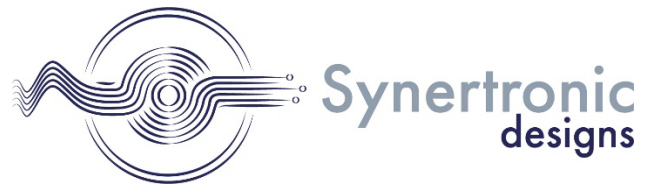


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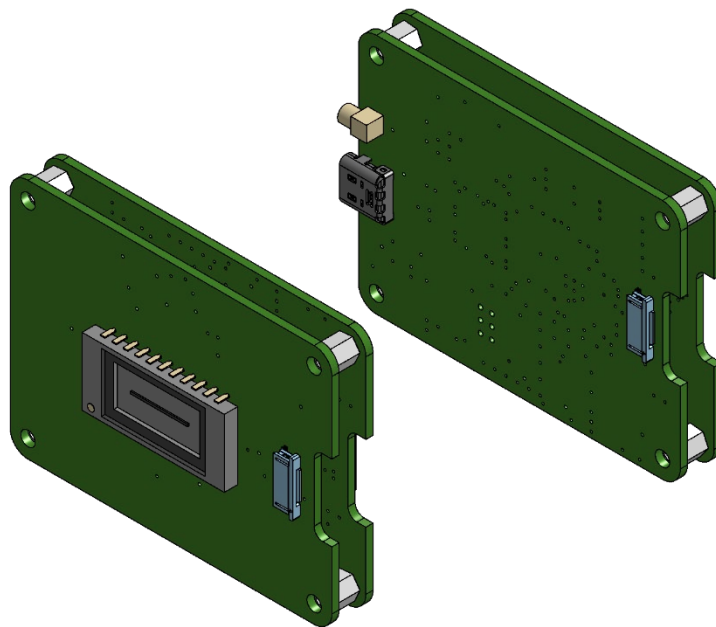
InGaAs OEM camera for material inspection



One of our clients requested a low-speed OEM version of our InGaAs cameras with G11620 sensor.

1. Challenge

OEM versions of InGaAs cameras are rare. In addition, the client had space constraints and the OEM solution had to be as small as possible.



2. Solution

The solution consisted of several key developments:

- To minimize the size, the OEM camera consisted of two PCBs - one for the G11620 sensor and one for the digitizer, processor and USB interface
- A low-noise ADC (analog-to-digital converter) was used to provide a line rate of 50 lines/s with an SNR of more than 5000
- A custom software API was provided to interface with the camera via USB

3. Impact

- **Cost-effective solution:** With our existing software and firmware infrastructure we provides custom OEM solutions at reduced cost.

- **Simplified hardware integration:** By collaborating with the customer the size of the OEM camera and location of connectors could be provided according to the customer's requirements. Also, by providing CAD models the client was able to integrate the OEM camera into his design even before receiving the first prototype.
- **Simplified software integration:** The custom software API significantly simplified implementing the solution in the client's software.