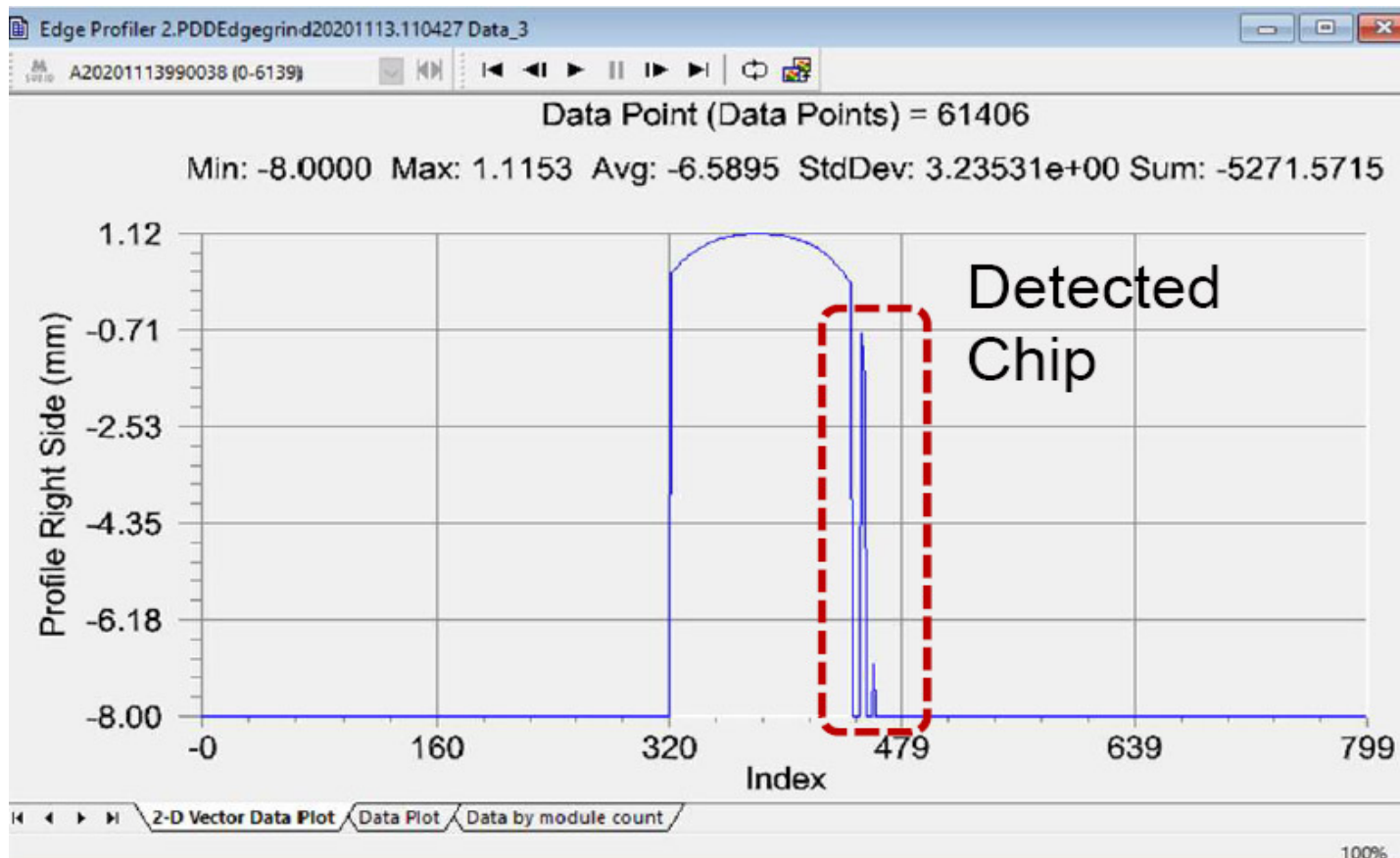




Glass Inspection Testing Service



Improve quality, increase throughput, protect your margins. With custom, fully integrated quality inspection tools from k-Space. Our in-house testing lab will get you started. We provide an in-depth graphical report summarizing all issues, findings, plus our recommendations, including a mock-up of the right solution that fits within your existing infrastructure. k-Space glass inspection tools measure for defect detection, surface quality, corner and edge defects, glass breakage, spectral reflectance, film thickness, color, sheet resistance, and more. Our report includes panel image close-ups, charts, data, a review of all tests undertaken, equipment used, video of samples going through our non-contact, in-line conveyor, speeds, and more.

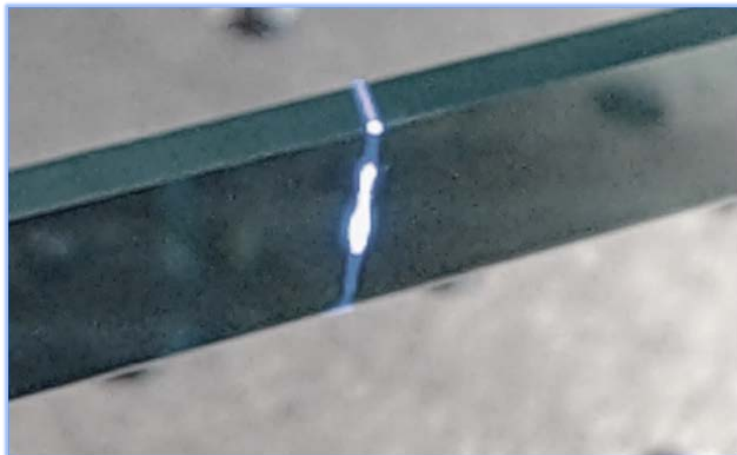
Inspection Testing Services	Solving Your Quality & Throughput Challenges
<i>Send us your samples</i>	We can test for chips, cracks, blemishes, thin films, color, sheet resistance, and other factors. We analyze corners, edges, and all sides of your samples.
<i>Complete In-house Testing</i>	We evaluate different types of glass, coatings, and different film types. Samples can be of nearly any size..
<i>Collaborative Engineering</i>	k-Space metrology tools are in use in production facilities around the world. Our industrial metrology engineers will work with you from start to finish.
<i>Analysis and Recommendations</i>	Our report will include results, recommendations, and additional guidance. Plus, images and data analysis. We are happy to provide a detailed proposal for complete solution.



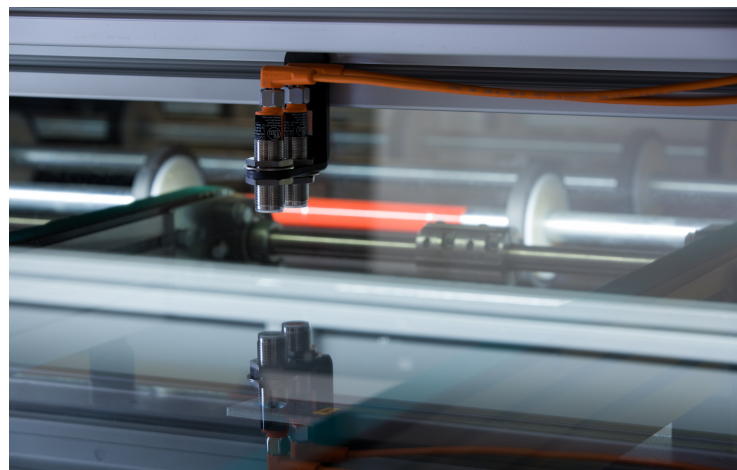
Glass Inspection Testing Service

What Are Your Systems Not Catching in Time?

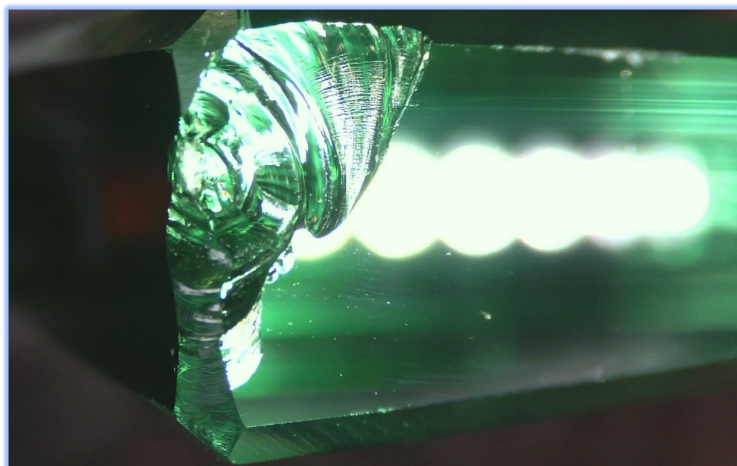
A laser passing across the glass panel edge uncovering potential defects and abnormalities. In our in-house testing lab, our tools identify cracks, chips, scratches, digs, pinholes, color uniformity, and other factors. We can test clear or transparent glass and opaque glass using high-intensity LED light bar modules with safety shielding. These efforts help us determine the best inspection solution for your environment.



Before implementing an automated visual inspection solution, it's best to test your panels to determine the very best solution. The k-Space industrial metrology lab uses the latest sensors, cameras, lasers, spectrometers, plus our own conveyors and our proprietary software to construct a profile of both sides of your panel, and along all edges and corners. We scan for deviations in microns.



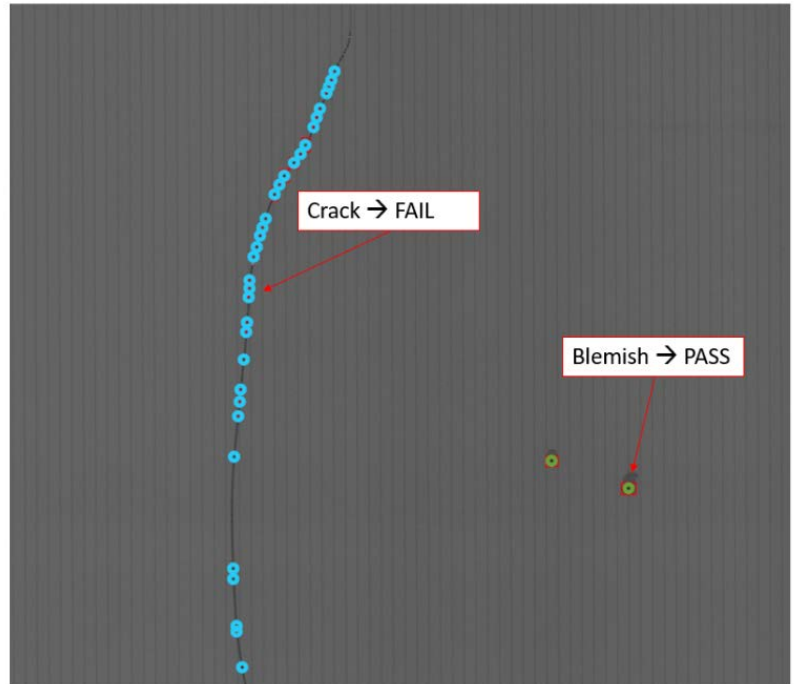
What are your systems not catching in time? Real-time analysis of glass breakages and defects lets you quickly scrap defective product and identify upstream manufacturing issues. Our glass inspection solutions will identify cracks, chips, scratches, digs, pinholes and other defects. We can test for any of these in our industrial metrology lab. We can test across different panel sizes, shapes, thicknesses, coatings, substrates, and other factors.



Glass Inspection Testing Service

Custom to Your Standards

Where on the panel are you having the most recurrent issues? Is it a crack or a blemish? Whether it's a glass panel or solar panel, high-margin or high-volume, we know that your product must meet your unique standards. Our in-house testing lab will conduct tests that are designed for your product, your manufacturing infrastructure, and your production demands.



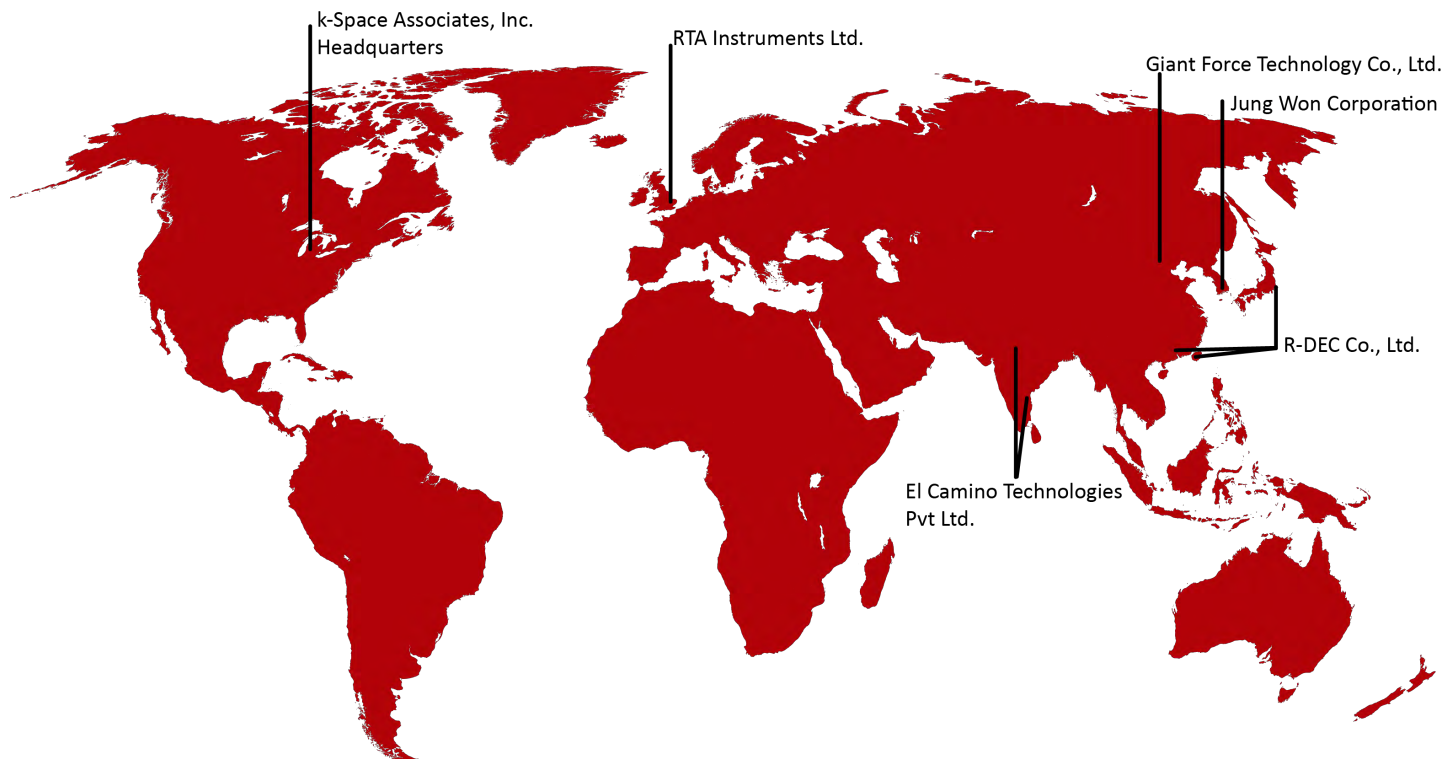
What's Your Measurement Challenge?

- Glass breakage or defects
- Corners and edges
- Panel thickness
- Thin film and coatings
- Color
- Sheet resistance
- Barcode issues
- Spectral reflectance
- Data analytics and automation
- Go/No Go automated alerts

Our in-house lab can recreate the conditions of your production line.



Glass Inspection Testing Service



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About k-Space Associates, Inc.

k-Space Associates, Inc. (www.k-space.com) is a leading supplier of advanced metrology instrumentation and software used in research and production facilities around the world. Through extensive customer input, close collaboration with its worldwide customer base, and a strong commitment to unparalleled technical support, k-Space has developed today's most powerful thin-film and industrial metrology tools.