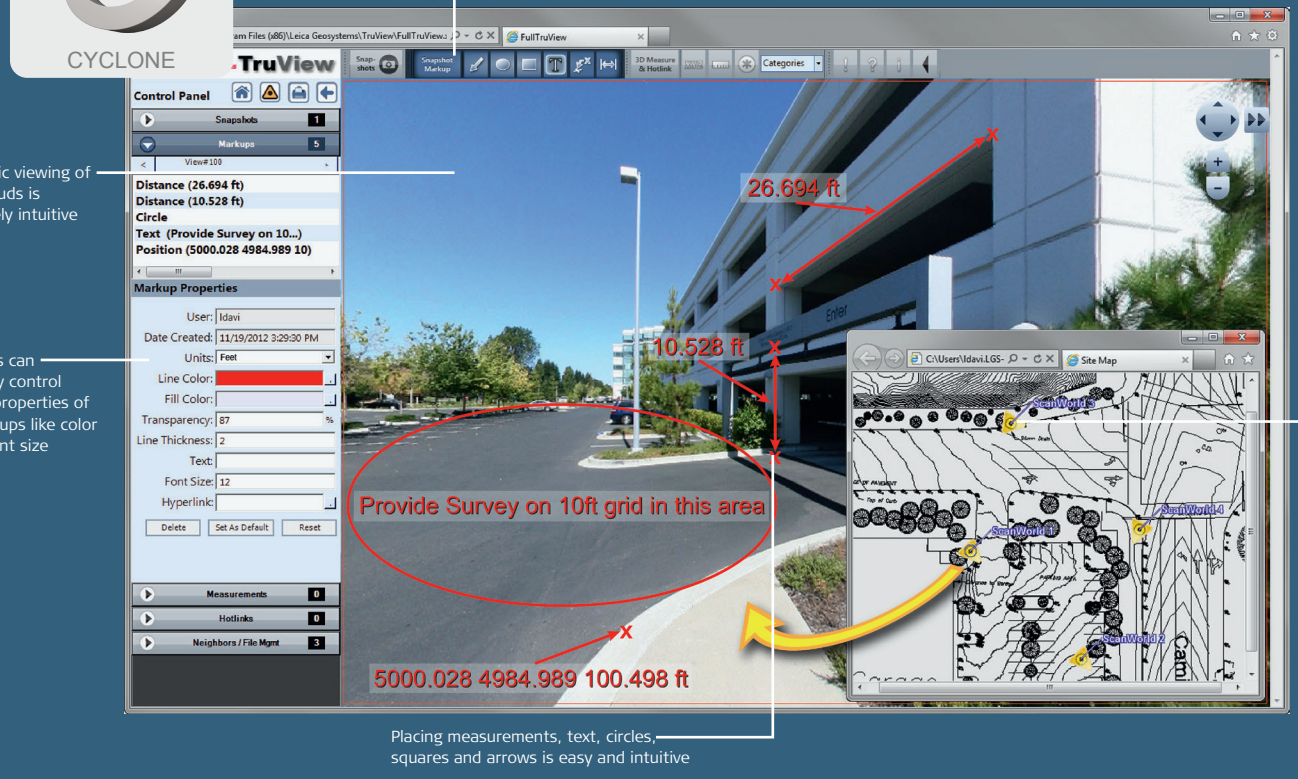
Leica Cyclone PUBLISHER 9.1 and TruView 3.2

Free web laser scan viewer



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 Survey point clouds on your computer as if you were standing where the laser scanner was.

Users can easily pan, rotate and zoom and have access to an intuitive set of markup and measurement tools. TruViews can also contain Hotlinks, specialized markups 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

- View TruView file sets locally or via the web
- Use high resolution images and true color point clouds
- Full markup capabilities
- Within views, incorporate hyperlinks to asset information
- Include 3D models in TruView scenes
- Free download: www.leica-geosystems.com/hds

- when it has to be **right**

Leica Geosystems

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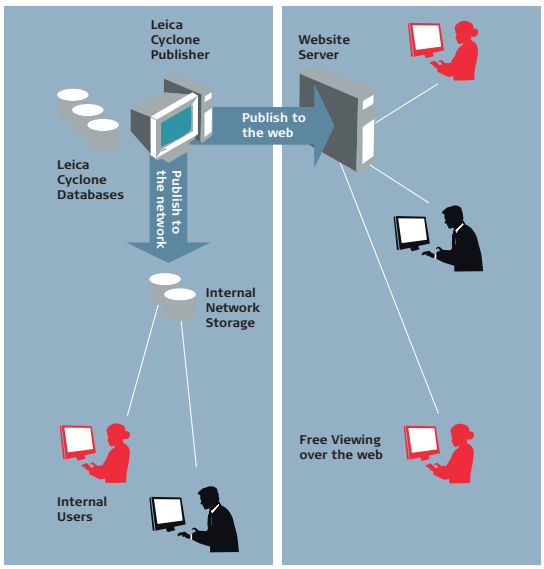

Leica Cyclone Publisher is used to compress point cloud data and create panoramic images with accurate measurable data for viewing and markup with the free TruView Internet Explorer plug-in. This data, much like PDF, can be made available on an internal network, over the web or distributed on a CD or 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

Utilizing 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, Markups 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. Markups 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 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 markup, 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*	
Publishing	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.
Source/Data Import	Cyclone database, ASCII (PTS, PTX), Zoller + Fröhlich ZFS, ZFC, Riegl .3DD
Export	BMP, TIFF, JPEG, PNG, Ortho Image, GeoTIFF, TWF (World File)

Hardware and System Requirements
Minimum Specifications **Processor:** 2 GHz Dual Core processor or better **RAM:** 2 GB (4 GB for Windows Vista or Windows 7) **Hard Disk:** 40 GB **Display:** SVGA or OpenGL accelerated graphics card (with latest drivers) **Supported operating systems:** Windows 7 (32 or 64), or Windows 8 & 8.1 (64bit only) **File System:** NTFS **Recommended Specifications** **Processor:** 3.0 GHz Quad Core w/ Hyper-threading or higher **RAM:** 32 GB's or more 64 bit OS **Hard disk:** 500 GB SSD Drive **Large project disk option:** RAID 5, 6, or 10 w/ SATA or SAS drives **Display:** Nvidia GeForce 680 or ATI 7850 or better, with 2 GB's memory or more **Operating system:** Microsoft Windows 7 – 64bit **File system:** NTFS

Leica TruView 3.1 Specifications	
GeoTags	TruView now supports GeoTags published from Cyclone 8.1.
Viewing	From each scanner position, full 360° horizontal and 360° vertical view
Markup	Rectangle and Circle/Ellipse, Leader line with arrowhead, Text, Point-to-point dimension label, Coordinate location dimension label, Markup created by "User name" Markup stamped with time/date, Markup properties control of color, font, transparency, line thickness, units of measure.
Hyperlinks	Add hyperlinks to any valid local network application or web linkable location. Hyperlinking available for all markup shapes, leaders and text.
Saved Views	Automatic per markup set, Recallable
Collaboration	Saved views and markup sets import/export, Default property settings import/export

Hardware and System Requirements
Processor: 500 MHz Processor or higher **RAM:** 256 MB RAM or higher **Hard Disk:** 20 MB **Network card:** N\A **Display:** SVGA or OpenGL accelerated graphics card (with latest drivers) **Operating system:** Microsoft Windows 7 (32 or 64), Vista (32 or 64), or Microsoft Windows XP (SP2 or higher) (32 or 64) **File System:** N\A

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

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www.leica-geosystems.com/hds

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