

About Us

Heliospekt is a full-service aerial inspection platform tailored specifically to service solar assets throughout their entire 20-30 year lifecycle, from preconstruction to long-term O&M. By combining Ultra High Definition visual and thermal image acquisition with state-of-the-art AI Deep Learning software, we've developed an accurate, dependable, safe, and efficient system for solar stakeholders to manage your portfolios of solar assets.

Our Mission

We enable solar operators and asset owners to maximize the productivity of your assets over the entire lifecycle of your projects. We deliver this by utilizing advanced aerial thermal imaging and AI data analytics to

- 1 Safely, quickly and accurately inspect and benchmark your PV plant performance
- 2 Help EPC's, solar developers and asset owners save money and time while minimizing hazards and risks during the development and designing phases of your solar projects
- 3 Support solar asset operators, managers and owners in managing your growing solar portfolios with a fully customizable cloud-based portfolio management dashboard



Our Approach

1. Assess the scope of the project

Because of variables like site size, location, local regulations, weather conditions etc, solar array inspections can vary in size and complexity. So, this is why we spend the time upfront to assess and factor in these variables to ensure the inspection delivers exactly what you need.

2. Execute

Once we have defined and agreed to a specified inspection scope, we will execute on the deliverables. This can be any combination of the services listed below. We have tailored each of our service offerings to solve the most common problems occurring along the lifecycle of commercial and utility Solar installations.

3. Analyze, Report and Recommend

Once the drones are back on the ground, the real value of Heliospekt comes to life. We use our cutting edge drone plus solar experience in both the drone and solar industries to build quality reports, documentation, and recommendations that will empower any Solar Operator to make smarter decisions based on superior data and insights.



Our **Services**



Advanced Solar Asset Inspections

Autonomous aerial inspection service utilizing the latest in high definition visual and thermal imaging, drone technology and AI enhanced software to inspect, analyze, and model commercial solar assets. 99% accurate, 97% more efficient, and 80% faster than traditional manual inspection methods. Get valuable insights, accurate data, and comprehensive reports about currently operating assets across your entire portfolio, and benchmark your performance against a 15GW+ global data set.



Topographic Survey

Aerial photogrammetry modeling for ground mounted solar asset construction projects. Provides project engineering & design teams with digital models and reports of site assessment data in order to efficiently manage project development from pre-construction phases to construction of the solar PV system



Rooftop Modeling

Our Drone enabled Rooftop Solar PV Planning Surveys and Modeling service enables design & engineering teams to properly and accurately plan, design, and build new rooftop solar installations. Safer, faster, and less expensive than traditional modeling methods, this service provides teams with the various AutoCAD and 3D Mesh files needed throughout the preconstruction phase.



Shading Inspection & Analysis

Our Shading Inspection & Analytics service quickly empowers Solar Asset Managers with comprehensive data and reports identifying current and potential areas of power loss due to vegetation and various obstructions. Build data-driven models and plans to maintain and increase your solar assets' efficiency and power production with our in-depth analytics and breakdown of problematic shading and forecasted areas of concern.

The **Heliospekt Advantage**

Having access to any individual item listed below would equip you with a valuable competitive advantage, but when coupled with our dedication to providing experienced, time-tested insights you'll soon find Heliospekt inspections to be a performance staple in the future of your portfolio.



Make wiser and better-informed preconstruction decisions based on superior data, leading to fewer problems down the road for the duration of your solar asset lifecycle



Enable your team to easily access visual inspection reports via cloud-based Portfolio Management Dashboard



Compare and benchmark your solar assets' performance against a global 15+GW database



Optimize worker health and safety thanks to automated aerial vs hazardous manual inspections