



Prey By Detech



Falcon Inline AOI System
Machine Brochure



Falcon Inline AOI System

Developed in the UK and distributed worldwide, the Prey range of equipment by Detech Europe Limited is a continually developing and improving windows 11 based software interface combined with a quality

Based upon Detech's many years of experience in the electronics manufacturing sector, the Prey range is designed to offer customers what they want and need, while keeping costs down and implementation simple.

The Prey AOI range offers a price competitive solution that makes full inspection capabilities accessible at almost every budget without sacrificing functionality and ease of use. Our systems have been optimised for remote support to enable us to get our customers answers fast, meaning their manufacturing process can have maximum up time.

Our flagship inspection system, the Prey Falcon, offers all the capabilities of machines more than twice its 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 one of the most truly unique inspection solutions found anywhere in today's global market.

The Falcon Inline AOI is now available in a larger format to handle larger boards, this offers a new maximum width of 625mm and a length of 680mm. With full optical configuration of 5MP or 12MP cameras combined with 6,10 or 15 micron lenses, Prey AOI systems offer complete flexibility for your application requirements.

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

In addition to the standard features, the Prey By Detech Falcon offers complete program compatibility with the Merlin Offline AOI, the software interface remains the same across both platforms, the offline programming software and the rework software so no retraining of operators or programmers is required when switching from our previous systems.

All of our systems feature 3 fiducial correction, allowing for stretched, shrunk and skewed PCBs.

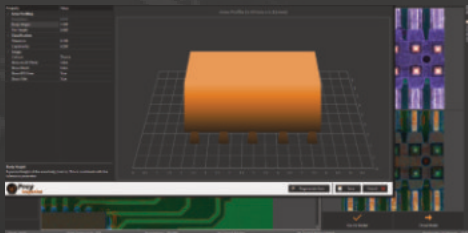


Our bespoke, in-house developed software features a unique Analysis button that allows the software to work with you and train component fluctuations with ease. This feature combined with our Optimise button allows you that have very tight control on your pass rate tolerances meaning you can drastically reduce any false calls.

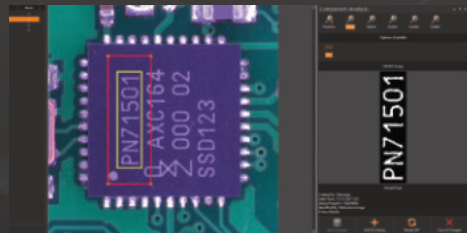
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Contact us for more information or to request a live demonstration at sales@detech-europe.com or call us on +44 (0)1262 409944

Truly Unique 2D Inspection



Height Measurement System



Easy To Program



Windows 11 Compatible

Technical Specifications

Camera

12MP 5 GigE Camera As Standard

Lens

Standard: 15um (FOV: 36mm²), Optional 10um

Lighting

5 Colour Lighting Ring (RGBW/UV)

X / Y Movement

AC Servo Motor Ball Screw and Linear Rail

PC Configuration

Intel Core i5 Processor, 16GB DDR4 Memory, 1TB SSD

Power Supply

1P, 220V - 240V, 50/60Hz, 10A, 1.5kw

Machine Dimensions

1,000mm x 1,200mm x 1,744mm

Machine Weight

795kg

Operating System

Windows 11

Programming

CAD File Loading, Manual Teaching

Statistic Data Function

Integrated SPC Software

Minimum PCB Size

50mm x 50mm

Maximum PCB Size

510mm x 460mm (Larger Option: 680mm x 625mm)

Component Clearance

Top: 70mm, Bottom: 70mm

Clamping Edge

> 3.0mm

Component Inspection Tests

Missing, Reversed, Shift, Damaged, Skew, Tombstone

Solder Inspection Tests

No Solder, Insufficient/Extra Solder, Solder Bridge

Smallest Component

Chip: 0201 (15um Lens) ChipL 01005 (10um Lens)

Barcode Reader

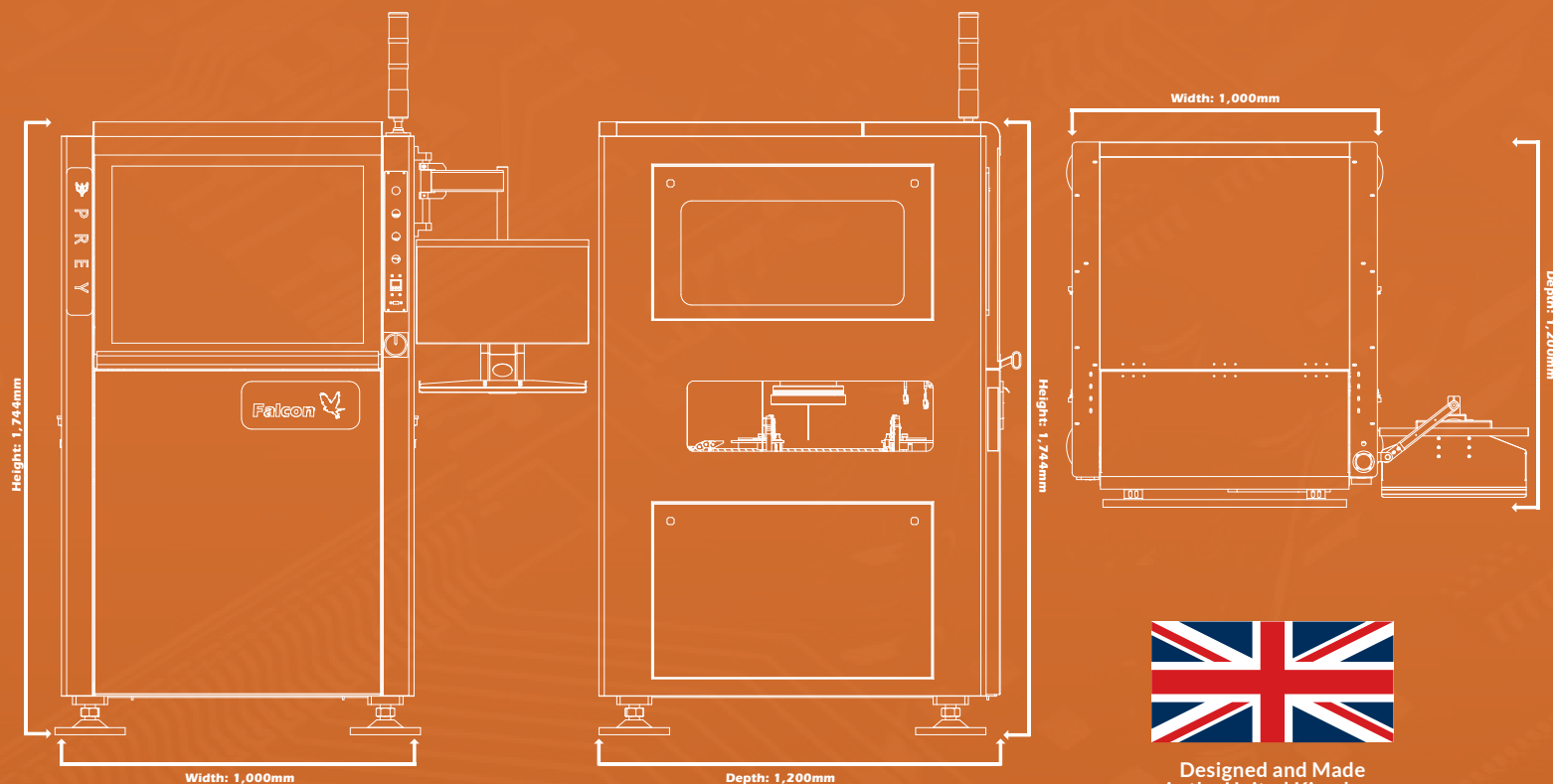
1D or 2D Barcode Reading Via The Camera

Laser Height Measurement

Optional Laser Height Measurement System

Optional Stations

Offline Programming Station, Rework Station



Designed and Made
in the United Kingdom



Cost Effective Inspection Without Compromise



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