



3D aC

3D SCANNING & MODELING SERVICES

DAC
GROUP

www.dhamangroup.com

3Dac

3D SCANNING & MODELING SERVICES

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WHO WE ARE?

3DAC is a specialized division of **DAC Group** with a primary focus on 3D laser scanning & BIM modeling. Based in the Saudi Arabia, with the main office in Jeddah.

We operate with vast experience over a diverse range of services. **3DAC** offers a wide spectrum of point cloud-related products such as 2D documentation, 3D models, Building Information Models (BIM), and PDMS models.

WHY 3DAC?

Reliability, versatility, innovation, willingness of continuous development
Our products and services are suitable for industrial sites, offshore installations and vessels, architecture, heritage and large-scale urban regeneration projects.

What is more, **3DAC** is ISO certified:

- Quality Management System Certificate ISO 9001:2015.
- Health & Safety Management System Certificate ISO 45001 : 2018.

The security and confidentiality of our client's data are paramount within our working practices.

VISION

We aim to provide long-term, cost effective, high quality solutions to clients – thus building a trust worthy relationship with them. We do so by providing the best modern technology in affordable top quality.

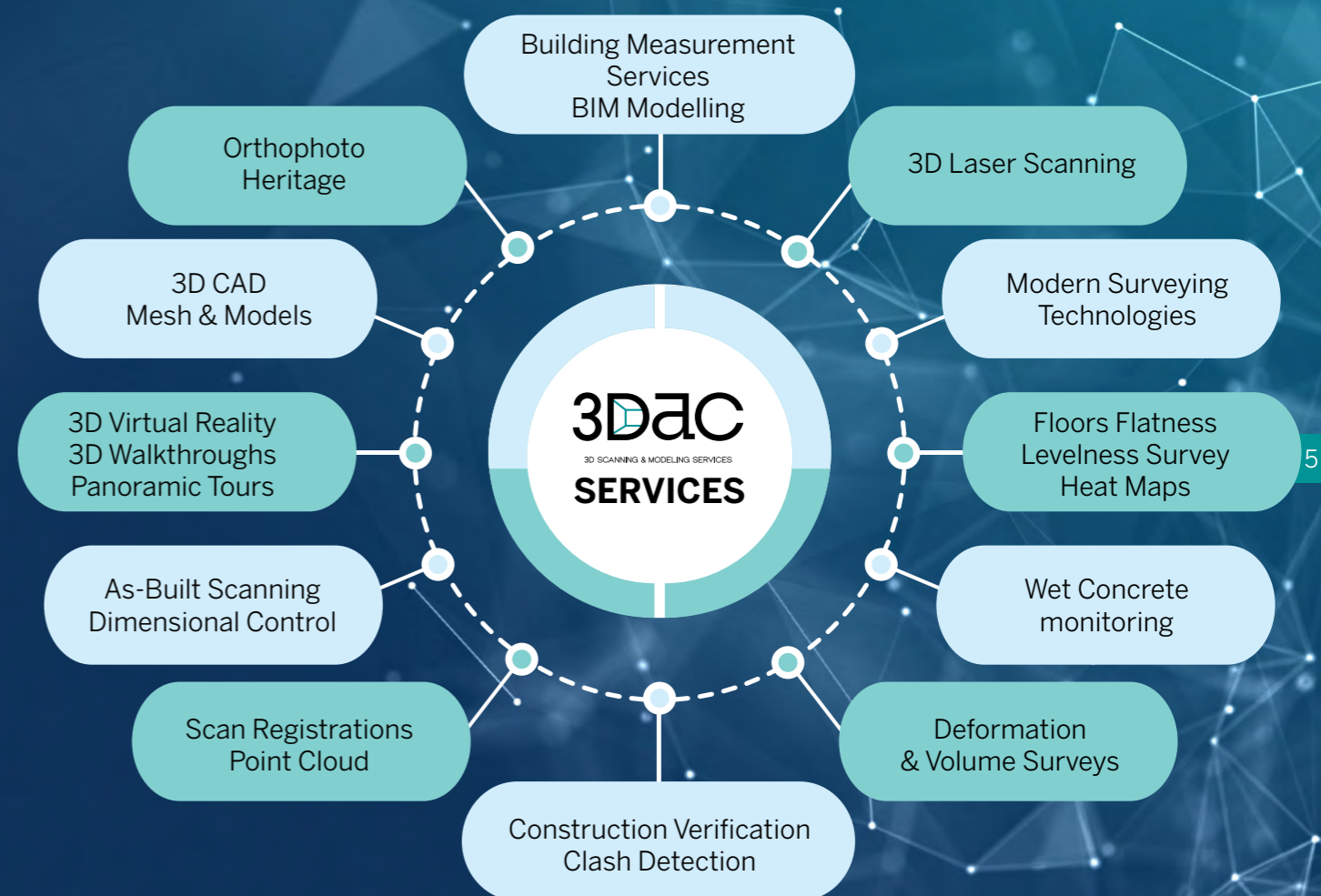
MISSION

By providing the best construction technology we aspire in creating a region with the best storage facilities – giving companies a great push for growth and aspiration

VALUES

DAC's values are ethics, safety, quality, people, relationships, innovation and delivery. These qualities are what we believe in, what customers can expect, and how we deliver.

WHAT WE DO?



BENEFITS OF 3D LASER SCANNING & MODELING



APPLICATIONS

ARCHITECTURE & CONSTRUCTION

- Building measurement services.
- 3D point cloud information and panoramic images.
- Building Information Models (BIM), in Revit.
- 3D CAD models, 2D floor plans, sections and elevations.



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HERITAGE

- Highly accurate documentation for the heritage sites.
- 2D or 3D CAD deliverables.
- Photographic or scan-based products from panoramic imagery, virtual tours and walkthroughs to high-resolution orthoimages.



OFFSHORE PLANT

- As-built surveys for offshore installations (oil rigs) and vessels.
- Safety training for the offshore industry.
- 3D CAD Models.
- 3D Point Cloud.
- Sway Monitory.



REVERSE ENGINEERING

- Accurate even sub-millimeter geometric analyzes of small elements & objects.
- 3D CAD models
- 2D Technical Documentation.
- Clash Detection.
- 3D Point Cloud.



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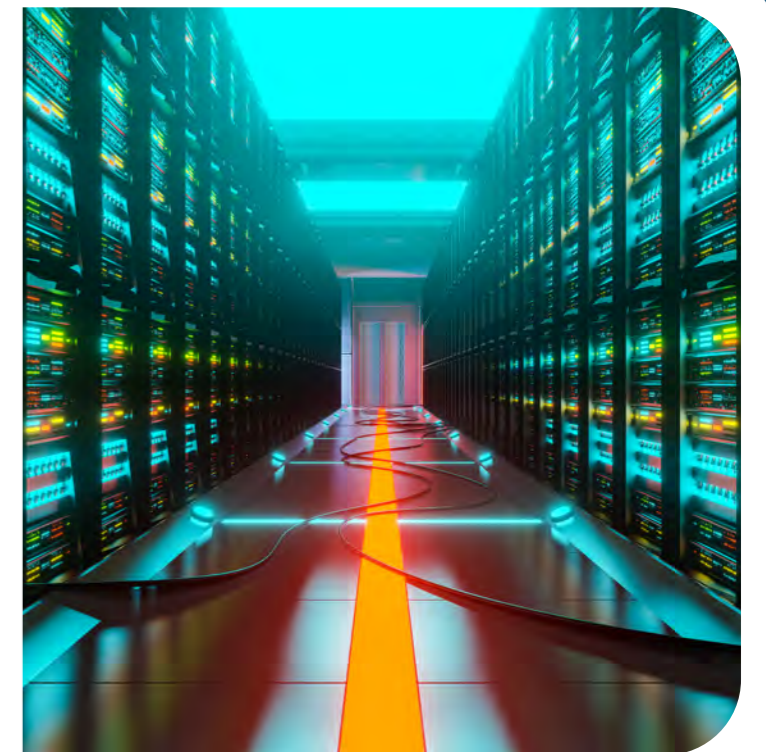
URBAN PLANNING

- Capture large urban areas using the 3D Laser Scanning.
- Point cloud information .
- 2D or 3D topographical surveys, and models (contextual elevations).
- 3D modelling for Rights of Light analysis.



AS BUILT APPLICATIONS

- As-built surveys and clash detection analysis.
- Utilizing point cloud data as a basis.
- 3D CAD model.
- 3D Point Cloud.
- Coordination Drawings.
- Providing solutions to the client unique requirements.



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BIM SPECIFICATION - LEVEL OF DETAIL

LEVEL 1 MASS MODEL

Generally used for the depiction of the architectural context.

- Solid models and level of sunlight.
- least detailed and most generate model of BIM
- General form of the building.
- No details like windows, doorways, elements of the service or architectural ones are

LEVEL 2 BASIC STRUCTURAL MODEL

Generally used for Creating a base project in the preliminary architectural concept.

- BIM model to scale 1:200.
- The model contains structural elements and openings in the building.
- Floors, columns, beams, doors openings and windows in basic form.
- No details for architectural, partition walls or interior doors

LEVEL 3 BASIC ARCHITECTURAL MODEL

Generally used for Modeling Base project excluding the construction documentation.

- BIM model to scale 1:50 or 1:100.
- Structural elements and basic simplistic architectural details.
- External woodwork like doors & windows are marked.
- Inner walls with doors & installation components are presented.

LEVEL 4 – DETAILED ARCHITECTURAL MODEL

Generally used for creating engineering finishing projects.

- Geometrically described architectural details.
- Details of all structural elements as well as the architectural ones
- Installation and furniture
- External woodwork like doors and windows along with door handles are marked.

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3DAC PROJECTS



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LOGISTICS WAREHOUSE

Client: Confidential

Location: Riyadh, KSA.

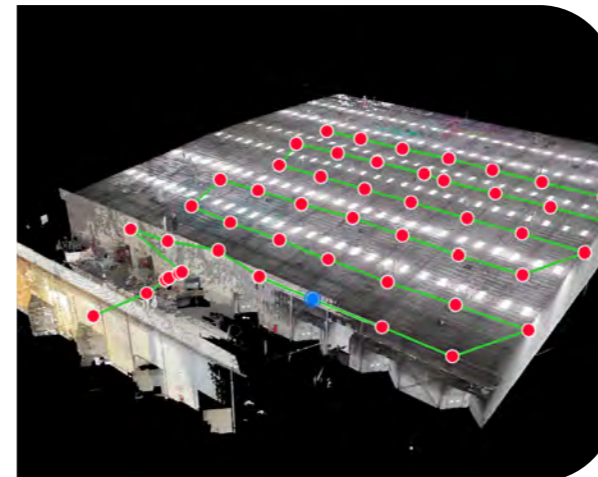
Year: 2023.

Sector: Warehousing & Logistics

Scope: Floor Flatness, Levelness Survey, & Heat Maps.

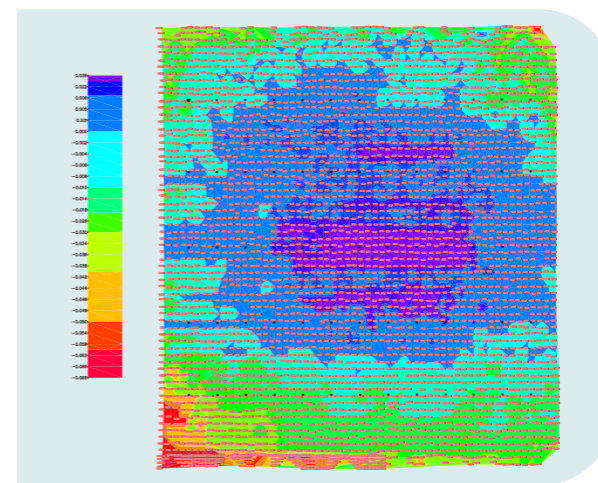


LASER SCANNING POINT CLOUD

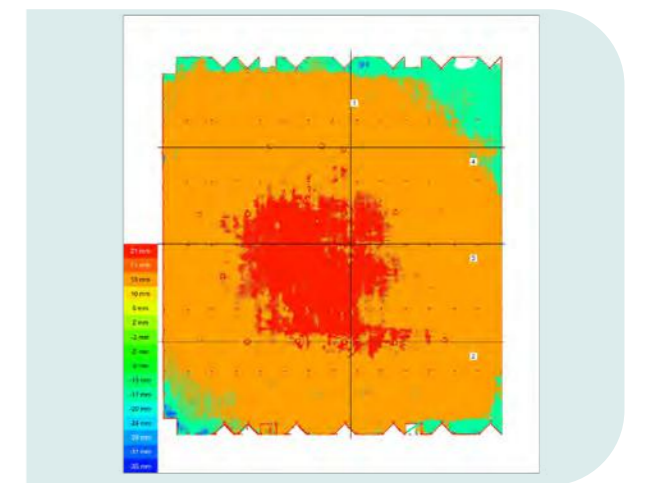


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HEAT MAPS



FF/FL RESULTS



SUMO TOWERS

Client: ASMOU - Real Estate.

Location: Jeddah, KSA.

Year: 2022 - 2023.

Sector: High rise, Mixed Use.

Scope: Laser Scanning & BIM Modeling.

Description:

A high-rise mixed-use project consists of two towers. **Tower 1** is **310 m** height & **71 floors**. **Tower 2** is **290 m** height & **63 floors**, & **12 floors Car Park**.



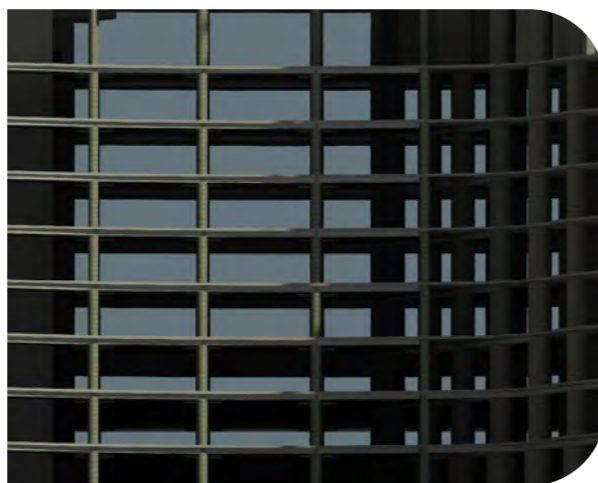
BIM - LOD 100



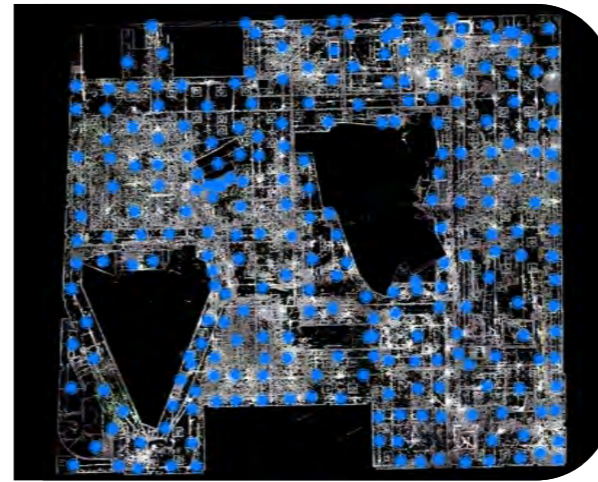
BIM - LOD 200



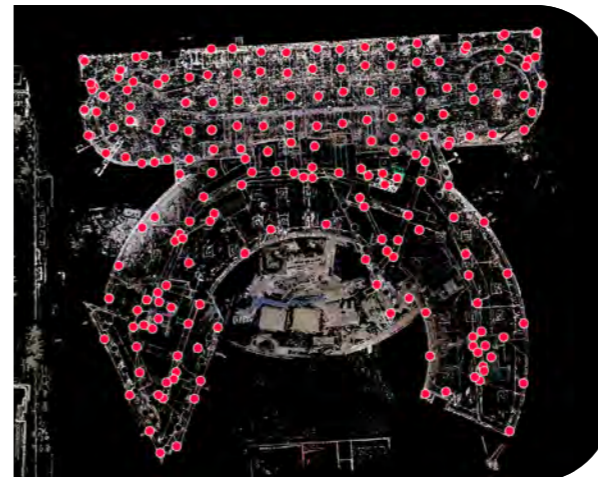
BIM - LOD 300



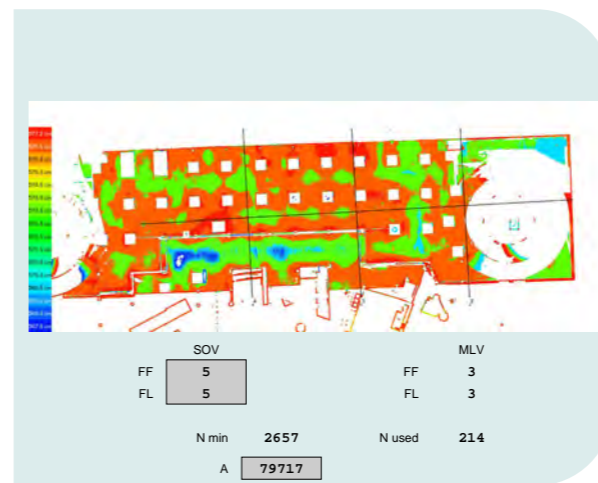
BASEMENT LASER SCANNING



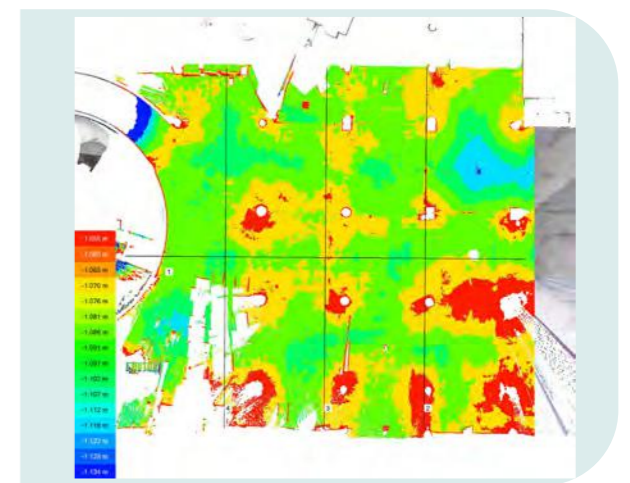
PARKING FLOORS LASER SCANNING



FLATNESS REPORTS



HEAT MAPS



CLASSIFICATION CERTIFICATE

CERTIFICATES

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رقم الشهادة: 20230008732023/011/25
تاريخ الإصدار:

بلدي balady
وزارة الشؤون البلدية والقروية والإسكان
Ministry of Municipalities, Urban Planning & Housing

شهادة تصنيف مقدمي خدمات المدن الثانية

تمنح وزارة الشؤون البلدية والقروية والإسكان شهادة تصنيف الدرجة الثانية

للمنشأة: شركة ضمان العربية للتجارة و المقاولات شركة شخص واحد

في قطاع التشييد والبناء

2050240464	السجل التجاري
ترميمات المبنى السكنية وغير سكنية إنشاء الطرق والشوارع والأرصفة ومستلزمات الطرق إنشاء الجسور والاتفاق إصلاح وصيانة الجسور والاتفاق تعديل الأنابيب باختلاف أنواعها للكهرباء والاتصالات وغيرها تركيب وصيانة أجهزة ومعدات الإنذار من الحريق تركيب أنظمة التبريد وتكييف الهواء وصيانتها وإصلاحها ترميمات الأبواب الحريق وصيانتها وإصلاحها تركيب وتمديد أنابيب تكييف الهواء وصيانتها وإصلاحها تركيب وإصلاح وصيانة أنظمة العوازل الحرارية والمائية تركيب وصيانة أجهزة ومعدات الإطفاء تشغيل المباني رصد نظم الإنذار الإلكترونية عن قرب أو عن بُعد، مثل نظم الإنذار بالسرقة أو بالحريق، بما في ذلك صيانتها	النشاط

- يسري مفعول هذه الشهادة حتى تاريخ 13/07/1445 هـ / الموافق 25/01/2024 م
- تصدر هذه الشهادة إلكترونياً وعلى الجهات المالكة للمشاركة للتحقق من الشهادة المقدمة من خلال موقع الوزارة

وكيل الوزارة لتنظيم مشغلي المدن
د. أحمد بن جميل قطان

تنظيم مشغلي المدن



**QUALITY MANAGEMENT SYSTEM CERTIFICATE
ISO 9001 : 2015**



CERTIFICATE

*This is to certify that the
Quality Management System of*

**DHAMAN ARABIA for Trading and Contracting
Company**

SUMO Tower, King Abdul-Aziz Road-23613, 2nd Floor,
Office 206 - Jeddah - Saudi Arabia

has been assessed and found to conform to the requirements of

ISO 9001:2015

This Certificate is valid for the following scope:

Restoration of residential and non-residential buildings, Construction of heavy duty industrial flooring for warehouses & cold stores, Installation of steel bridges & PEB buildings, Construction of roads, streets, sidewalks and road requirements. Construction of bridges and tunnels, repair and maintenance of bridges and tunnels, laying pipes of all kinds for electricity, communications and others, installation and maintenance of fire alarm devices and equipment, installation, maintenance and repair of refrigeration and air-conditioning systems, fire pipe laying, maintenance and repair, installation and extension of air-conditioning pipes, maintenance and repair, installation, repair and maintenance Thermal and water insulating systems, installation and maintenance of firefighting devices and equipment, building finishing, Close or remote monitoring of electronic alarm systems, such as burglary or fire alarm systems, including their maintenance

Certificate No. :BQSR22097
Registration Date :25/02/2023
Issue Date :28/02/2023
Expiry Date :24/02/2026
Recertification Date :24/02/2026



Bharve
Director

BQSR QUALITY ASSURANCE PVT. LTD.

Key Location: 183 Broadway, Ste 210 Hicksville, New York NY 11801, USA
Operations Office: D 303, 104-108, Nisarg Plaza, Wakad, Pune - 411057. | Web: www.bqsrert.com
Accredited by IAS (3060 Saturn Street, Suite 100, Brea, California 92821 U.S.A.)



For verification and updated information concerning the present certificate, please visit www.bqsrert.com The Certificate is valid for period of 3 years subject to satisfactory annual surveillance audit. This Certificate is the property of BQSR Quality Assurance Pvt. Ltd. & shall be returned immediately when demanded.

**OCCUPATIONAL HEALTH & SAFETY MANAGEMENT
SYSTEM CERTIFICATE ISO 45001 : 2018**



CERTIFICATE

*This is to certify that the
Occupational Health & Safety Management System of*

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