboration</b>	Saved views and mark-up sets import/export, Default property settings import/export	

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\* Reference the Leica Cyclone 9.1 Technical Specifications document for a complete listing of product specifications.

\*\* Enabled if Generator is licensed and configured correctly on JetStream ProjectVault

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