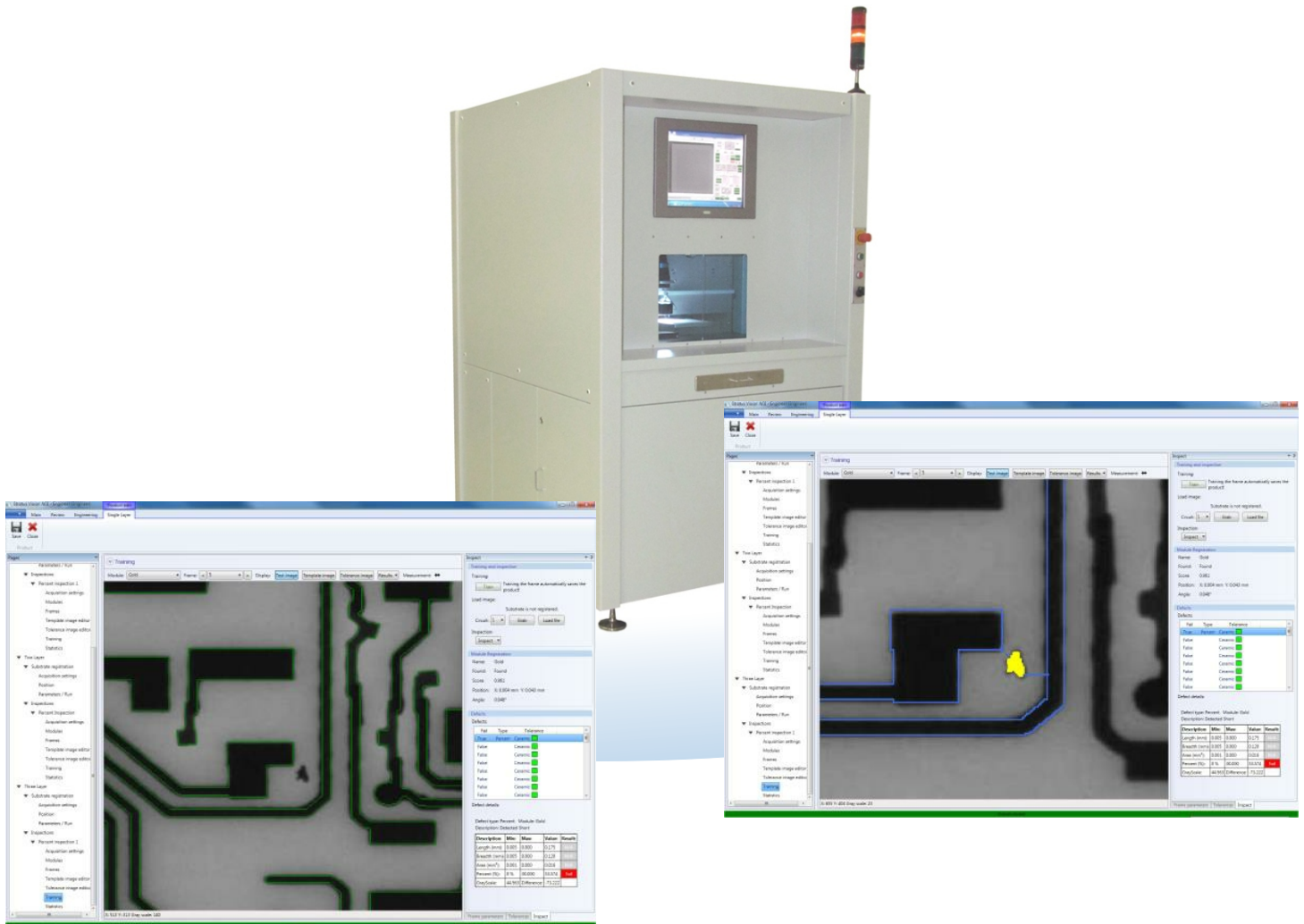


# Print inspection system

## KVI-10



- Designed for inspecting prints on green ceramic sheets
- Inspect wet and dry prints, via holes
- High inspection resolution
- Advanced illumination and vision algorithms
- Detects shorts, opens, neck downs, mouse bites, screen stretch, screen misalignment, contamination

Designed for fine lines screen print inspection

Screen print inspection system is specially designed to inspect prints in multilayer green ceramic productions such as LTCC, HTCC, MLCC, MLCI and others. It can be used also in thick film production, for vias inspection, etc., After print product is placed on inspection table. Inspection table moves in to machine where product is illuminated according to programmed parameters. A high resolution camera takes image of print. Advanced software inspects taken images for defects.

Inspection software is based on golden template comparison. The golden template can be constructed using CAD GERBER Data.

The system accepts BMP files and Gerber files and can also be trained using multiple images of good parts.

The user defines a number of registration points to locate the print on the substrate, this is used to align the system to the template and compare the images for defects. Using these registration positions the system can also detect print misalignment, screen stretch or distortion.

The software provides statistical information, this information can be compiled in regard to defect type (conductor defects, resistor defects, alignment defects, solder pad defects, etc.) or using the occurrence in position of defects on the circuits. This statistical information can be exported to XML file. The database and the results are available to the user.

After inspection is done, inspected product moves out of machine and necessary information are displayed on the monitor.

An inline version is available for automatic print inspection on Keko automatic screen printers.



## Technical specification:

- Max. inspected area: 220 x 220 mm
  - Inspection resolution: 10 microns
  - Average inspecting time for 6 x 6 inch area: 25s
  - Illumination: top / bottom programmable, adapted for particular product
  - Control: PC
  - Number vision cameras: 1
  - App. dimensions: L x W x H: 0.8m ( 32 inch) x 0.8m ( 32 inch) x 1.7m ( 70 inch)
  - Weight: app. 600kg
  - Electricity: 200-240V~, 50/60Hz, or according to the customer requirements
  - Power: app. 1 kW,
  - Compressed air: 0,4 MPa, 100L/min.
  - Vacuum: generator included
- Options:
- Custom product fixtures, illumination, bigger inspection area

### How to order:

#### Machine type

# KVI-10

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Contact supplier for special requirements.