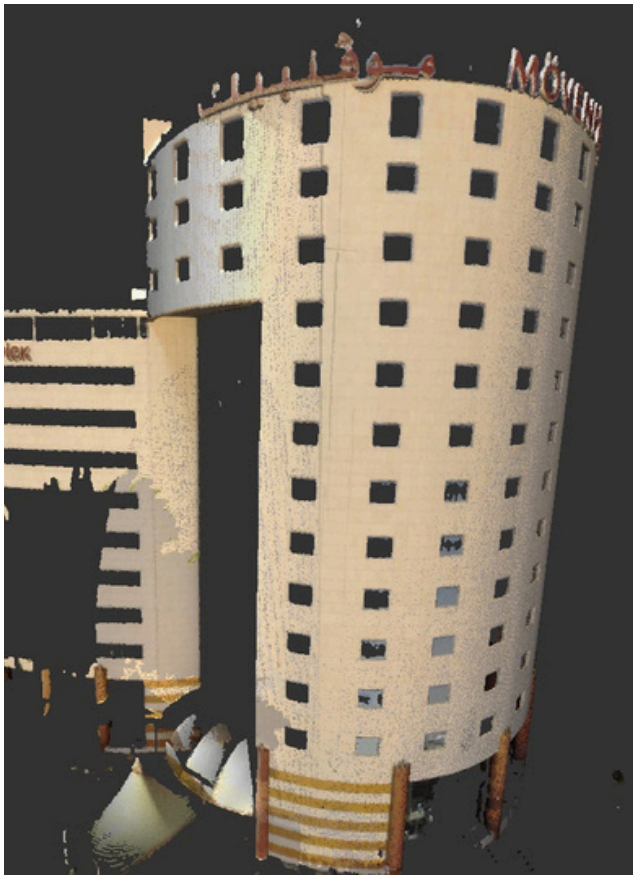
مكتب المهندس عبدالعزيز
للإستشارات الهندسية
Eng.Abdul Aziz Engineering Consultation Office

3D LASER SCANNING SERVICES

ACCURATE ON-SITE MEASUREMENT SURVEYS

3D laser scanning surveys are continuing to drive innovation in the way in which we acquire and record measurement data from physical environments, such as sites, buildings or plant facilities. Accessing very accurate measurement data along with high-definition 3D imagery which can be applied throughout your design, delivery and completion processes

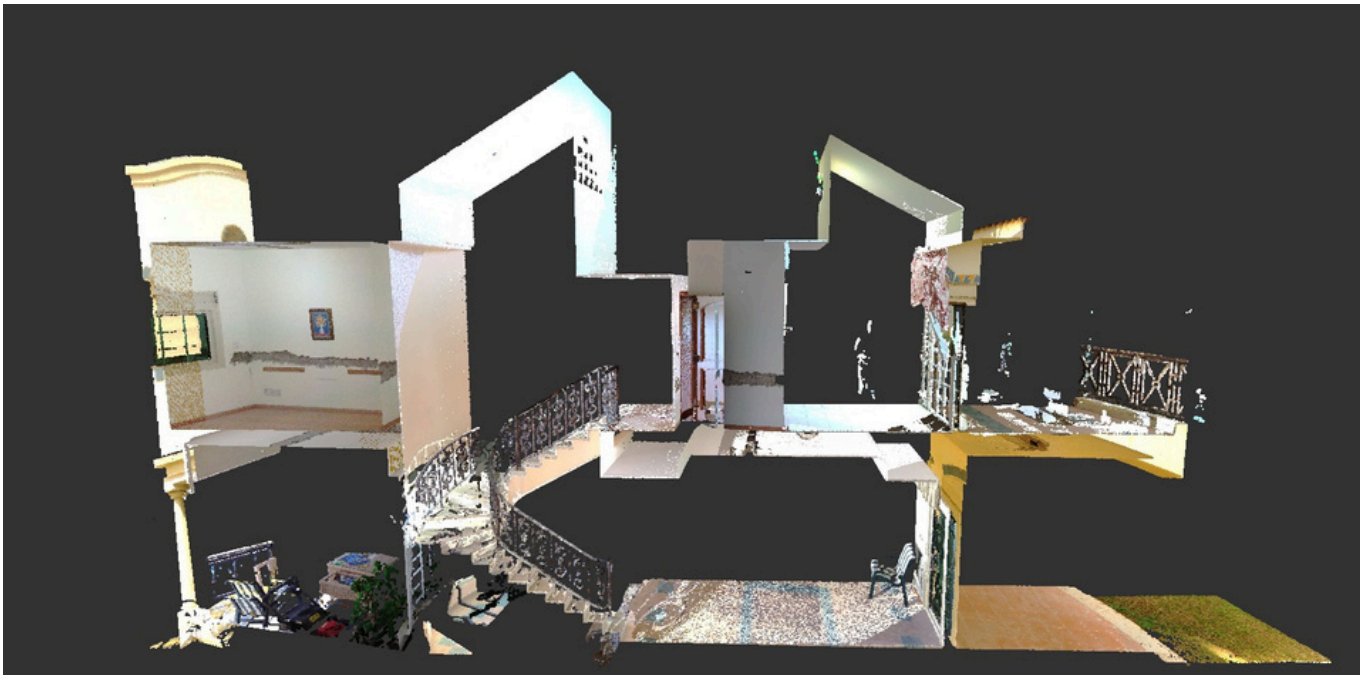


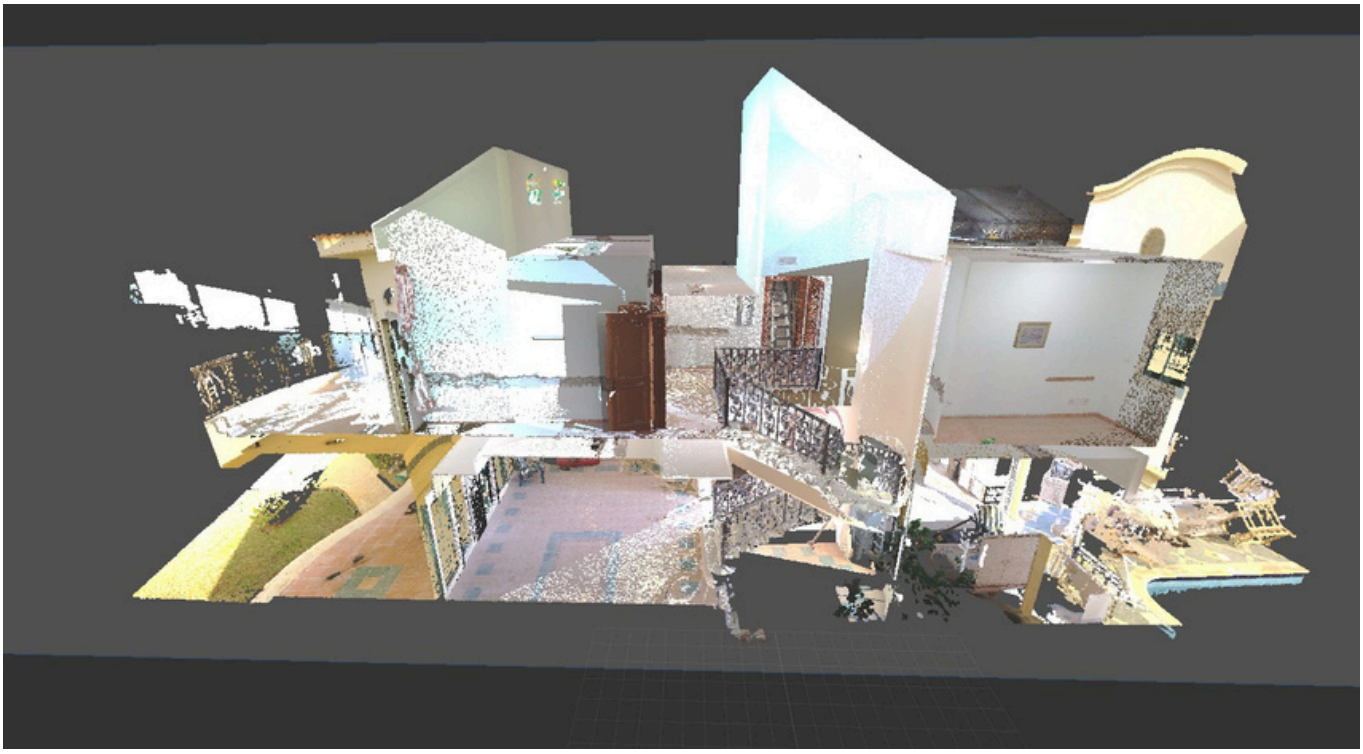
CAPTURING ARCHITECTURAL DESIGN

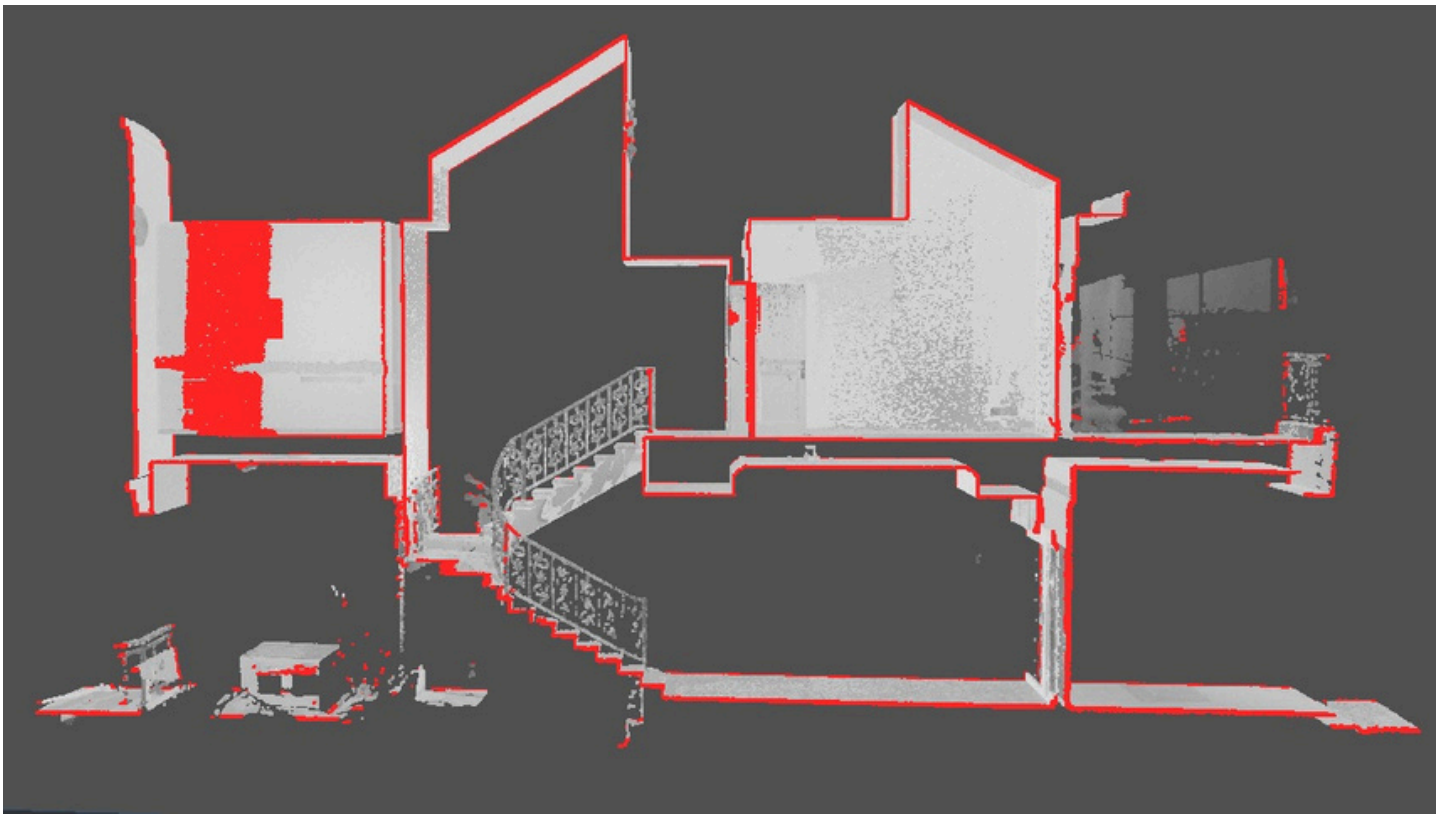
**Complimenting our Measured Building Surveys,
our 3D laser scanning offers architects and designers a safe, fast and accurate way of detailing architectural features without the need for any additional access.
Capable of capturing measurement data from up to 330 meters,
digital and physical models can be reproduced in a range of formats and materials.**

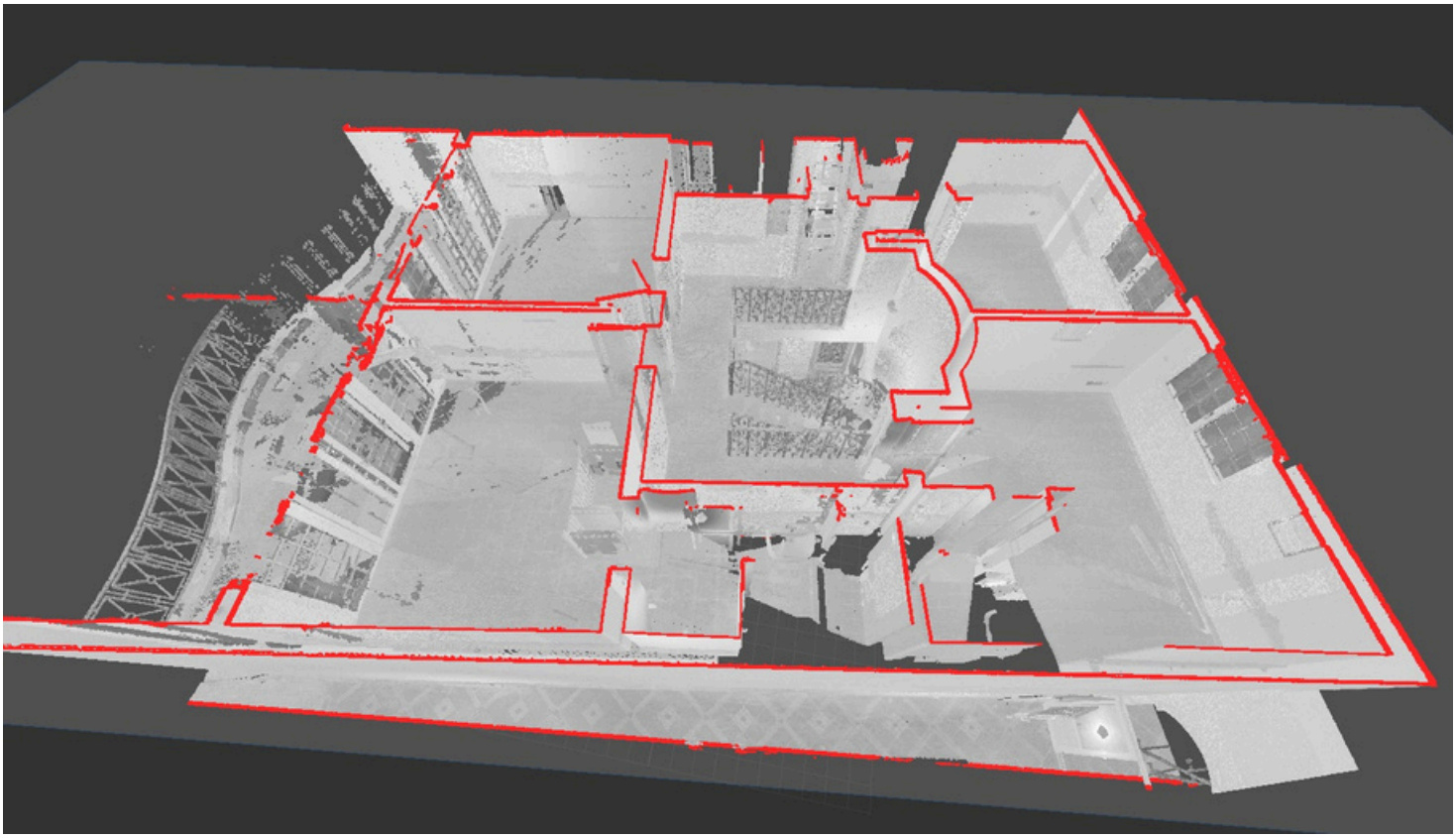
Creating a Digital Twin

As the terminology would suggest, a Digital Twin establishes an accurate representation of the measured surroundings at the time of the survey converted into a digital format.
These non-intrusive surveys are completed with minimal disruption, acquire detailing up to +/- 2mm and can be shared and imported into a variety of software applications.



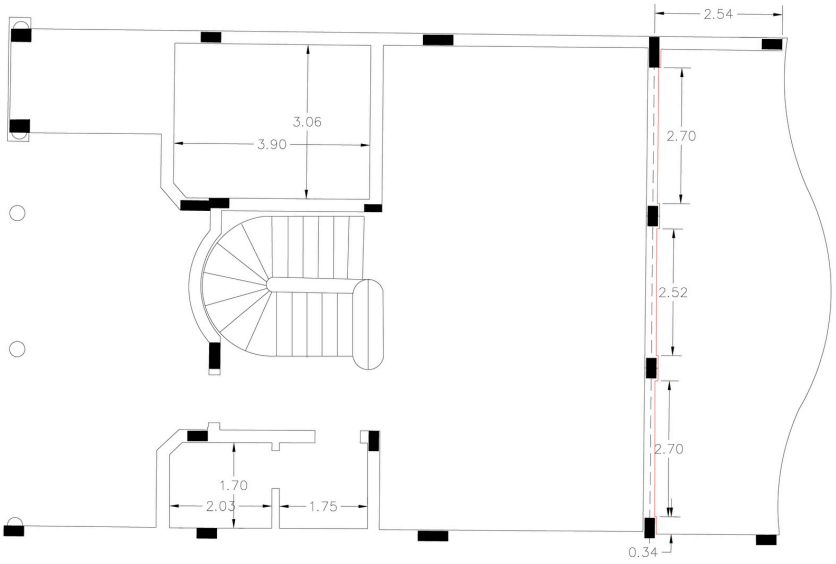


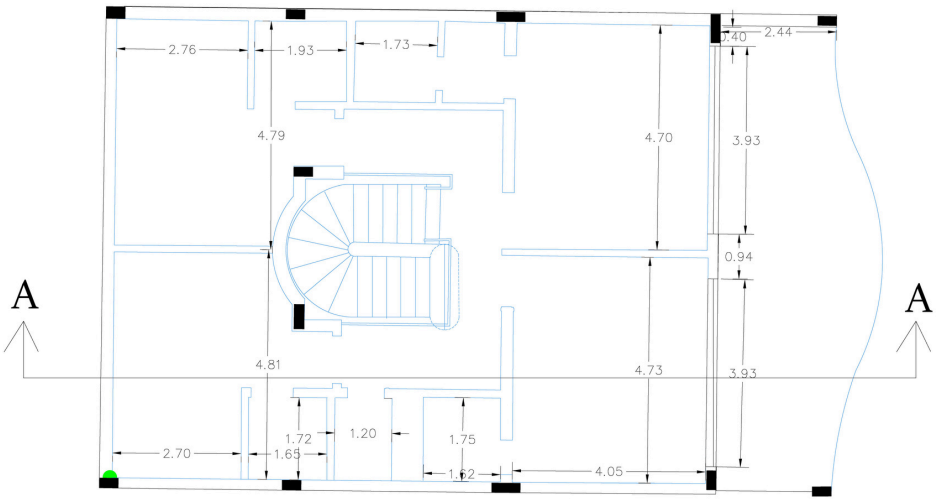




Creating a Digital Twin

As the terminology would suggest, a Digital Twin establishes an accurate representation of the measured surroundings at the time of the survey converted into a digital format.
These non-intrusive surveys are completed with minimal disruption, acquire detailing up to +/- 2mm and can be shared and imported into a variety of software applications.





Architectural Features

Accurate 3D scan data along with high-quality visual imagery allows for architectural features to be captured and recreated in multiple formats from mould making, CNC profiling and 3D printing.

point cloud

high-quality visual imagery

cross section

high-quality visual imagery of resturant

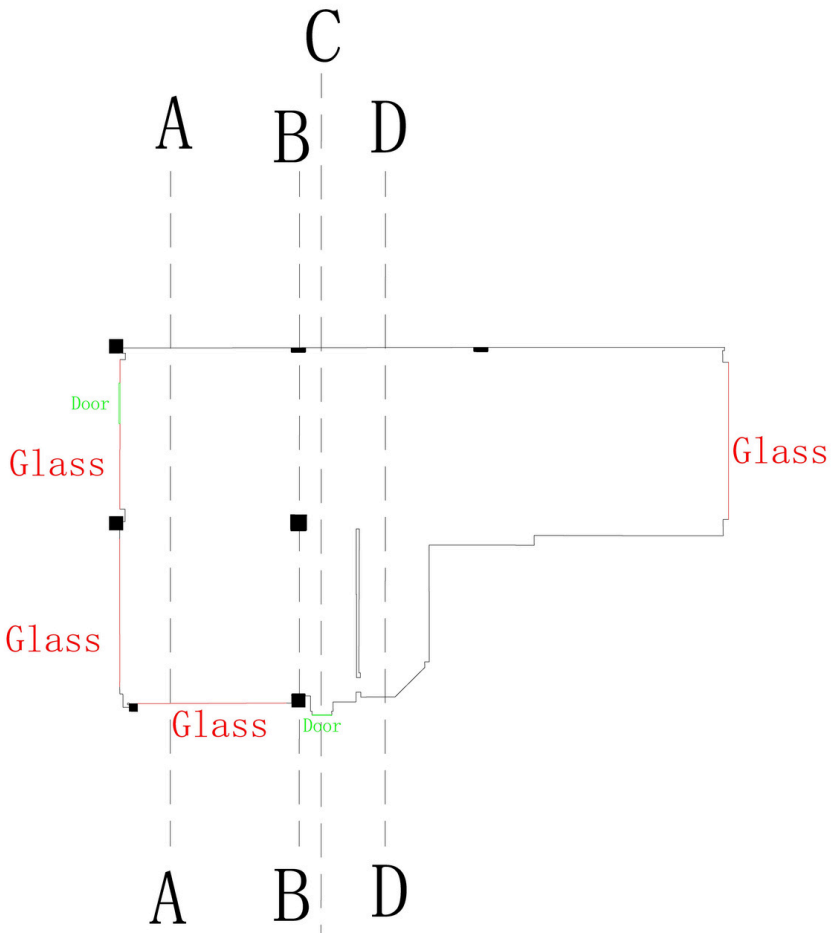
ceiling details (fire fighting system+Duct of AC)

Recording the Past

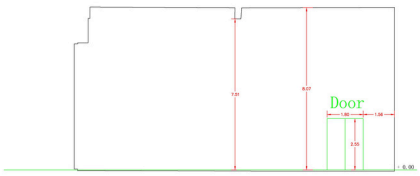
3D laser surveys not only provide valuable design information but also provide an invaluable visual record of architectural and building practices for heritage and restoration projects.

Outputs

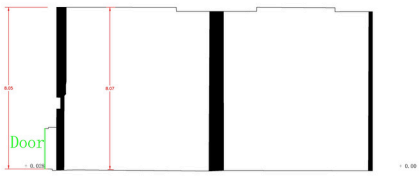
Plane &cross section of resturant



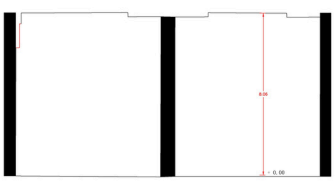
Cross Section



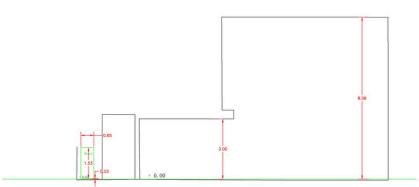
A-A



C-C



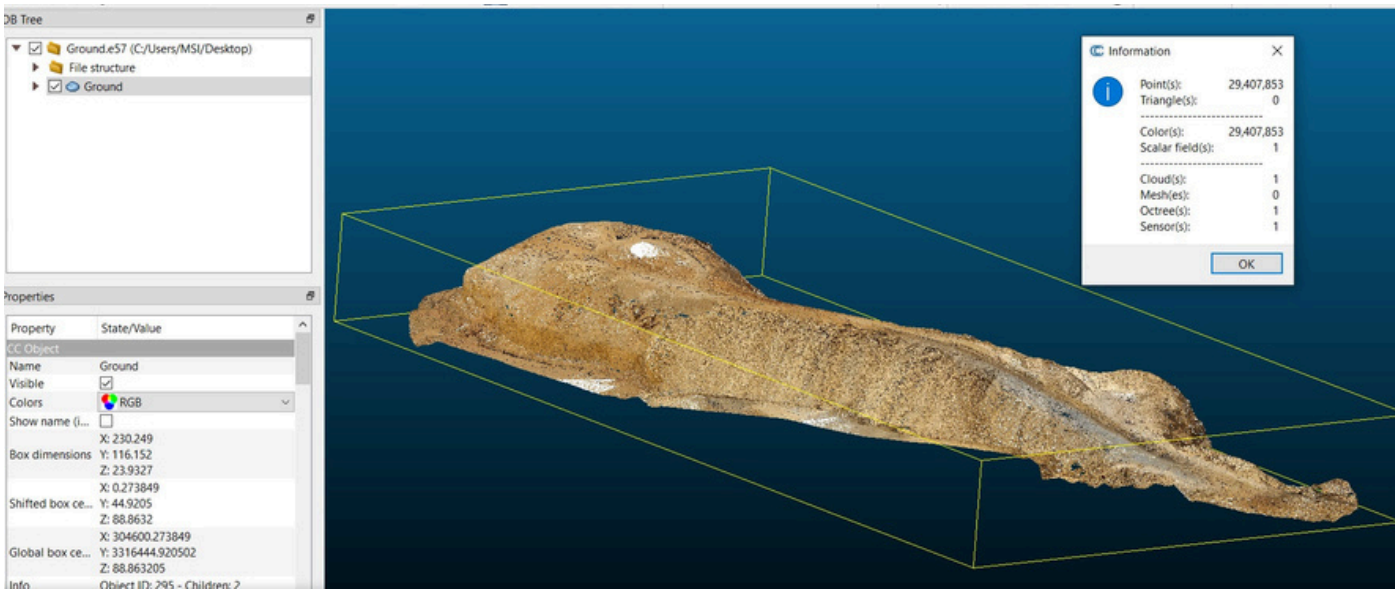
B-B

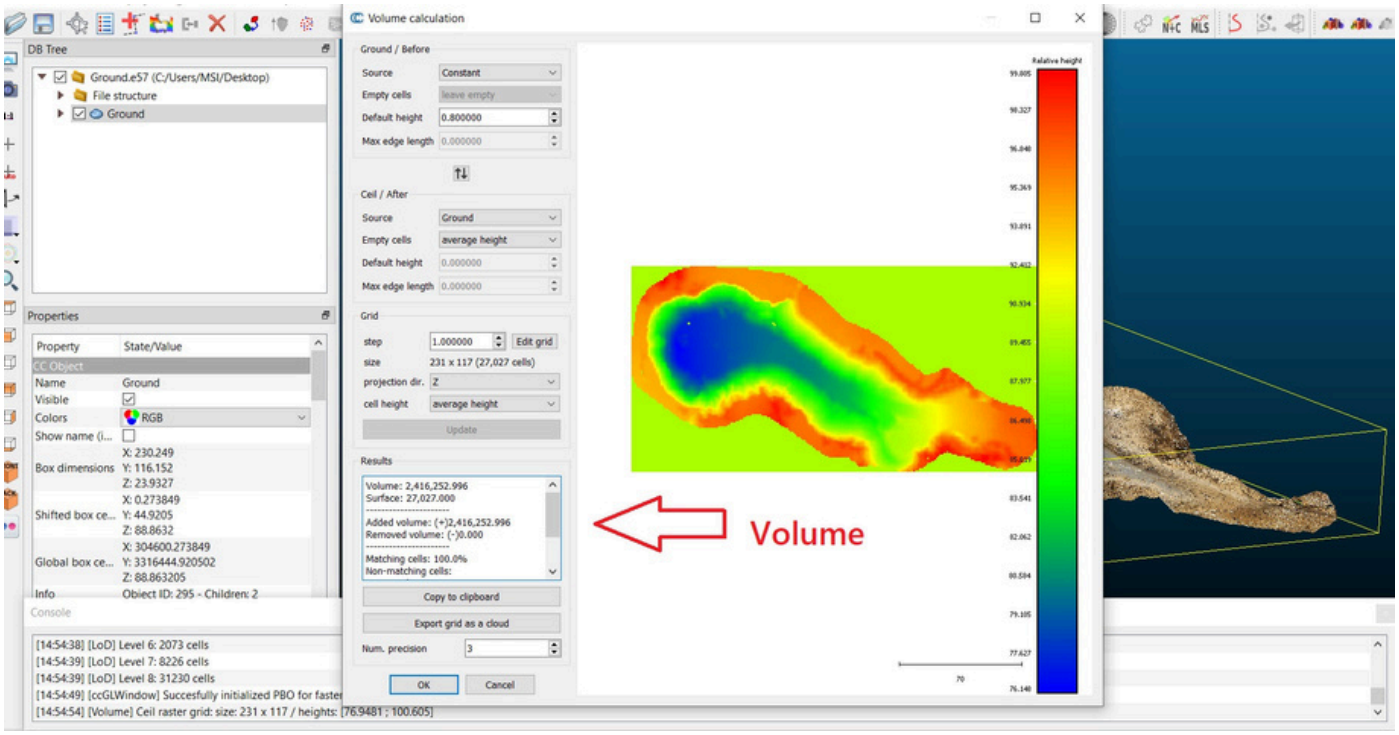


D-D

Outputs

Quantity calculation





FARO® Laser Scanner Focus^{3D} X 330

The Perfect Instrument for 3D Documentation and Land Surveying

EXTENDED SCANNING - 330M RANGE

The Focus^{3D} X 330 can scan objects up to 330 meters away. Large buildings, land-site excavations and vast terrains can be surveyed with fewer scans, thus resulting in quicker project scanning completion.

EASY POSITIONING - INTEGRATED GPS RECEIVER

With its integrated GPS receiver, the laser scanner is able to correlate individual scans in post-processing making it ideal for surveying based applications.

OUTDOOR SCANNING CAPABILITY

The Focus^{3D} X 330 now is able to perform fast and highly precise scanning in direct sunlight.

LOW NOISE PERFORMANCE

The new FARO Focus^{3D} X 330 delivers extraordinary scan data quality at extended range with very low noise.

WIRELESS LAN

WLAN remote control permits you to start, stop, and view scans at a distance.

EXTENDED OUTDOOR SCANNING IN FULL SUNLIGHT

The new FARO Focus^{3D} X 330 a high-speed 3D scanner with extra-long range. The Focus^{3D} X advances into entirely new dimensions: it can scan objects up to 330 meters away even in direct sunlight.

With its integrated GPS receiver, the laser scanner is able to correlate individual scans in post-processing making it ideal for surveying based applications.

With its increased range and scan quality, the FARO Focus^{3D} X 330 considerably reduces the effort involved in measuring and post-processing. The 3D scan data can easily be imported into all commonly used software solutions for accident reconstruction, architecture, civil engineering, construction, forensics, industrial manufacturing and land surveying. Distance dimensions, area and volume calculations, analysis and inspection tasks and documentation can thus be carried out quickly, precisely and reliably.

BENEFITS

The new FARO Focus^{3D} X 330 is the leading tool for surveying and 3D documentation.

Scanning range - 330m, integrated GPS, the possibility to work in direct sunlight as well as the specially for the scanner designed protection cover make it a ideal tool for outdoor enviroments.

CONTACT US

PROFESSIONAL ON-SITE 3D LASER SURVEYS
ACCURATE MEASUREMENTS & VISUAL IMAGERY
REDUCING PROJECT RISKS, TIME & COSTS
CONTRIBUTING TO SUCCESSFUL PROJECT DELIVERY

+966503460620

Muhanad.ghali@gmail.com