

## Inspection & Decision Making

**Your partner in product inspection, analysis, process monitoring and control**

To increase your product yield and overall quality, OpTek offers all the standard features of video and other remote inspection methods together with original thinking and innovative solutions to data collection and processing, and access to a broad range of less mainstream technologies. Applications include:

- Targeting, aligning, measuring & process control
- Sorting, grading, locating & positioning

### OpTek Systems as a partner in your quality control

- Control and monitor quality – increase inspection rates to trap fault conditions and spot trends early
- Increase yield by modifying a follow-on process to steer product closer to target values of key product parameters (process solution)
- Fully integrated or off-line options
- Develop suitable techniques for *your* product in close collaboration – OpTek believes in partnership

### Part Handling, Presentation & Illumination

Conventional part-handling and inspection technologies are limited in what can be measured in production-line applications. OpTek greatly increases the range and fidelity of what can be measured by offering:

- Dedicated bulk feeding and presentation of components for inspection
- Handling of components down to sub-miniature sizes in one, two or three dimensions

### Video Inspection

- Standard features include shape search and recognition, alpha-numeric character recognition, ROI definition, calibrated measurements, image filtering
- Innovative image gathering and illumination techniques – inspect difficult to view or inaccessible areas of your product
- Composite image generation – create images that you cannot see through a microscope
- Augment with laser line generation, projected images and arrays, specialist detectors

### Other Optical Methods

- UV and laser induced fluorescence
- Laser induced ultrasonic generation and detection
- Laser probing of geometrical, physical and optical characteristics of transparent materials
- Spectrum / colour analysis
- Laser-induced breakdown spectroscopy.

