



Prey By Detech



Merlin Offline AOI System
Machine Brochure



Merlin Offline 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 Detechs 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.

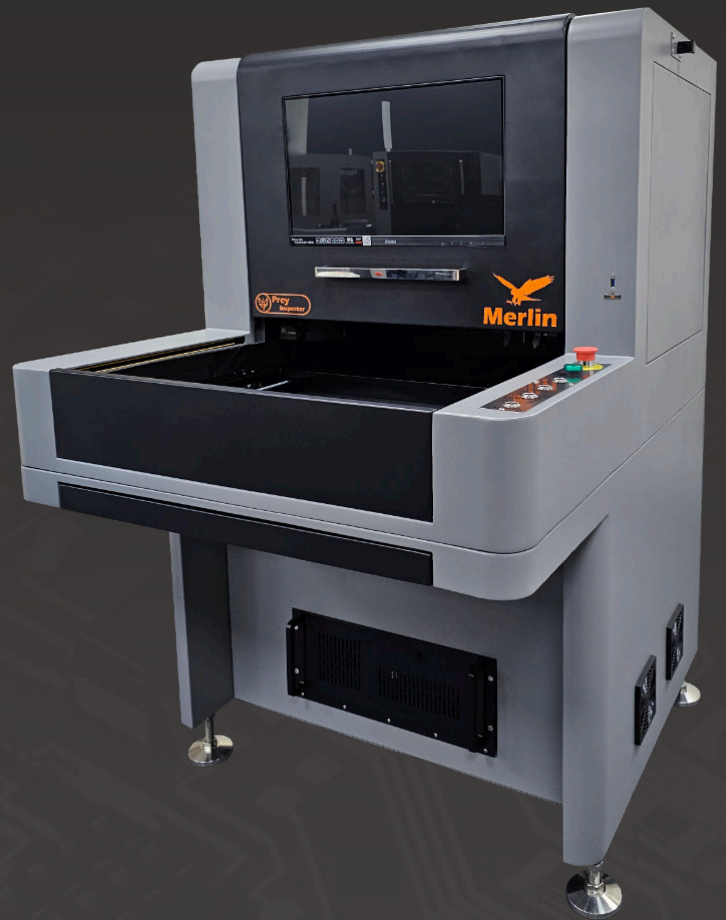
The Prey AOI range offers a price competitive solution that makes full inspection capabilities accessible at almost every budget without sacrificing functionality and ease of use. Our systems have been optimised for remote support to enable us to get our customers answers fast, meaning their manufacturing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

Our offline inspection system, the Prey Merlin, offers all the capabilities of machines more than twice the cost. Using a 5MP camera as standard, the system gives the ability to inspect almost any component. A robust yet flexible universal carrier system gives the user the flexibility to quickly insert a PCB up to 450mm x 350mm, clamp it and inspect with the press of a single button, once complete the PCB is returned to the load point ready for the next PCB to be loaded.

The Merlin includes full 1D and 2D barcode reading as standard to offer a fully traceable solution that can be combined with the user-friendly Prey rework suite. The Merlin 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 Merlin Offline AOI is now also available as a large format system to support larger boards, this offers a new maximum width of 625mm and a length of 680mm.

With fully 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.

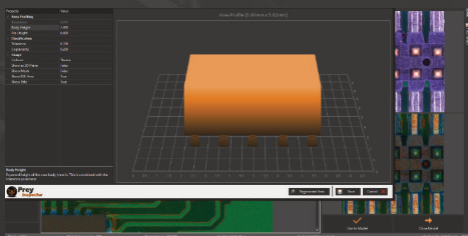


Prey combines all its systems with our tried and tested rework and trace-ability solutions to give any user a complete picture of their manufacturing process.

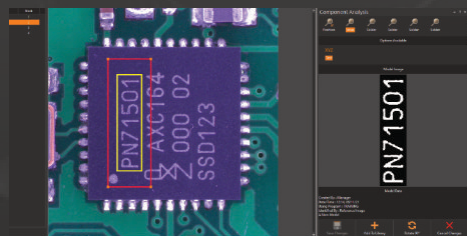
The Merlin is an all new dramatically improved system for 2022 and is a constantly evolving as our development team tailor to our customer's needs.

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 Camera as Standard

Lens

Standard: 15um, Optional 10um or 6um

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, 480GB SSD

Power Supply

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

Machine Dimensions

973mm x 1,911mm x 1,535mm

Machine Weight

400kg

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

450mm x 350mm (Larger Option: 600mm x 360mm)

Component Clearance

Top: 40mm, Bottom: 40mm

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

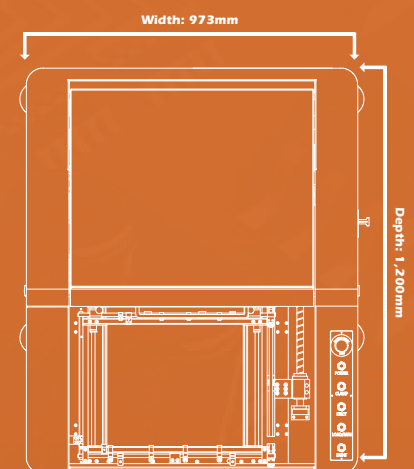
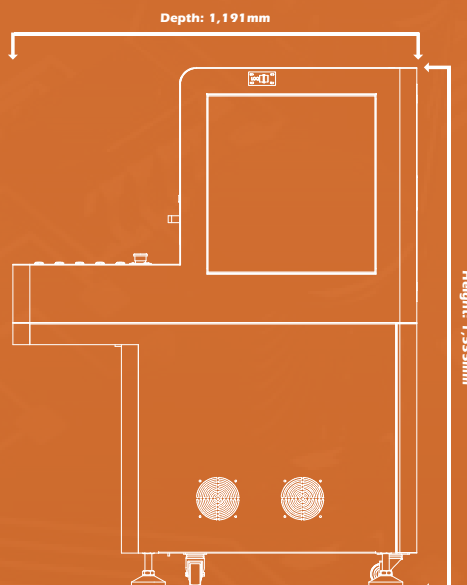
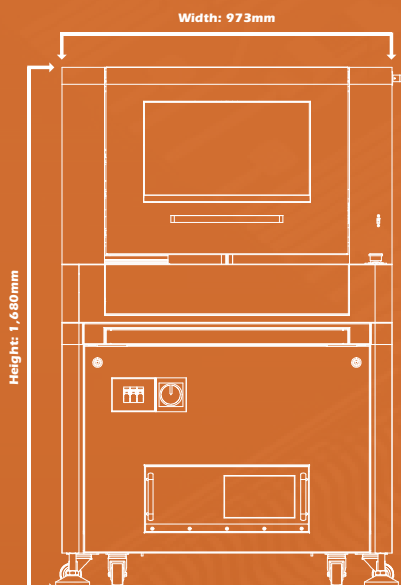
1D or 2D Barcode Reading Via The Camera

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

Prey By Detech Limited

The Farm Office, Model Farm,
Atwick Road, Bewholme,
East Riding of Yorkshire,
United Kingdom

Phone: +44 (0) 1262 409944

Email: sales@detech-europe.com

Website: www.detech-europe.com