



## Integration and Rapid Prototyping

A primary innovator, and publicly traded company, in the development of laser-based equipment for imaging, analysis and fabrication, enabling interaction, analysis and materials modification at the nano-scale, had a need for a large multi-element array. Because of their involvement in homeland security, environmental and utility infrastructure industries, the customer was required to develop a system in a specific time frame in order to meet market demands and government proposal deadlines. This, in turn required API to rapidly design, test and validate prototypes to meet their commitments.

API responded with a complete solution within the 10 week lead-time necessitated by the customer. The product consisted of a 128-element photodiode integrated with two stages of amplification. The parts worked so well that a higher resolution device is currently in the design stage at API and targeted for prototyping. The customer believes that the increased resolution of the next generation devices will further their market lead and drive significant revenue recognition and growth.

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