

FARO® Laser Scanner Focus^{3D}

The Perfect Instrument for 3D Documentation and Surveying



FARO® Laser Scanner Focus^{3D} X Series

Fast and exact indoor and outdoor measurements.
Simply at your fingertips!



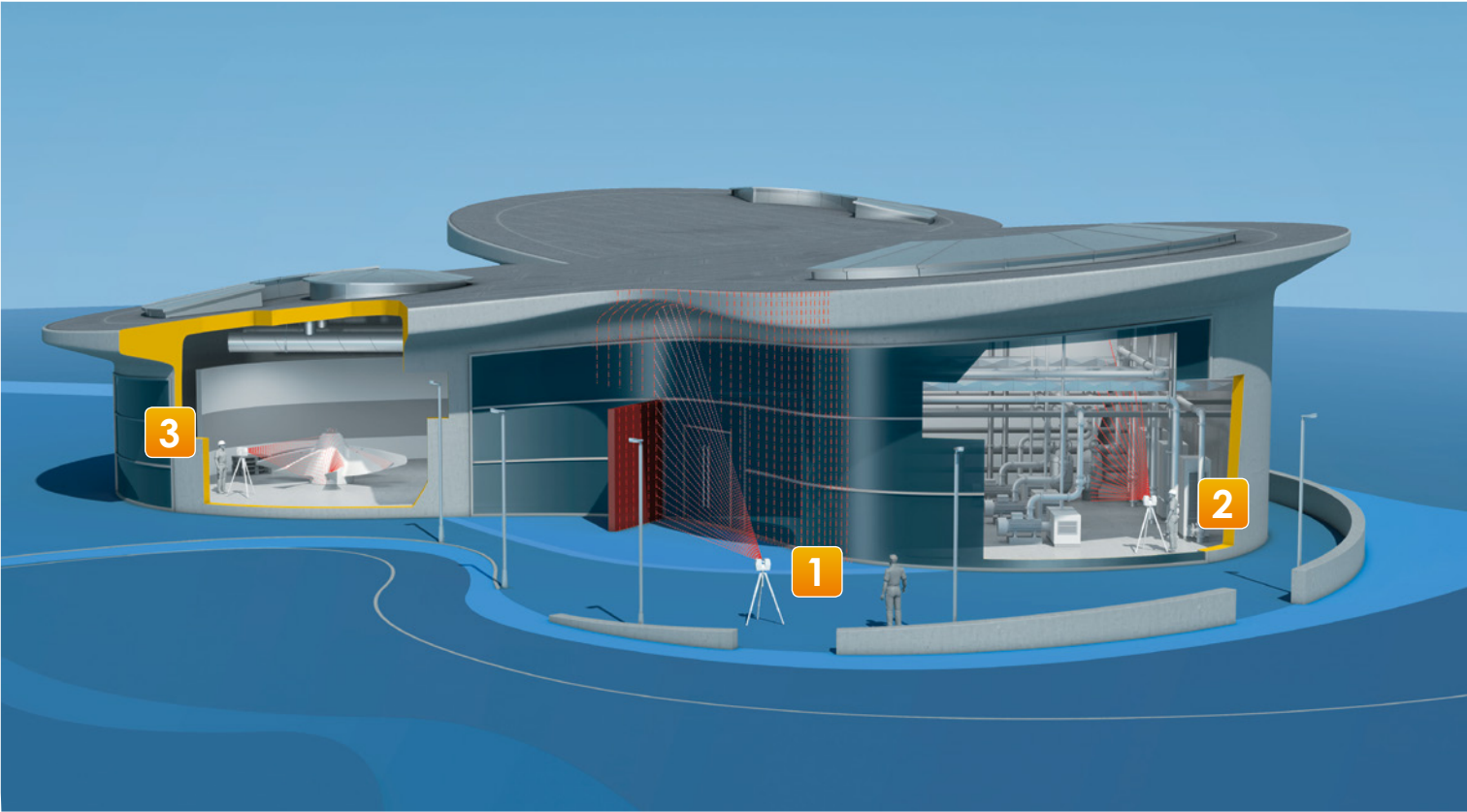
FARO Scan Localizer
On-site registration & processing made easy
More information: Page Accessories (penultimate page)

- ✓ **Xtra range – 30m, 130m and 330m**
Within the X Series, FARO offers its customers the possibility to choose between short, mid and long range laser scanners (30 meters, 130 meters and 330 meters) with the best technology for the lowest price on the market.
- ✓ **Xtra-Safe – with the best laser class**
With the class “1” laser, the Focus^{3D} X Series ensures non-hazardous operation for the user.
- ✓ **Xtra HDR photo overlay**
With the Focus^{3D} HDR functionality, challenging lighting situations will never subtract users’ scan results. Predefined HDR profiles increase the picture quality recorded in very bright or dark environments.

- ✓ **Xtra productivity**
The laser scanner’s xtra range greatly improves the user’s productivity. Distant or large objects, excavations or objects in demanding outdoor terrain can be surveyed with fewer scans and therefore considerably quicker and more accurate than ever before.
- ✓ **Xtra versatile scanning applications**
Ideal for architecture, surveying, BIM, 3D documentation, construction supervision, reverse engineering, historic preservation or forensic crime scene documentation – thanks to its simple controls and compact design, the Focus^{3D} is ideally adapted to all sorts of applications.
- ✓ **Xtra positioning – integrated GPS**
Effortlessly determine the position of the Focus^{3D} X 130 and X 330 scanner. This helps to facilitate the registration process and provides the exact time and location of the users’ scans.

FARO® Laser Scanner Focus^{3D} X Series

One 3D Documentation system – a multitude of applications



1 Scanning of outdoor environments

The Focus^{3D} is well suited to 3D documentation of buildings, building sites, roads and landscape features. Objects within a distance of 330m can be easily recorded - even in full sunlight.

2 Scanning of indoor environments

With the Focus^{3D} it is possible to quickly produce 3D documentations of interiors and technical installations such as building services, conveyor systems or process installations.

3 3D product and component documentation

Whether for inspection of large machine components, during product design or reverse engineering – the Focus^{3D} measures products and components of every possible shape and size and produces precise data and three-dimensional surface models from them.

About the X Series

FARO now offers an ideal solution for measurement every time, everywhere – no matter of time or location. Three ranges 30m, 130m and 330m, and scanning in full sunlight make the Focus^{3D} X Series user capable to perform eye-safe laser scanning in all kinds of environments: surveying sites, construction, architecture, historical preservation or forensics.

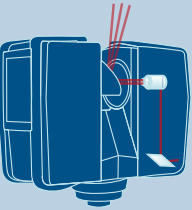
FARO's laser scanner records up to one million measurement points per second and produces a precise, three-dimensional image of its surroundings. With suitable apps in FARO's 3D App Center this image can be analysed and imported into a wide range of software applications.

The increased camera resolution and HDR functionality delivers extraordinary color overlays for scanned point clouds. This improves the visualization of important details on site.

The fast and accurate laser scanner Focus^{3D} offers everything you might expect from a professional 3D laser scanner – with FARO's established and well-known level of simplicity.

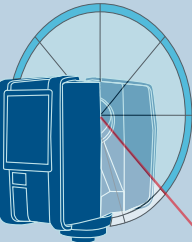
Our brand new, highly convenient data sharing solution: SCENE Webshare Cloud offers the opportunity to easily and securely share your scan data for worldwide presentation and collaboration without the hassle of setting up and maintaining servers and software.

Measurement method



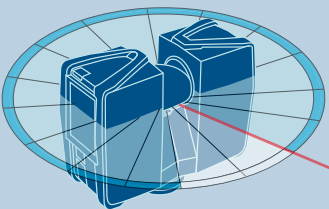
Distance

The scanner uses a laser beam which is reflected back to the scanner by an object. The distance is measured in millimetre-accuracy by the phase-shift between the sending and receiving beam.



Vertical angle

The mirror deflects the laser beam in vertical direction onto the same object. The angle is encoded simultaneously with the distance measurement.



Horizontal angle

The laser scanner revolves 360° horizontally. The horizontal angle is encoded simultaneously with the distance measurement.

Computation of the 3D coordinate

Distance, vertical angle and horizontal angle make up a polar coordinate (d, α , β), which is then transformed to a Cartesian coordinate (x, y, z).

Performance specification Focus^{3D}



Model	Range	Integrated colour camera	HDR	Multi-Sensor	Measurement speed
Focus ^{3D} X 330 HDR	0.6 – 330m	Up to 165 mio. pixel	Yes	GPS Compass Height Sensor Dual Axis Compensator	up to 976,000 points/second
Focus ^{3D} X 330		Up to 70 mio. pixel	No		
Focus ^{3D} X 130 HDR	0.6 – 130m	Up to 165 mio. pixel	Yes		
Focus ^{3D} X 130		Up to 70 mio. pixel	No		
Focus ^{3D} X 30	0.6 – 30m	No	No	Compass Height Sensor Dual Axis Compensator	

Ranging error	Ranging noise	Laser class	Weight	Size	Scanner control
±2mm*	@10m – raw data: 0.3mm @90% refl. @25m – raw data: 0.3mm @90% refl.	Laser class 1	5.2kg	240 x 200 x 100mm	via touchscreen display and WLAN

* Ranging error is defined as a systematic measurement error at around 10m and 25m, one sigma.

BIM / CIM

Architecture and Civil Engineering



Building documentation easier than ever

With the Focus^{3D}, FARO provides architects and civil engineers with an efficient tool for rapid, seamless and precise documentation of the current status of buildings and building sites of every kind.

Weighing just five kilograms, the Focus^{3D} laser scanner is ideal for mobile usage on the building site. It records foundation excavations, building shells and complete buildings in 3D – completely, quickly and cost-effectively.

Applications

Facades inspection: 3D dimensional inspection of building shells and facade components before final assembly.

Structural analysis and maintenance: Rapid and cost effective control of the specified load-bearing capacity of supporting structures as well as wear and tear.

Construction progress monitoring: Seamless capture and monitoring of construction progress for legal and technical documentation.

Built environment: Precise geometrical recording of existing properties as the basis for conversions or extensions.

Free-form components inspection: Precise dimensional check of complex components such as free-form shape elements.

Deformations control: Documentation of deformation processes and monitoring of countermeasures.

Space optimization: By prior creation of 3D models.



Benefits

- ✓ Revolutionary price/performance ratio
- ✓ Photorealistic imaging and 3D visualisation of different concepts of building use
- ✓ Immediate processing of the data in all commonly used CAD programs
- ✓ Simple variance comparison in the construction process and in the case of final building inspections
- ✓ SCENE WebShare Cloud for simple and secure online sharing of scan data via the internet
- ✓ FARO BIM Ready Package for Revit® provides a complete workflow from scan to Revit® models

Surveying



Xpand your horizon!

Industries such as surveying, construction, civil engineering and BIM depend on reliable, fast and accurate data. Information and spacial reference are essential through all phases of surveying and construction projects.

FARO's Laser Scanner Focus^{3D} X Series with integrated GPS and the possibility to scan in direct sunlight offers the user the ideal outdoor solution, smoothing the workflows, making processes faster and more efficient, delivering accurate data and satisfying statutory requirements.

Applications

Scanning of large or distant objects: Due to the xtra long range of the Focus^{3D} X 330, all kinds of high, long or difficult to access objects can be easily scanned and analyzed.

Project supervision: Whenever there are excavations, bridges, towers, open-pit mines, roads, railways, reservoirs, dams, pipelines to be built, there is a need for close monitoring of the individual project phases to meet the project's requirements.

Deformation monitoring: Determining if the surveyed structure or object is changing shape or moving. Saves time and rework during construction.

Large volume calculation: When measuring loose material in bulk, e.g. in barges, silos or in warehouses, large volume determination on a regular basis is an important consideration. Laser scanning allows for fast, accurate and reliable dimensional calculations.

Quality control: Precise laser scanning ensures that the final as-built condition fit design intent and minimizes the chance of potential problems.



Benefits

- ✓ Time-saving, simple and complete recording of the current condition of surveying or construction sites
- ✓ Real-time, digital 3D data capture and analysis of materials, volumes, structures, topography
- ✓ Due to xtra long range, enhanced registration of data and rapid capturing of high resolution data increases users' productivity
- ✓ Precise positioning due integrated GPS
- ✓ FARO AEC Packages provide a complete workflow from scan to 2d and 3D deliverables

Heritage & Archeology



Bringing historical sites back to life

Whether for restoration or scientific analysis purposes, for securing protected buildings or for virtual presentations of historical sites, the FARO Focus^{3D} offers the possibility of complete and detailed 3D documentation of historical structures and excavation sites. Thanks to its integrated colour camera, photo-realistic 3D images can be created instantly.



Applications

- Reconstruction:** Detailed 3D data for reconstruction of lost appearance of components of historical sites or archeological objects.
- Restoration:** Creation of 3D models for restoring purposes preserving the original building substance without the necessity of scaffolding usage.
- Conservation:** Precise 3D CAD documentation for preservation and protection of historical/archeological material and inventory.



Benefits

- ✓ Simple, fast and complete recording of the current condition of heritage sites or archeological objects
- ✓ Digital 3D capturing of complex forms of historic buildings at a high level of detail
- ✓ Enhanced registration of large object data and remote functionality connect multiple data sets accurately
- ✓ An ideal affordable device, particularly when there are no up-to-date construction plans
- ✓ With SCENE and PointSense Heritage FARO provides a complete workflow for documentation of cultural monuments in CAD

Facility and Asset Management



Efficient processes with 3D scans

Three-dimensional building data offers facility managers valuable assistance – from technical facility management through to property management.

The FARO Focus^{3D} provides complete and precise 3D documentation of the current status of buildings and building sites as well as their assets such as power components, machinery and pipe work

With the Focus^{3D} the required data can be recorded with ultimate ease. This scan data can be used for building management, collision detection for retrofits, as-built documentation for CAD modelling and other plant design tasks.



Applications

- Documentation:** The Focus^{3D} accurately records the inventory data that is needed by Facility Managers – be it the structural situation on a production plant or the building services equipment in an office block.
- Planning of structural alterations:** The scan data provides an accurate three-dimensional model of the actual status of the building. As a result Facilities Managers can run through the usage options for rooms even before planning actually begins.
- Replanning of technical modifications:** Changes to technical equipment, such as pipes, air ducts and electrical supply lines, can be depicted and checked in advance in the virtual model. This offers a stable basis for replanning.



Benefits

- ✓ Complete and precise 3D documentation of the current status of buildings and building sites
- ✓ The scan data can be easily integrated with industry-standard CAD programs
- ✓ The optimum basis for the planning and execution of building projects as well as for the management of properties
- ✓ With SCENE and PointSense solutions FARO provides a complete workflow from scan to FMCAD deliverables

Inspection and Reverse Engineering



True magnitude shown in the 3D scan

Particularly in the case of very large or very complex components and shapes, conventional measuring instruments quickly reach their limitations.

With the Focus^{3D}, even these shapes can be precisely captured, inspected and re-engineered.



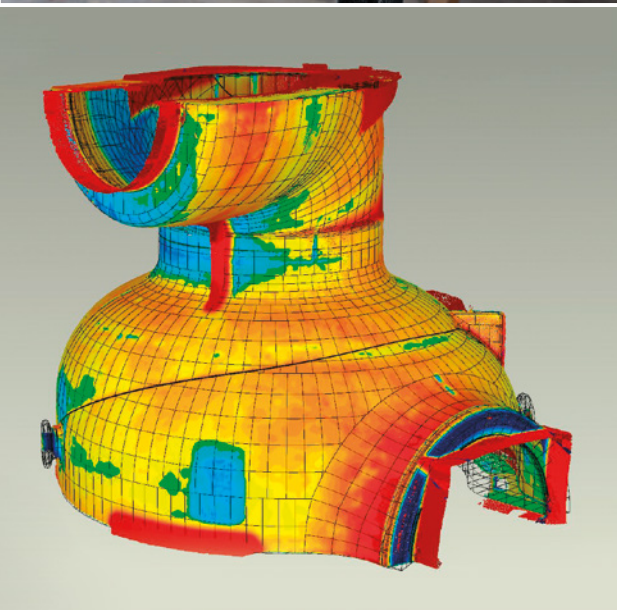
Applications

Reverse engineering: Copies of products and components for which there are no construction plans and/or CAD data available.

Interior fixtures and fittings: Precise 3D CAD documentation of complex interiors of ships, cars or aircrafts as a basis for planning of conversions.

Manufacturing documentation: Complete 3D documentation of the manufacturing status of complex machine components.

Quality control: Precise 3D documentation and dimensional inspection of large and complex components such as rotor blades, turbines, ship propellers, etc.



Benefits

- ✓ Cost-efficient, quick and accurate 3D capture of as-built geometry of large products
- ✓ Automated in-process control of production allow for comprehensive 3D inspection and monitoring of parts
- ✓ Reduced scrap and rework due to early and comprehensive 3D quality control

Process Industry and Digital Factory



Precise 3D data saves time and money

Technical plants like refineries, power plants and production sites are complex structures which require exact 3D CAD data in order to convert, repair or extend them.

With the FARO Focus^{3D} complete and precise 3D as built data can be captured easily, precisely and completely.



Applications

Conversions and extensions: Precise 3D documentation of the current state of the property as the planning basis for conversions and extensions.

Offsite production: Possibility of precise-fit off-site assembly, thanks to exact 3D CAD data and dimensional control.

Asset management: Simplification of facility management and maintenance through comprehensive 3D documentation.

Training: Virtual access to remote facilities allows for off-site training an simulation.

Site supervision: Improved coordination between different trades and comprehensive documentation and supervision of all work.



Benefits

- ✓ Extreme time savings and high fidelity for 3D documentation of complex factory and plant installations
- ✓ Risk minimisation in brownfield projects where access is difficult or expensive and where schedules are tight
- ✓ Brownfield costs can be reduced by 5-7%, contingencies for rework to less than 2%. Schedules can be compressed by as much as 10%
- ✓ Efficient control and monitoring of health and safety as well as environmental regulations
- ✓ FARO Plant Ready Package for AutoCAD® provides a complete workflow from scan to Plant models

Shipbuilding



Tough industrial environments

3D laser scanning is used in naval engineering to aid assembly, and to assist repair and retrofit activities.

To ensure accurately fitting parts, it is necessary to continuously perform measurements in each phase of the production process.



Applications

As-built documentation: 3D laser scanning solutions ensure that ship hulls and components can be digitized when original drawings are missing or inaccurate (as it is often the case with old vessels).

Ballast Water Treatment (BWT) retrofit: Upcoming legislation requires the installation of Ballast Water Treatment systems onboard all ocean-going vessels. 3D laser scanning can overcome challenges such as measuring the limited space in engine rooms, and capturing reliable data for the retrofitting installation process.

Ship repair: Providing a fast and accurate way to inspect ship parts during repair, 3D laser scanning can be used to verify design specifications to ensure proper fit.



Benefits

- ✓ A fast and reliable technology to capture complex as-built situations in engine and pump rooms
- ✓ Complete 3-dimensional information of the actual conditions
- ✓ Risk minimization in projects where access is difficult and schedules are tight

Public Safety Law Enforcement & Forensics



Built for the field

The fast and accurate Focus^{3D} is an ideal tool suited to performing rapid and complete 3D recordings of crime and accident scenes, insurance damage or passive car safety testing. The scanner converts weeks work into hours.

All details of relevance in any subsequent reconstruction of the crime or accident are covered. Similarly, in order to develop appropriate safety concepts for events, laser scans deliver the relevant 3D topography information.



Applications

Crime scenes investigation & analysis: Complex and timely investigations made easier and faster by the Focus^{3D}.

Bullet path reconstruction: Quick and accurate reconstruction of bullet paths made possible by combining traditional investigative methods with cutting-edge laserscanning technology.

Crash investigation & analysis: Handling, investigating and analyzing road incidents, their cause and impact made fast and reliable using FARO laser scanners.

Passive safety of cars: Reducing consequences of accidents with laser scanner tested passive safety systems can be vital for passenger survival.

Fire Investigation: Detailed fire scene reconstruction.



Benefits

- ✓ Fast, accurate and reliable data
- ✓ Authentic, complete and precise 3D copy of reality
- ✓ Reproducible 3D documentation at your fingertips
- ✓ Easy conversion of captured scenes to orthophotos and CAD

Our Public Safety Solutions

www.faro.com/products/faro-software



Public Safety Hardware Solutions – Preserve the Evidence

FARO Laser Scanner Focus3D^{3D}

The ultra-portable laser scanners Focus3D X-series enable fast, straightforward, and accurate point cloud data of crime and crash scenes. The Focus3D records and preserves critical evidence from crime and accident sites, up to 330m, by combining the highest-precision scanning technology with mobility and ease-of-use.

- Scan up to 330m and capture up to one million pts/s
- Capture a 360 degree scan
- Create a 3D point cloud, ideal for taking measurements and creating diagrams
- High effectiveness in documenting scenes either in very low light and/or direct sunlight
- Easy positioning with the integrated GPS receiver

FARO Scanner Freestyle3D^{3D}

The FARO Freestyle3D Scanner, a handheld scanner, provides a fast and easy scanning solution with verifiable accuracy of the 3D color scan data. With the largest scan volume on the market for a handheld device, the Freestyle3D reduces scan time in the field.

FARO Forensic ScanArm

The Forensic ScanArm is a portable, non-contact 3D scanning solution tailored for forensic anthropology, crime lab, and medical examiner applications.



Public Safety Software Solutions – Fire Investigation

FARO® FireZone 10 has all the tools fire service professionals need to create diagrams for fire investigation, pre-incident planning, post-incident critiques, and training. Features specifically for fire investigators make it fast and easy to create 2D and 3D diagrams of a fire scene, show wall elevations, fire origin, char, smoke, and direction of fire travel. Use satellite maps and thousands of pre-drawn, fire service symbols to quickly create pre-fire plan diagrams, post-incident critiques, and training diagrams.

- Full realistic 2D and 3D documentation of fire scenes in a point cloud
- Comprehensive collection and digital preservation of the circumstantial and physical evidence of the fire
- Allows accurate and compelling 3D diagrams of fire scenes
- Displays of doors, windows, furniture, cabinets, fire origin, and evidence placards by placing symbols in the 2D diagram, and clicking one button to view the symbols in 3D
- Shows flame vectors, char and smoke damage by placing texture and patterns
- Quick creations of accurate “exploded room” diagrams with the Wall Elevation Builder
- Shows the extent of fire damage in 3D to furniture, cabinets, appliances, etc.

Our Public Safety Solutions

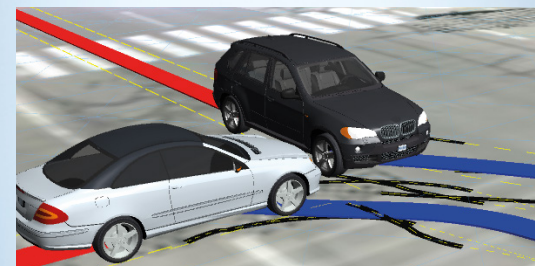
www.faro.com/products/faro-software



Public Safety Software Solutions – Crime & Crash INVESTIGATION

For more than two decades, FARO CADZone has been the drawing program of choice for police investigators, accident reconstructionists and law enforcement officers who need to accurately and realistically draw and map crime and crash scenes in 2D or 3D. The latest versions of the software have even more tools for investigators, including faster rendering of animations and images, intuitive interfaces, international symbols and even trajectory cones that provide better depth and measurement.

- Complete forensic diagramming package with analysis tools
- True 3D drawing functionality with 2D to 3D multi-window option
- Virtual walk-through of a crash or crime scene from any angle in 2D or 3D
- High resolution 3D graphics
- True 3D, vector-based CAD application
- Easy conversion from 2D to 3D view
- Enhanced renderings with realistic satellite image backgrounds
- Bullet trajectory cones to show the user's uncertainty factor
- Measurements for skid, momentum and critical speed analysis



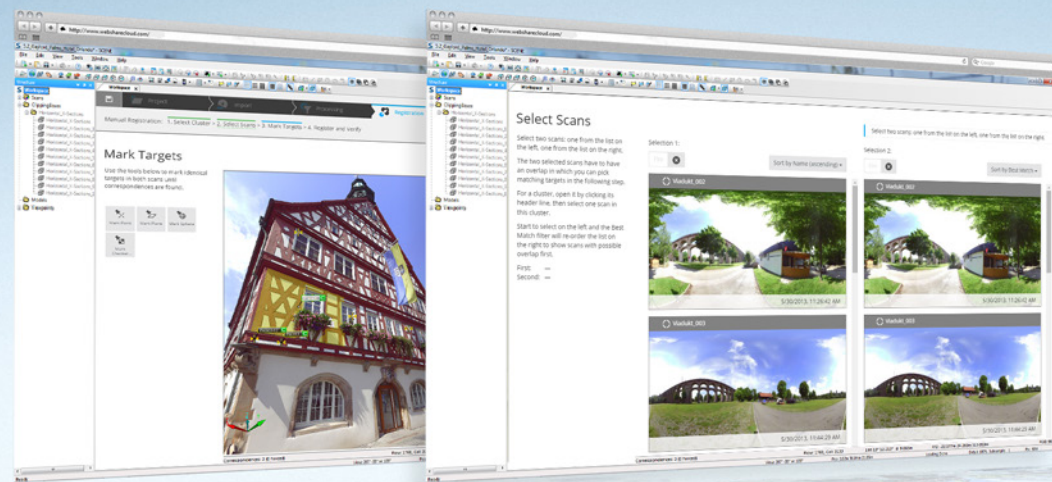
Public Safety Software Solutions – FARO Reality®

FARO Reality makes it possible for forensic investigators to perform extensive analysis and create compelling courtroom exhibits. The software's intuitive tools allow creation of 2D crash simulations and 3D animations with multiple collisions, including lighting control, vehicle suspension, weather effects, human body animations, and more.

- Import measurement data in standard file formats from laser scanners
- Create 2D and 3D diagrams using the comprehensive library of predrawn symbols
- Animate objects within a point cloud for full 3D immersion
- Quickly generate 3D animations along curvilinear paths with multiple impact points
- Establish moving and tracking cameras to capture more realistic animation recordings
- Model vehicle crush and synchronize damage to display at impact points in the animation
- Create realistic 3D scenes/diagrams by integrating 3D terrain data from Google Earth™
- Detailed 3D human models can be posed to match a body found at the scene, including multiple anatomical layers

SCENE

SCENE WebShare Cloud & App Center



Intuitive User Interface

SCENE features a new intuitive user interface that offers guidance and support for complex tasks. In addition, with improved and automated workflows, now the project transfer (e.g. from SD-Card), scan processing and initial registration can be realized in one single step.



HDR Mapping

The fully automatic HDR mapping function permits to preserve realistic image details and colour appearance within the scan data captured with a Focus3D HDR laser scanner even in challenging lighting situations.



Solid 3D Surfaces Rendering

The new state-of-the-art solid surfaces rendering engine is capable of displaying enormous amounts of scan points with unmatched speed and quality.



Plug-ins for extended functionality

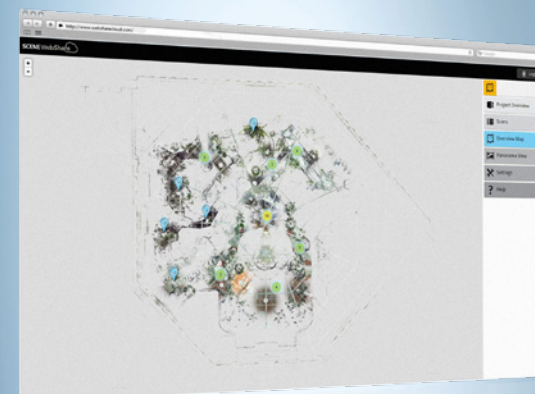
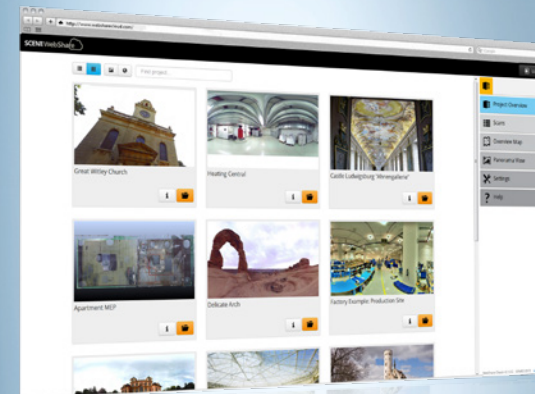
The unique plug-in interface lets the user extend SCENE's functionality by installing additional apps. All available apps can be found on the FARO 3D App Center.



Real virtuality software

SCENE is specifically designed for all FARO laser scanners. The software processes and manages scanned data both efficiently and easily by using the automatic object recognition and scan registration.

SCENE is an extremely user-friendly software that allows scans to be automatically combined. The resulting point cloud can be viewed in three dimensions. All the scans are available in colour and as high-contrast intensity images.



Data sharing without limits

With SCENE WebShare Cloud, FARO offers a comprehensive service to provide users with simple access to 3D documentation. Neither technical training nor specialist skills in 3D laser scanning are necessary to work with the intuitive user interface.

Digital data, such as 3D documentation, often has to be available to many different project partners. Previously, users had their own internet server, could use SCENE WebShare to present their laser scan projects to clients and project partners. Now FARO goes considerably further, offering the SCENE WebShare Cloud solution, a hosting service with various packages at different prices.



Features

- Easy data sharing and collaboration
- Best possible security level
- Minimal set up and maintenance effort
- Persistent measurements & annotations
- Hosting service offered by FARO
- Support for mobile devices
- 3D viewing

www.websharecloud.com

Our package	
Storage	50GB*
Downloads / month	50GB*
Good for (typical)	500 scans
Assigned users	Unlimited
3D Conversion for 3D viewing per month	100 scan positions*

* Additional requests will be charged according to requirements.

App Center



The FARO 3D App Center!

In the 3D App Center you will find software dedicated to the FARO 3D Documentation world. The shop is divided into two main categories: Stand-alone apps and plug-in apps.

3d-app-center.faro.com



PointSense Autodesk® Applications

Industry Solutions

PointSense Industry Solutions

With PointSense industry solutions point clouds are analyzed, manipulated and modeled directly within Autodesk® design programs. PointSense Applications are compatible with data from most scanner manufacturers making them hardware independent.

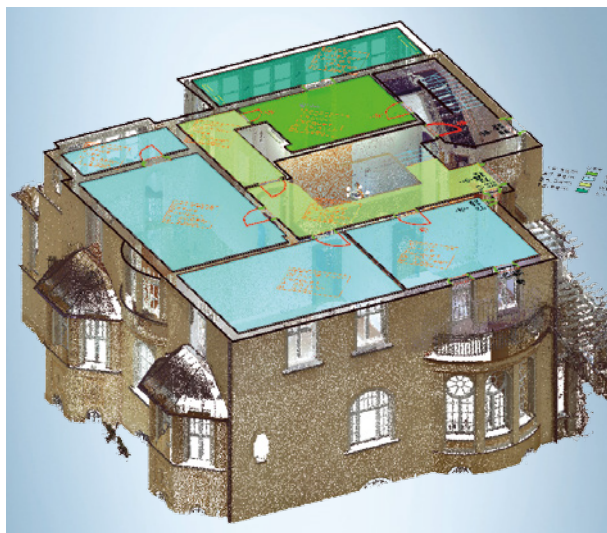


PointSense Pro

Essential 3D point cloud tools within AutoCAD®

PointSense Pro provides several advanced tools for enhancing the management, analysis and modeling of native laser scan data within AutoCAD®.

- Automated fitting of polylines, cylinders and planes to point cloud sections
- Advanced scan navigation and visualization
- Ortho images with ClearView functions
- Clash detection analysis between scan and drafted CAD objects
- Deformation analysis and ground point extraction

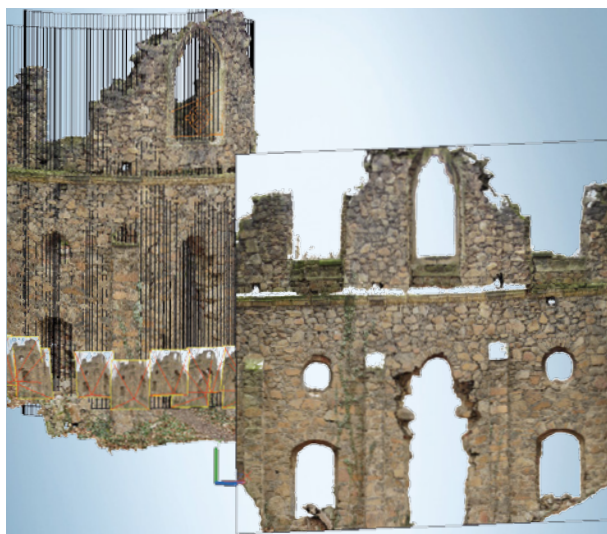


PointSense Building

From 3D laser scanner data to 2D plans

PointSense Building streamlines the extraction of accurate 2D floorplans and elevations from 3D scans in AutoCAD®, e.g. for property planning, facility management, interior design or special construction such as shipbuilding.

- Intuitive construction of 2D sections with automatic line extraction
- Specialized drawing and dimensioning commands for building elements such as windows, doors, staircases, etc.
- Database driven area management tools
- Deformation tools for floor and façade analysis



PointSense Heritage

Photogrammetry and laser scans in AutoCAD®

PointSense Heritage is suitable for the documentation of historical monuments in conservation, historic building research and the recording of complex three-dimensional excavations in archaeology.

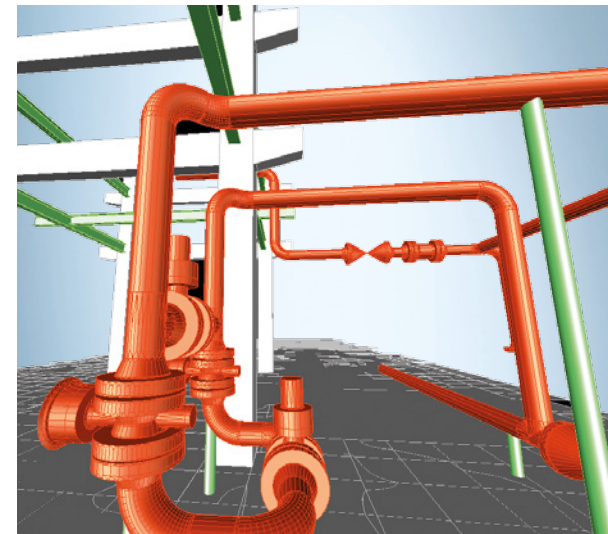
- Photogrammetric functions combined with essential point cloud design tools
- Calculation of true ortho photos
- Generation of detailed image mosaics through unwrapping of point clouds and photos of towers, arches, ceiling frescoes, façades etc. into a plane

PointSense & VirtuSurv

Autodesk Applications & Standalone programs

FARO AEC Solution Packages

FARO AEC Solution Packages bundle the Focus3D scanner, SCENE and PointSense industry solutions. In this way FARO provides a seamless workflow from as-built data capture to deliverable of 2D plans and 3D models.

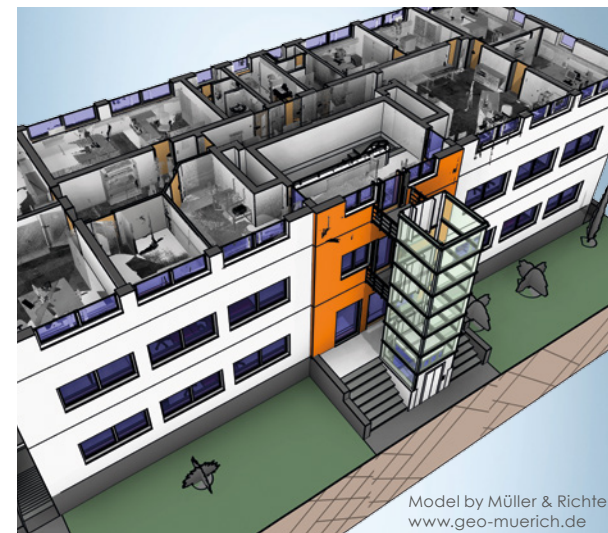


PointSense Plant

Intelligent Plant Design from Scan Data in AutoCAD®

FARO PointSense Plant provides tools for pattern recognizing plant assets from point cloud data giving designers the ability to move directly into their familiar AutoCAD® based plant design programs (Plant 3D, MEP, CADWorx, AutoPlant, etc.).

- Intuitive steps for modeling or deriving tie-in points for piping systems and steel construction
- Catalog driven pattern recognition using industry standard components or user created fittings
- Support for insulated pipe runs



Model by Müller & Richter
www.geo-muerich.de

PointSense for Revit®

From Laser Scans to Revit® Models

Modelling and detailing BIM elements with point clouds in Revit®: Ground surfaces, walls, doors, windows, stairs, columns, beams, pillars, roofs and many more.

- Tools for automatically fitting and aligning walls and Revit® work planes in point clouds
- Create directly in the point cloud using 3D construction aids and real 3D point snap.
- Calculate from ortho images directly in the Revit® project
- Process scan data in the Revit® families editor



VirtuSurv

Evaluation of laser scan data with or without CAD

VirtuSurv is FARO's standalone software for working with highly visual laser scan data. The program supports the import, export and display of numerous structured scan data formats.

- Fill in forms and databases with coordinates and distances directly sent from the scan view
- Draw directly to your familiar CAD by sending coordinates and commands
- Supports AutoCAD® (LT), BricsCAD, SEMA, Rhino, IntelliCAD, Cadwork...

Accessories

You are in good hands



FARO Scan Localizer



On-site registration & processing made easy

The FARO Scan Localizer is a state-of-the-art scanning accessory, which combines information of multiple sensors sources and software algorithms to determine the exact position of the laser scanner inside buildings.

While moving a FARO laser scanner through a large site, the FARO Scan Localizer will capture the exact position of the laser scanner thus enabling error-free, fully automated registration. With this new workflow, users will be able to complete the whole scan and registration process on site, substantially reducing the need for time-consuming back office work and quality checks by a factor of 2 to 5 times.

The fully portable system is compatible with the complete line of Focus^{3D} laser scanners and enables highest performance due to its indoor positioning without GPS signal, real-time 3D and disjoint scan data registration, easy on-site navigation, ease-of-use and remote control via integrated WLAN.



Suitcase / backpack



True mobility

In addition to a waterproof and extremely sturdy Pelicase with lots of compartments for important accessories, a light and elegant Rimowa case and an ergonomically designed backpack including tripod holder are also available.

Adapters



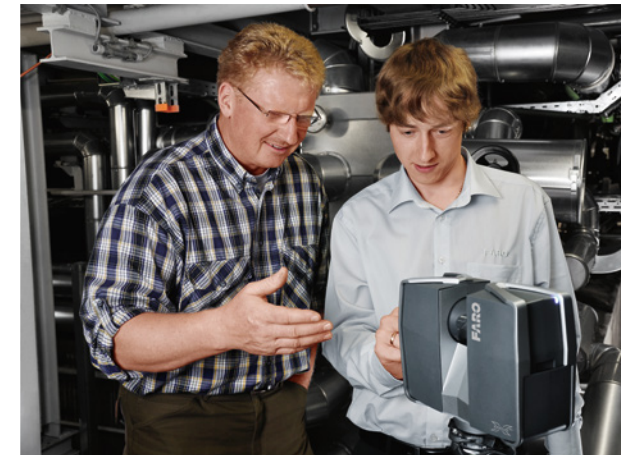
Secure grip

Panorama Adapter Quick Release

Fits to standard photo tripods with 3/8" screw and surveyor tripods with 5/8" screws

TMS Adapter

With its two standard "wild-studs", TMS adapter can hold two prisms. The prisms support the quick survey of the scanner position.



Learn more



Discover the possibilities

The Focus^{3D} has an intuitive control concept, enabling even inexperienced users to get started straight away. Valuable tips and suggestions are to be found in a training video that can be watched on the touchscreen of the scanner. However we also offer workshops, seminars and training courses for specific applications and tasks. In these, we teach you how you can use your Focus^{3D} even more effectively.



Customer service



Always there for you

Phone: Our customer service staff are available from 8am to 5pm (CEST) from Monday to Friday.
Free call number: 00 800 3276 7378
E-Mail: support.emea@faro.com
Online-Support Center: www.faro.com/support
On-site: Our application engineers will help you on-site.

Service contract

The service contract includes maintenance, inspection and calibration by our experts. In addition, customers with a service contract will receive a 10% discount on all accessories and free re-certification, repair and advice.

SCENE Software compatibility



The Focus^{3D} and its SCENE software are compatible with the most common CAD software applications. SCENE can be used to export scan data to over 50 common software solutions, such as:

- General CAD: AutoCAD, Microstation, Rhino
- Plant construction: AVEVA PDMS, Intergraph PDS, AutoCAD Plant 3D, Microstation, Rhino
- Architecture: AutoCAD Architecture, REVIT
- Civil engineering / Surveying: AutoCAD Civil 3D, PolyWorks Surveyor, Carlson, Microsurveys
- Heritage: 3D Reconstructor
- Quality control: Geomagic Qualify, PolyWorks Inspector, Rapidform XOV
- Forensics: AutoCAD, SCENE Forensics
- Reverse engineering: Geomagic Studio, PolyWorks Modeler, Rapidform XOR
- Tunnelling: RR Tunnel, TMS
- Visualization: Pointools
- For maximum compatibility with Autodesk® products check out our seamless integration into CAD and BIM workflows with FARO PointSense industry solutions



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