



EPIC Online Technology Meeting on Photonics for the **Food and Beverage Industry**

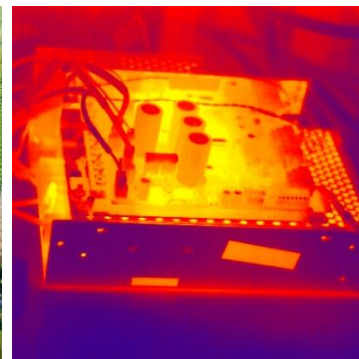
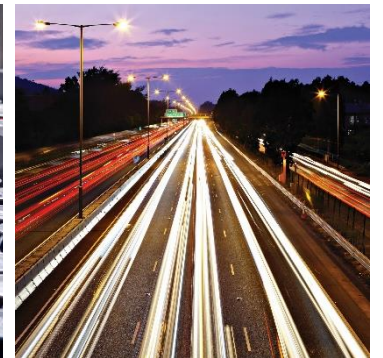
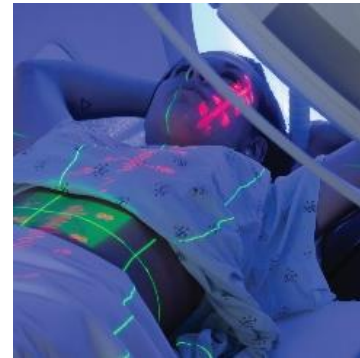
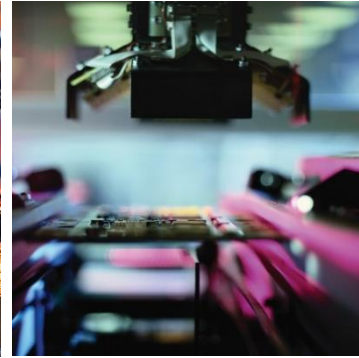
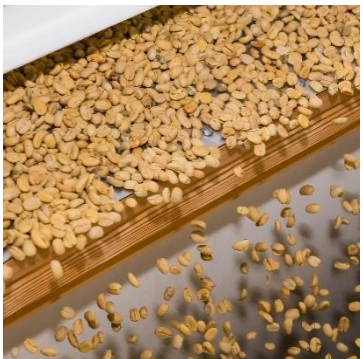
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TELEDYNE IMAGING

- » Leaders in machine vision
- » Broad portfolio of products—1D, 2D, 3D sensors, cameras, software, frame grabbers, thermal
- » Experience with food and beverage applications spanning over 20 years



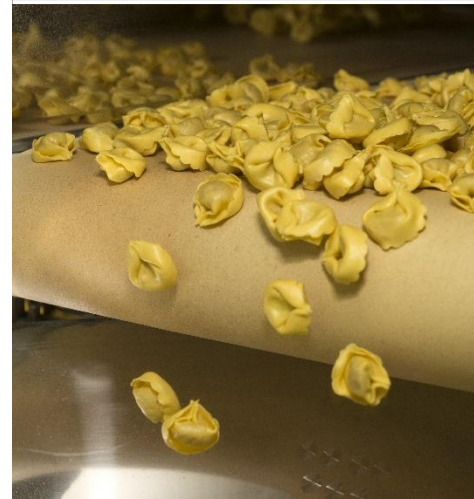
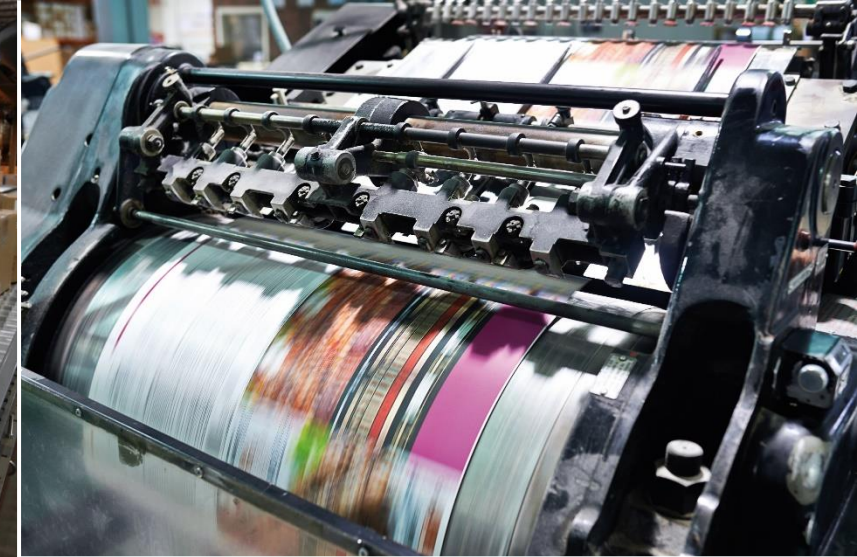
AREA SCAN

- » Multi-camera setups for whole fruit or vegetable inspection in lane sorters
- » Glass bottles
- » Seal inspection, cap inspection, label inspection...
- » Genie Nano



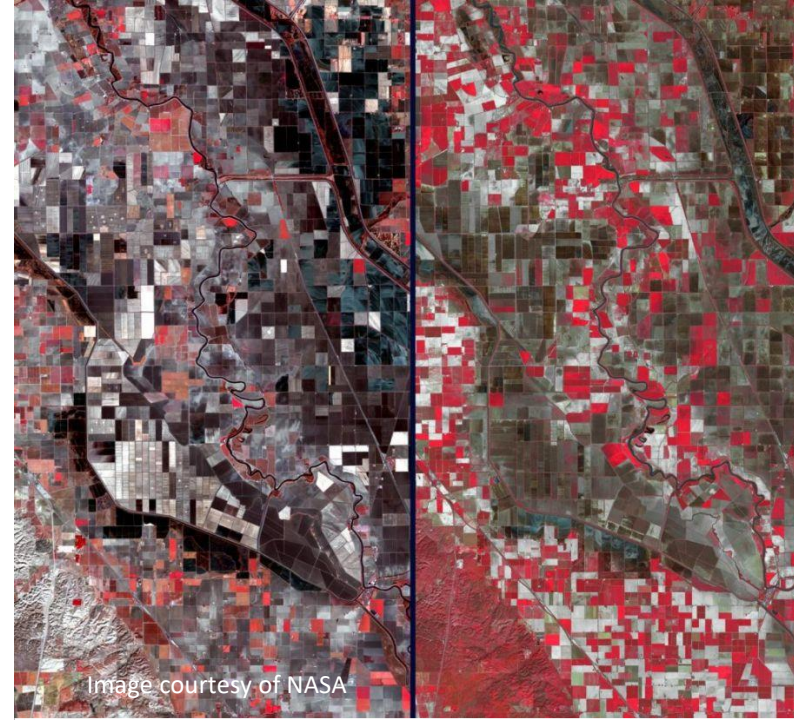
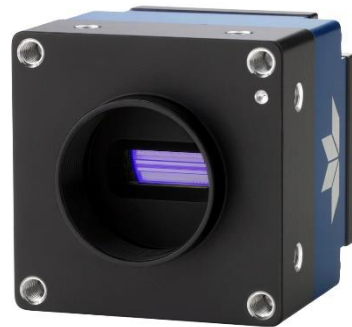
LINE SCAN

- » Mono or color for high resolution and high speeds
- » RGB + NIR to improve detectability of foreign materials like glass and silica gel
- » Sorting
- » Packaging
- » Printed Labels
- » Linea, Linea Lite, Linea 2, Tetra



LINEA SWIR

- » SWIR
- » Improved ability to differentiate like colors
- » Ability to detect moisture—indicator for bruising, spoilage, leaks
- » Detect foreign objects, increase yield, reduce waste, improve quality
- » Linea SWIR



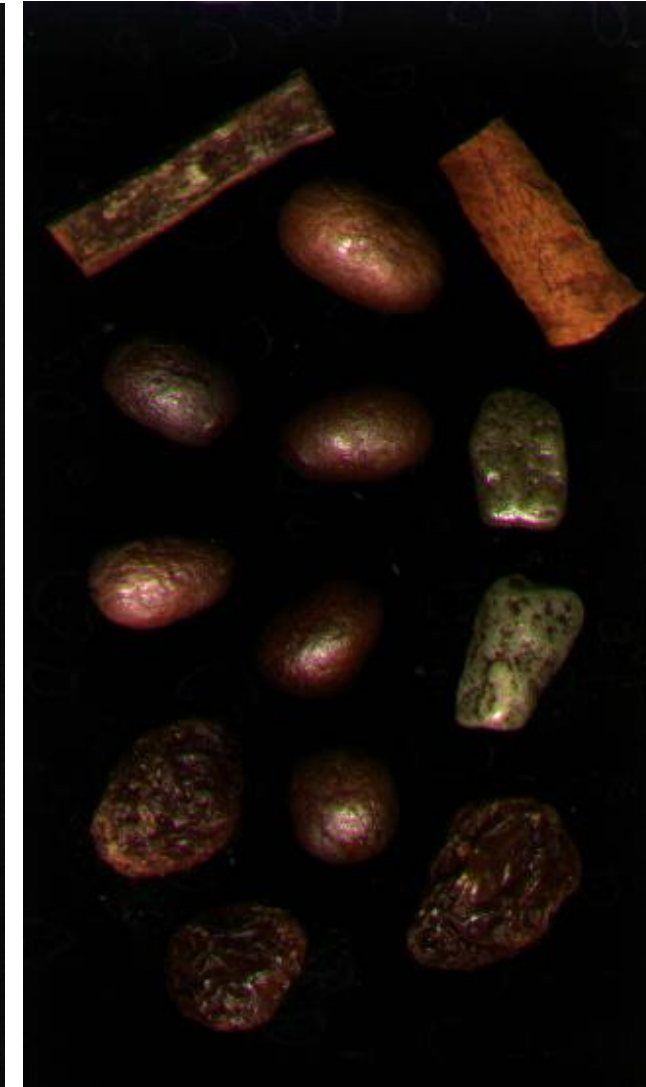
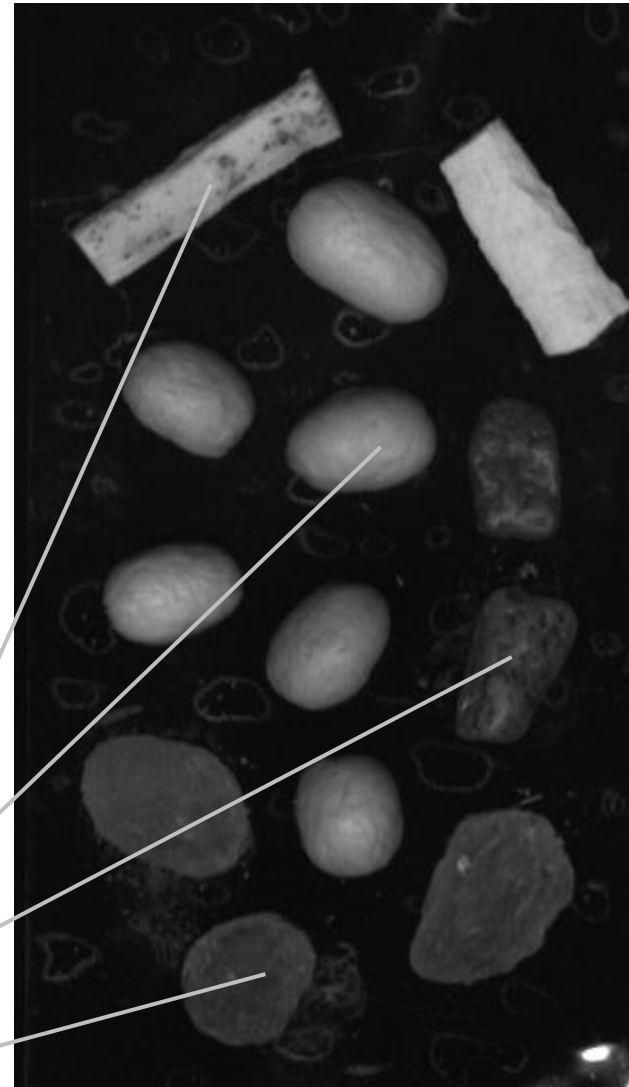
Application Example:

FOOD SORTING



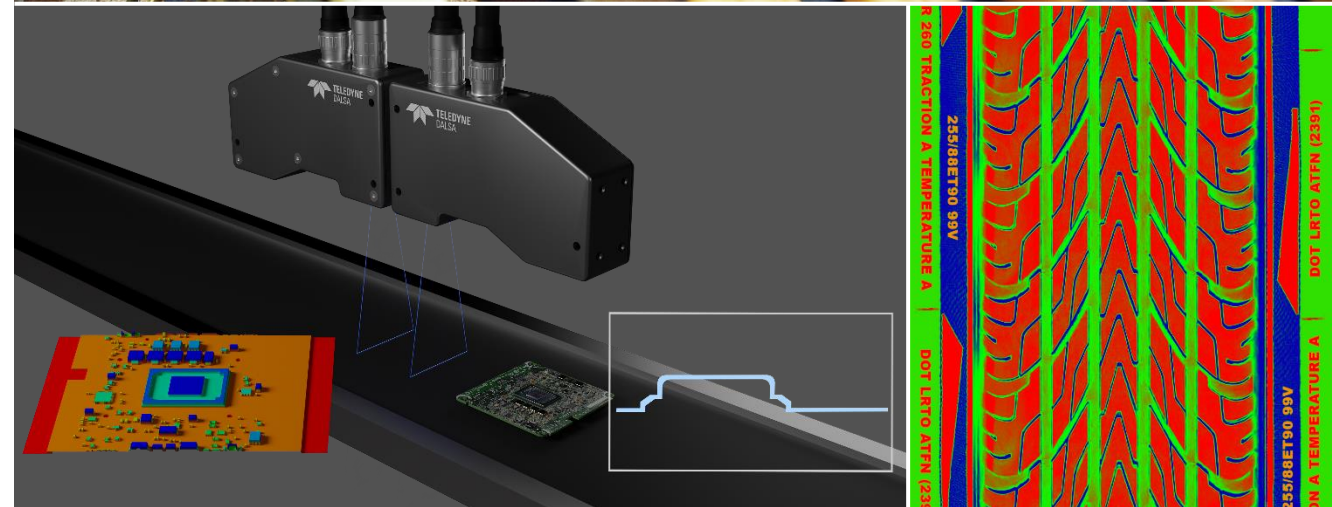
- » Moisture Content
- » Bruising
- » Foreign Objects
- » Increase Yield
- » Reduce Waste
- » Improve Quality

- Cinnamon
- Coffee Bean
- Rock
- Raisin



Z-TRAK

- » The **Z-Trak** 3D laser profiler delivers high-resolution, real-time height measurements using laser triangulation
- » Can be used to make volumetric measurements of pieces of meat, cakes (for symmetry for example), or baked goods like cookies, prior to packaging





Questions & Answers



Thank you

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