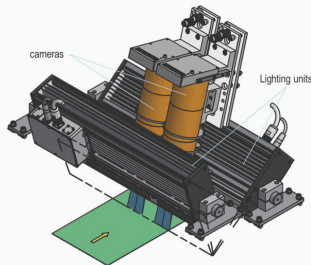
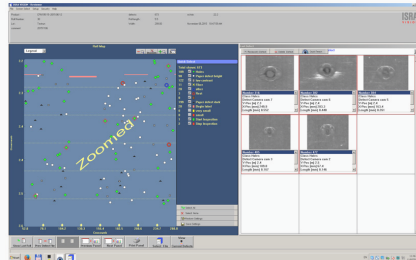


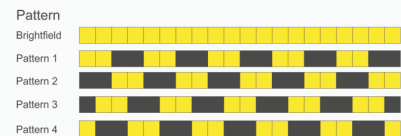
## High-speed high-resolution surface inspection



Typical system setup



High-speed in-line inspection



Illumination modes

ISRA VISION AG has cooperated with universities and research institutes like TUT, NPL and Fraunhofer in order to develop in-line surface inspection techniques for high-speed high-resolution roll-to-roll applications. These techniques are on the edge on what is possible with optical inspection today and as part of NanoMend were integrated into inspection systems for different sample applications.

### Key Innovative Features:

The surface inspection systems have three main features:

- Data processing performance of more than 640MB/s image data in one channel. ISRA has further developed the processing speed to 1.2 GB/s.
- Advanced multi-modal lighting techniques.
- Very high resolution down to 3µm for large surfaces.

The key advantage of the systems is the possibility to integrate these techniques towards high-end in-line inspection systems at an economical price.

Specifications	Value	Unit
Processing performance for image data	>650	MB/s
Resolution	≥3	µm
Illumination Modes	≤5	

### Markets & Applications:

The techniques are integrated into high-speed high resolution in-line surface inspection systems for a variety of applications such as barrier foil inspection, PV-foil inspection, coated paper inspection, glass inspection, special paper inspection and metal inspection.

**Commercialisation:** The technology is protected by pending patent EP 10 180 291

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