Leica Cyclone PUBLISHER 9.1 and TruView 3.2

Create web-ready views of scanner data

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 mark-up 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 mark-up 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 GeoTags, specialized mark-ups that can contain hyperlinks to predetermined documents, applications, or web URLs. Users can create these links in Cyclone and have them published along with the TruView data. This provides capability to integrate asset data.

Features and Benefits

- Publish TruView datasets with viewer positions from ScanWorlds or user-created positions
- User-created viewer positions can be derived from user-created camera positions or user-defined intervals along a Leica Pegasus project's trajectory track
- Publish directly to TruView Global .tvg format for easy drag-and-drop to TruView Global servers***
- View TruView file sets locally or via the web
- Publish and use high-resolution 4K images and true color point clouds
- Full mark-up capabilities
- Within views, incorporate hyperlinks to asset information
- Include 3D models in TruView scenes

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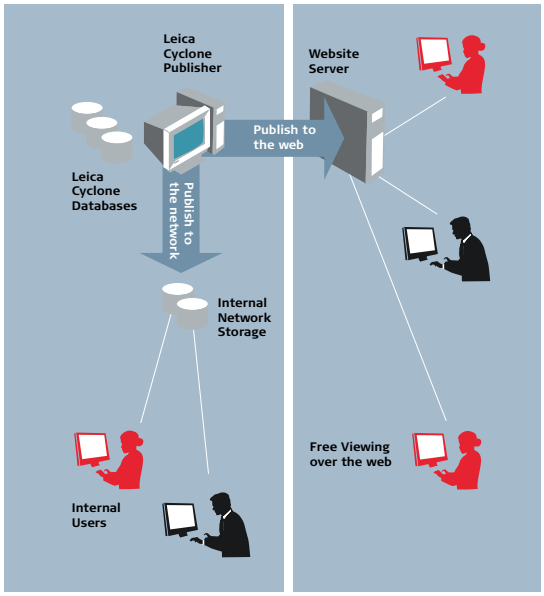

Leica Cyclone Publisher is used to compress point cloud data and create panoramic images with accurate measurable data for viewing and mark-up with the free TruView Internet Explorer plug-in. This data, much like PDF, can be made available on an internal network, over the web or distributed on a CD or 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. TruView is available as a free download from the Leica Geosystems 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, 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 Geosystems HDS and Pegasus scanners or any scanner with ASCII-based output can be published for use with 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 mark-ups 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	Sitemaps as HTML with links to TruView image sets. TVG files for easy drag-and-drop to TruView Global servers*** Panoramic point cloud and image file sets, optionally including embedded 3D model information. Publish Cyclone created GeoTags as part of the dataset, and/or import lists of GeoTags generated from other data sources such as GIS or asset management databases. Support for high-resolution 4K images
Source/Data Import	Cyclone database
Export	Image data: BMP, TIFF, JPEG, PNG Ortho Image, GeoTIFF, TWF (World File) TOPO pci & cwf Store in JetStream ProjectVault**

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 bit), Windows 8 & 8.1 (64 bit only), Windows 10 (64 bit 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 Specifications	
GeoTags	TruView now supports GeoTags published from Cyclone 8.1 or newer.
Viewing	Full-dome 360° by 360° view from each TruView position (scanner positions, or user-defined positions)
Mark-up	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 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 mark-up shapes, leaders and text.
Saved Views	Automatic per mark-up set, Recallable
Collaboration	Saved views and mark-up 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.
** Enabled if Generator is licensed and configured correctly on JetStream ProjectVault
*** TruView Global software license required. More information online at http://leica-geosystems.com/products/laser-scanners/software

Leica Geosystems AG
leica-geosystems.com

- when it has to be **right**

Leica Geosystems