

Falcon

Benchtop AOI System



Prey
By Detech

Falcon 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 an 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 very budget without sacrificing functionality and ease of use.

Our flagship inspection system, the Prey Falcon offers all the capabilities of machines more than twice the cost. A full inline camera based system with the ability to inspect almost any component. The Falcon combines excellent mechanical stability with the latest in 64bit software to give a truly unique inspection solution found anywhere in today's global market.

Prey combines all of it's systems with our tried and tested rework and trace-ability 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

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Falcon

Inline AOI System



Falcon Inline AOI System

Physical Specification

Dimensions	1000mm x 1245mm x 1595mm
Weight	
Wattage	1800W
Voltage	220V
Air Pressure	0.6MPA
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 - 20mm, Bottom - 40mm, Edge - 3mm
Board Handling Method	Fixed front rail, Automatic adjustable back rail including width memory functions
Laser Profiling	Optional: For 3D profiling of component surfaces and legs, resolution 12um
Linear Drives	Micro stepping motors for high accuracy and repeatability

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