

Hetz Hazafon Mapping & Engineering Profile

Hetz Hazafon Mapping & Engineering Company Ltd (Northern Arrow Mapping & Engineering Ltd) is a Leading Mapping & Surveying company which is committed to Execution of high quality projects all over the state of Israel.

The company, which is located in the Industrial park of Tirat Ha'carmel, leads the Mapping & surveying domain with extensive activity in most influential Companies, firms and organizations in Israel.

The company employs 70 experts in wide range of services Including more than 12 engineers and surveying engineers , field teams , Photogrammetric experts for Aerial mapping and accurate Orthophoto, Lidar and Bathymetry experts, City Planners, Aerial photographers and Real estate appraiser.

The wide range of Employees in Hetz Hazafon Mapping & Engineering Company Enables high-quality projects and dealing with complex and unusual professional issues.

Our products include:

- Ground surveys products.
- Accurate Photogrammetric mapping.
- Digital aerial photography for photogrammetric mapping, Color Orthophotos and multispectral imaging.
- Bathymetry mapping (underwater depth of lakes or ocean floors).
- Lidar Surveys (Topographic and Bathymetric Lidar).
- Real estate registration (Cadaster).
- Compilation of engineering Land designation plans
- Designing and Editing of Program maps for registration of rights to land
- Real estate appraisal & land registration

The company owns multiple aerial photogrammetry and Lidar systems including a **large format** Leica DMC250 Digital aerial Mapping system for accurate photogrammetric mapping which enables to produce Aerial photos for accurate photogrammetric mapping, Color Orthophotos and multispectral imaging with 4 channels simultaneously.

The aerial photography systems of the Company are approved by the Central Survey of Israel (MAPI) with the highest category possible – grade 3 – scale of 1:250 !

Recently the company purchased a unique **Topographic and Bathymetric Lidar system** – Chiroptera 4x from "Leica". The system can scan both Topographic and Bathymetric data simultaneously up to 25 m depth !

The company has wide national distribution and working relationships with many organizations and firms that enables fast response time, availability and accessibility to information sources and to websites all over the state of Israel.

The company's advantages are expressed by:

- Professional team with extensive experience.
- Long standing familiarity with the customer needs.
- The company's volume of activity on all wide range of services.
- Continuous improvement in all aspects: processes, technology & Team Training.
- Provision of services all over the state of Israel.

The company has a certified quality management system according to **Israeli Standard ISO 9001: 2008** for field mapping and geodetic measurements Domains.

The company vision is to provide quality products to all of her customers. The vision is based on the values by which the company operates.

Quality is one of the main components of the company. In parallel to its growth, the company continues to be committed to Quality Assurance with no Compromises, and does not satisfied with application and maintaining quality assurance processes but working as always on creating a culture of quality that enhances personal awareness to the importance of quality in all spheres of activity.

We maintain our standards through strict policies and strict procedures. Hetz Hazafon Mapping & Engineering has many years of reputation of maintaining the quality of its products that is based on four main principles:

- **Retention test procedures** - continuous improvement in all the domains in which the company operates.
- **Full commitment to the law requirements** - an immediate, reliable and accurate response to legal requirements and mandatory standards.
- **Employees training processes.**
- **Permanent and continuing Awareness** - Constant improvement of the company's products and services as a result of technological and other developments.

Hetz Hazafon Mapping & Engineering products:

1) Ground survey products

Survey for planning, site surveyors of The Ministry of Construction and Housing and Israel Land Authority (RAMI), survey for Land expropriation, Establishment of geodetic control networks, Checkpoints G.P.S, survey for calculating local taxes etc. The company operates routinely 6 field teams to Provide Ground surveys products.

2) Photogrammetric mapping

Sketching maps from Aerial Photography which includes an outline of the land, Additional ground survey, where necessary, and perform accurate mapping for engineering needs. Additionally, The Company has Extensive experience in mapping, using airborne laser systems (Lidar).

The company owns a **large format** DMC250 Aerial Mapping system for photogrammetric mapping from "**Leica**", which contains a digital mapping camera with constant calibration that does not change. The system consists of a number of lenses from different focal lengths calibrated for various photography tasks. The system provides a very high level of accuracy achieved by integrating GPS systems, airborne and ground based, with advanced stabilization system and IMU system running simultaneously during the flight.

Recently the company purchased a unique **Topographic and Bathymetric Lidar system – Chiroptera 4x** from "**Leica**". The system can scan both Topographic and Bathymetric data simultaneously up to 25 m depth !

3) Aerial photographs and color Orthophotos

Preparation of aerial photographs that are aligned and adapted to the Israeli coordinates grid using aerial photographs and satellite imagery using systems that are approved by the Survey of Israel. In addition, the company makes angular photographs for various uses and photographic infrared NIR, CIR and RGBN simultaneously by one head with the new camera system from "Leica".

4) Bathymetric mapping

Performing traditional Bathymetric mapping projects using a boat with sonar system or with the new **airborne bathymetric Lidar system** followed and signed by a qualified Bathymetric surveyor. The company's clients in this sector are municipalities, financial companies, the Israel government tourist corporation, Israel Oceanographic and Limnologic Research (IOLR), water planners, drainage and rivers authorities, marine work companies etc.

5) Cadaster, Land Registration & Parcelation, Designations and Land Use

Preparation of plans programs for registration compiled programs, designations and Land Use, land designations surveys, Linear building maps And analytical calculations of blocks and plots for establishing limits etc.

6) Real estate appraisal & land registration

Preparation of real estate valuations for a wide range of purposes, Professional support for Engineering plans by real estate appraiser, Professional advice by real estate appraiser, Preparation of tax assessments, preparation of registration files etc. The department is directed by a certified real estate appraiser with extensive experience.

For more information please enter the company's Web site: www.hetz-hazafon.co.il

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