

FARO[®] Technologies, Inc.

Company Overview

Global Footprint with Local Sensibility



Headquarters are based in Lake Mary, Florida, Korntal-Münchingen, Germany and Singapore. **Subsidiaries** are located in Australia, Brazil, China, France, Germany, India, Italy, Japan, Korea, Malaysia, Mexico, Netherlands, Philippines, Poland, Portugal, Singapore, Spain, Switzerland, Thailand, Turkey, United Kingdom, USA.



Introduction – FARO Company Overview

1981 회사 설립

1995 FaroArm® 출시

1996 유럽 시장 진출

1997 나스닥 상장

2000 FARO Japan 설립, 아시아 시장 진출

2005 FARO 싱가포르 아시아 본부 설립

2010 Focus3D 출시

2015 Freestyle 출시



































FARO® at a Glance

The world's most trusted source for **3D measurement** and **imaging solutions**



FACTORY METROLOGY



PUBLIC SAFETY FORENSICS

PRODUCT

DESIGN











Creating Value for Our Customers

Architecture, Engineering & Construction

PARO DE LA CAMBRIA DE LA CAMBR

- Capture comprehensive, as builts in 3D
- Share as built online with project team
- Detect defects at key points in project lifecycle

Minimize in field documentation time and reduce project risk

Manufacturing



- · Inspect on arrival
- Verify measurements to specs
- Quickly identify defects and take action

Eliminate margin impacting scrap and rework costs

Accident & Crime Scene Reconstruction



- Capture entire scene quickly
- Document, preserve and analyze the scene
- · Deliver the analysis in 3D

Create faster, accurate, permanent documentation and more compelling presentation(s)

New Product Design & Reverse Engineering



- · Digitize the part
- · Build the model
- Confirm/verify model to design intent
- Deliver the product

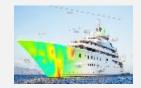
Rapidly execute new designs with low risk



Bringing Value to Life With Solutions



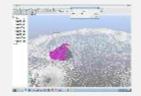
Application-Specific Software



Quality Control and Inspection



Construction QA/QC



3D Point Cloud Registration



FARO® Laser Scanner Focus^S 70/150/350



Accuracy

거리, 각도 측정과 dual axis compensator 관련 향상된 정확도

Temperature

확장된 활용가능 온도범위로 다양한 환경에서도 스캐닝 가능

On-Site Compensation

On-site compensation 을 통해 현장 또는 사무실에서 Focus S의 최고의 스캔 데이터를 보장 가능.

IP Rating - Class 54

IP54 방진방수 등급으로 여러 환경에서 활용 가능

HDR Photo Overlay

HDR camera 를 장착, 상세한 이미지 캡쳐 가능하고 극한의 밝기 변화에도 자연스런 색상 제공

Accessory Bay

추가 악세사리 연결로 사용자별 맞춤 설정 가능.

Specifications







HDR

High Dynamic Range (HDR) photo recording, 2x / 3x / 5x



Ranging error 1

± 1mm at 10m



Range Focus^s 70/150/350

0.6m - 70/150/350m indoor or outdoor



Light Weight

4,2 kg



Measuring Speed

122,000 / 244,000 / 488,000 / 976,000 points/sec



¹ Ranging error is defined as a systematic measurement error at around 10m and 25m, one sigma.

FARO® Laser Scanner Focus^M 70



Short-Range Scanning - up to 70m

단거리 측정 및 소규모 영역에 이상적인 최대 70M 스캐닝 가능한 M70 모델

Compact and Portable

인체공학적 운송 케이스 및 방수 운송 가능으로 휴대성 극대화

HDR Photo Overlay

HDR camera 를 장착, 상세한 이미지 캡쳐 가능하고 극한의 밝기 변화에도 자연스런 색상 제공.

Best Value for Money

가장 높은 가성비를 자랑하는 전문가용 스캐너

IP Rating - Class 54

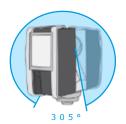
IP54 방진방수 등급으로 여러 환경에서 활용 가능.

Temperature

확장된 활용가능 온도범위로 다양한 환경에서도 스캐닝 가능.

¹ Ranging error is defined as a systematic measurement error at around 10m and 25m, one sigma.

Specifications







HDR

High Dynamic Range (HDR) photo recording, 2x / 3x / 5x



Ranging error 1

± 3mm at 10m



Range Focus[™] 70

0.6m - 70m indoor or outdoor



Light Weight

4,2 kg



Measuring Speed

122,000 / 244,000 / 488,000 points/sec



Focus S – Easy to use

원격으로 작동 가능



간편한 데이터 추출

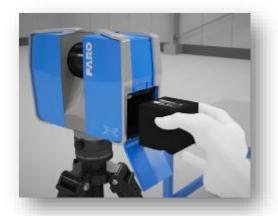


다양한 기법으로 스캔





배터리 구동





FARO® Freestyle^{3D}



Best Value for Money

The Freestyle^{3D} 은 가장 합리적인 가격에 탁월한 성능을 가진 3D스캐너입니다.

Real-Time Point Cloud Visualization

실시간 포인트 클라우드 시각화 기능은 직관적인 데이터 수집을 지원.

Up to 8m3 Scanning Volume

광범위한 스캔 영역으로 생산성 향상.

Automatic Flash

The new auto mode로 조명상태에 따라 LED 조명을 자동으로 조절

Optional On-Site Calibration

편리한 Calibration 기능으로 현장에서도 고품질 데이터를 보장.

Specifications



3D Point Accuracy 1.5mm



Intuitive Plug and Play System



Real-Time point cloud visualization



Lightweight Industrial Grade Device



3D Documentation Solution

Features: IP rating: IP 5X, Best ROI on the market, Auto leveling, Flexibility to work without artificial targets, FARO certified accuracy, No extra power supply required, Easy-to-use scanning software, Seamless integration with Focus^{3D} laser scan data, even in grey scale, Worldwide service and support from local FARO facilities



FARO® Freestyle^{3D} X



Xtra Accuracy

검증된 1mm 정확도로 어려운 스캐닝 작업 가능.

Optional On-Site Calibration

편리한 Calibration 기능으로 현장에서도 고품질 데이터를 보장.

Automatic Flash

The new auto mode로 조명상태에 따라 LED Δ 조명을 자동으로 Δ 조명

.

Real-Time Point Cloud Visualization

실시간 포인트 클라우드 시각화 기능은 직관적인 데이터 수집을 지원.

Up to 8m³ Scanning Volume

광범위한 스캔 영역으로 생산성 향상.

Best Point Filter

The new best point filter 기능으로 노이즈 최소화로 최적의 데이터 품질 제공.

Specifications



3D Point Accuracy 1.0mm



Intuitive Plug and Play System



Real-Time point cloud visualization



Lightweight Industrial Grade Device



3D Documentation Solution

Features: IP rating: IP 52, FARO certified accuracy, Auto leveling, Flexibility to work without artificial targets, No extra power supply required, Easy-to-use scanning software, Seamless integration with Focus^{3D} laser scan data, even in grey scale, Worldwide service and support from local FARO facilities



FARO® SCENE



SCENE WebShare Cloud Integration

SCENE WebShare Cloud data 생성 온라인 통해 제공 가능

Super-Crisp Visualisation

색상 밸런스 신규 기능과 혁신적인 슈퍼 샘플링으로 선명하고 상세한 3D 시각화 가능

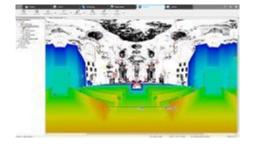
Easy Processing of Large Scan Projects

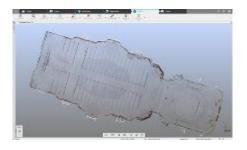
데이터베이스 기술 통해 광대한 스캔 데이터 관리 및 효율적인 처리 가능

Plug-Ins for Extended Functionality

다양한 Apps 설치로 인터페이스 플러그인 제공을 통해 기능 확장 가능.







Features: Native 64-Bit software with multithreading, Efficient workflow from the original data acquisition to the finished project, Minimal manual post-processing editing required thanks to automatic scan processing, Simple and easy to learn, New registration features provide even more reliable automatic scan placement results, Interfaces to numerous industry specific software products.



FARO® SCENE WebShare Cloud



Sharing 3D Laser Scan Data

파트너 및 고객과 쉽고 빠르게 스캐닝 데이터 공유 가능.

Easy Viewing of FARO Laser Scan Data

직관적이고 배우기 쉬운 파노라마 뷰 제공.

Intuitive Project Overview

World map에 사진과 함께 사용 가능한 프로젝트 표시

Simple Distance Measurements

제공된 스캔 데이터 상에서 간단한 측정 가능.







Features: SCENE WebShare Cloud is a cloud-based hosting solution from FARO for easy and secure sharing of scan data worldwide via the internet. 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 having their own internet server, could use SCENE WebShare to present their laser scan projects to clients an project partners.



FARO® PointSense for AutoCAD®



PointSense Basic/Pro 효과적인 Point Cloud 관리



PointSense Building 2D Building Plans을 위한 설계 도구



PointSense Heritage 빠른 3D 데이터 구축



PointSense Plant Plant 모델링 최적화



PointSense for Revit
3D models in Revit point
clouds

















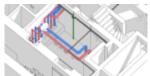
















ShipBuilding - BWTS/BWMS



Focus3D X330 HDR - 1/5 Resolution HDR 3x 12scans



Construction

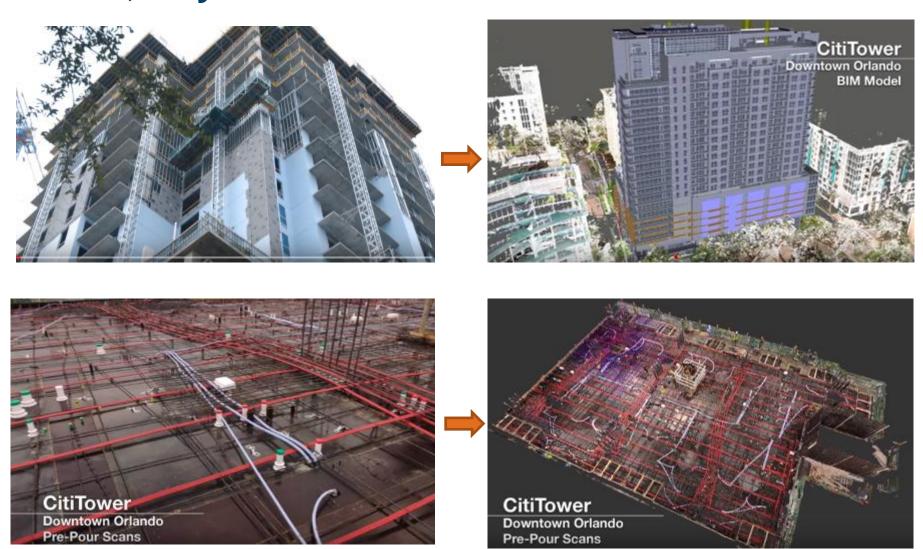


Baker Verifies Construction Quality





BIM, City Tower





Architecture



St Johannes Baptist church in Baden Württemberg



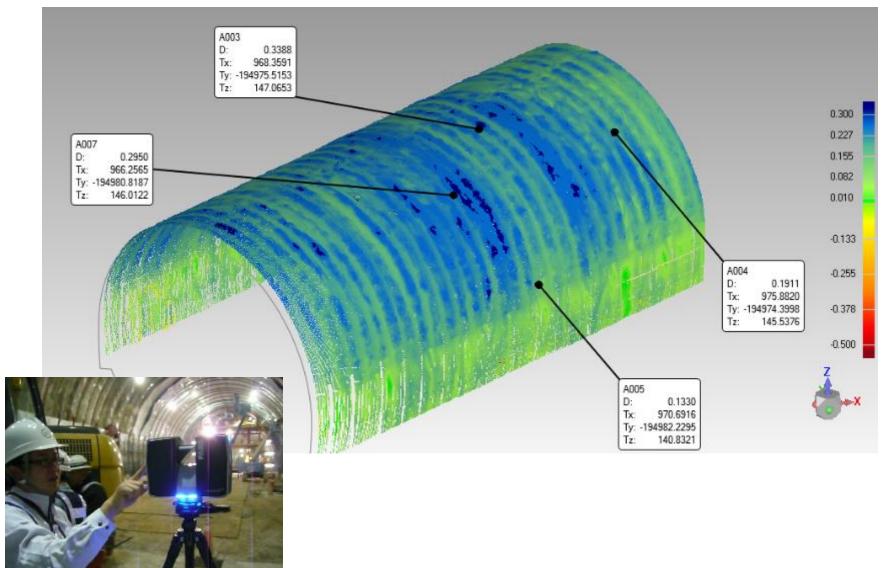


Civil Engineering & Survey





Survey & Measurement







Thank you