

Merlin

Benchtop AOI System



Prey
By Detech

Merlin Benchtop AOI System



Our range of Automated Optical Inspection systems by our new product line by Prey are a direct result of a partnership between Detech Europe and Dayco Developments. The two partner companies have many friendly and innovative solutions for a global electronics manufacturing market but also a desire to offer the end user the best possible return on investment available today.

Our AOI range offers a price competitive solution that makes full inspection capabilities accessible to almost every budget without sacrificing functionality and ease of use.

Our Hi-Res Benchtop system, Merlin, offers a 5MP camera with a telecentric lens to give the user incredible inspection flexibility. The usual high level software you would expect in today's market is present with our full 64bit user interface. The ability to capture almost any known fault combined with a very aggressive price point makes this an industry leader in more than one way.

Prey combines all of its systems with our tried and tested rework and traceability solutions to give any user a complete picture of their manufacturing process.

Contact us for more information or to request a live demonstration at sales@detech-europe.com or call us on +44 (0)1262 409944.

Detech Europe Limited

The Farm Office, Model Farm, Atwick Road, Bewholme, East Riding of Yorkshire, YO25 8DT
Email: sales@detech-europe.com Tel: +44 (0)1262 409944 Website: www.detech-europe.com

Merlin

Benchttop AOI System



Merlin Benchttop AOI System

Physical Specification

Dimensions	960mm x 980mm x 440mm (38" x 39" x 17")
Weight	80kg
Power Consumption	3 Amps/240V
Power Requirements	240V/1000W
Air Consumption	N/A
Operating Temperature	20°C to 40°C
Lighting	Multi-coloured concentric LED light rings

Software Specification

Inspection Capabilities	01005 package and 0.3 pitch
Internal Printer	Tallyroll printer for inspection fault summary
Software Modules	1st off verify BOM, manual comparator inspection, offline rework & programming, report and statistical analysis
Security Levels	Supports 3 user levels to limit operator access to advanced features when required
Barcode	Optional: All common formats can be read through the camera for traceability

Camera Specification

Camera	Telecentric Lens System. 5MP colour CCD (optional 4MP large format sensor available to match existing systems)
Camera Interface	Gig-e 1000Mb/s (4MP option Firewire 1394b 800Mb/s)
Field of View	23.5 x 23.5mm (4MP option 22 x 22mm)
Resolution/Pixel Size	11.7 um
Camera Orientation	Top Down
Movement	Camera moves in all directions suspended from a gantry

Board Specification

Maximum Board Size	475mm (W) x 450mm (L)
Fiducials	All systems are capable of 3 fiducial correction allowing for board positional error, rotation and stretch or shrinkage
Board Clearance	Top - 40mm, Bottom - 40mm
Board Handling Method	Fixed side and front arms, sliding back arms (multiple back arms can be installed)
Laser Profiling	Optional: For 3D profiling of component surfaces and legs, resolution 12um
Linear Drives	Micro stepping motors for high accuracy and repeatability

Detech Europe Limited

The Farm Office, Model Farm, Atwick Road, Bewholme, East Riding of Yorkshire, YO25 8DT
 Email: sales@detech-europe.com Tel: +44 (0)1262 409944 Website: www.detech-europe.com