Terrascan Mapping Technologies



Company Profile

Fast & Competitively Priced Services



WHAT?

Unmanned aerial vehicles deliver photogrammetric mapping, oblique and stereoscopic aerial photographs, and 3D Modeling

WHERE?

Israel; Western and Eastern Europe; Russia; South Africa; South east Asia; New-sealand

HOW?

Out-bid ANY quote (Price) Out-perform existing platforms (Accuracy) Ultra-fast delivery (Schedule)









What does Terrascan Labs offer to you?

SERVICES

Aerial Photography, Orthophotos and Photogrammetric Mapping



- Vertical and oblique aerial photographs are shot with stabilized HD digital equipment
- Industry standard photogrammetric maps for surveys and project planning.
- High resolution Orthophotos with optional additional information layers as required





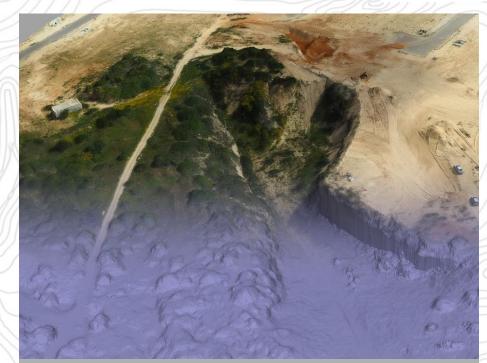


3D Terrain Mapping



Using our state of the art 3D imagery system, we are able to generate high detail (5cm/Px) **DEMs (Digital Elevation Model)** and **DTMs (Digital Terrain Models)**

which can be used for planning purposes, simulations, precise measurements, and much more.



3D Modeling



- Advanced computational servers enable the creation of highly detailed **3D models**
- Can include surface details
- Applications:
 - Exterior assessment
 - Project simulation
 - Marketing purposes
 - Volume measurement
 - And more...





Post mapping analysis enables a vast range of products

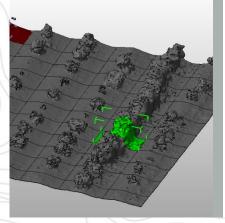
ANALYSIS



Analysis



Object Analysis Identifying abnormal objects within a vast group



Height Analysis

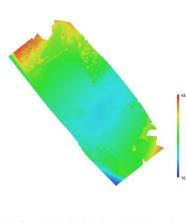
Exemplifying data in easy to analyze formats. Example: Height by color

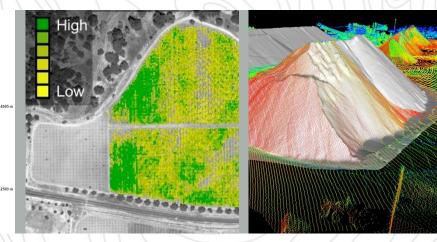
Composition

Scanning via hyper spectral sensors enables water content analysis

Volume

Analyzing 3D models enables exact and fast volume measurement







About the Terrascan technology

TECHNOLOGY



UAV Technology



Strategic competitive advantage derives from:

- Unmanned
- Light weight
- Easy to Ship & Deploy
- VTOL/VSTOL
- Low cost
- Below the clouds
- Green technology

TerrascanB – Multirotor, AKA "Becky"

- Flight time: Ranging between 10 minutes and 1 hour
- Altitude: Up to 100 meters

Technical Details

- Speed: From hovering (0 m/s) to 65 km/hr
- Payload: up to 6kg

- Wingspan Fixed wing 180cm
- Size Multi Rotor 139cm

TerrascanC – Fixed-Wing, AKA "Chuck"

• Materials: Carbon fiber tubing

01/06/2014

Operational Scope

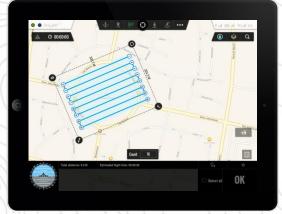
- Flight VLOS range: approximately 850m
- Flight BVR range: Not available
- Coverage:
 - 0.2 km² to 1 km² in single flight
- Daily: Up to 4 flights



- DEMs with up to 10cm/Pixel
- Orthophotos with up to 5cm/Pixel
- Map scales: 1:100 to 1:10,000
- Weather: Handles up to 35kt winds
- Operational Ceiling: 100m



Using Satellite Imagery and telemetry in Real-time



Flight plan programming and upload



Individual waypoint adjustment

Output Specifics

Wide variety of 3D output formats to suit client needs:

-	PLY
•	3DS
-	FBX
1.	Universal 3D
	3D PDF

DirectX GeoTIFF

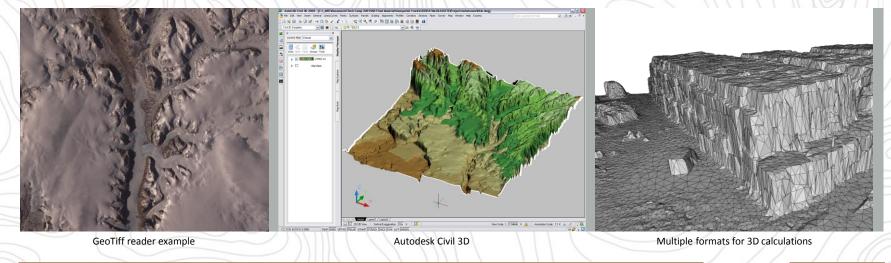
XYZ

ASPRS

- Autodesk Maya



- Google KMZ/KML
- COLLADA
- VRML
- OBJ







Things you ought to know about our company

COMPANY



Certification & Insurance



Terrascan Labs LTD is CAAI certified for:

- UAV manufacturer
- Operational license
- Platform licenses
- Piloting licenses
- Insurance
 - Insured by MARSH international
 - In excess of CAAI requirements on all criteria

רישיון הפעלה מסחרית 177/02/2014
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טרהסקאן מעבדות בע״מ אפאר ההברה: \$\$\$\$
רישיון להפעלה בסתרית של כלי טיש בלתי מאויש בכפוך לתמוים הרשומים בנספר לרישיון ות.
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שר התחבורה והבטיחות בדרכים
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NAME OF OWNER TERRASCAN LABS LTD			ות בע״מ	שם הבעלים טרהסקאן מעבד
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REZ BITTO

EREZ BITTON Co-Founder

Erez Bitton fell in love with all things airborne while serving as an F-16 fighting falcon pilot in the Israeli Air force. During his service, Erez gained expertise in advanced mapping and modeling techniques.

Erez is in charge of all data analysis of acquired data using the company's computing servers. In addition, Erez manages the sensors department within the company.

Erez has a BA in Mathematics and Computer Science from the Ben-Gurion University coupled with an MBA from the Peres Academic Centre.



LEE LASTER Co-Founder

Lee Laster has been tinkering with aerial unmanned drones for the past 27 years. A veteran of the Israeli Air Force, Lee has helped develop advanced avionics and flight instrumentation.

Lee is in charge of the platform R&D efforts as well as the company's chief operational flights officer. Lee is a licensed UAV pilot.

Lee has a BA in computer science, an MBA from the Interdisciplinary Centre in Herzeliya and a diploma for post-MBA executive studies at the Wharton school of business in Pennsylvania.



The benefits of working with our company

ADVANTAGES

ADVANTAGES



Mapping Technologies

Budget

- We aim out-bid and out-perform your best quote
- Fast delivery time
 - We deliver prompt service. Twice as fast as anyone else
- Money back guarantee
 - Yup. This is not a typo, we'll give you your money back if you are not satisfied with our products.
- Flexibility
 - We scan locally. Almost anywhere. Bespoke to customer needs.
- Low risk
 - We eliminate the risk of aerial human pilots
- Green company
 - We are a carbon emission free company
- Passion
 - We love this job. It was our dream. Now we're living it

Contact us

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Main Offices

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