Prey
By Detech

Universal Product Inspector

Product Verification System

The Prey By Detech Universal Product Inspector (UPI) is our latest equipment development that uses our many years of vision and software expertise to provide a cost effective versatile visual inspection system.

For many years the industry has concentrated on inspecting and checking products as they are manufactured and often left the final inspection to human operators. The control of this process has until now been left without any automated inspection being considered due to a lot of this being very bespoke. Prey have looked to tackle this and the result is the Universal Product Inspector (UPI).

Prey wanted to design a system that was incredibly easy to use while remaining accurate, flexible and repeatable across every industry when human inspection is presently being implemented.

The UPI can be used in many different areas of industry where final repeatable product quality is required. This system is truly universal and can be used for inspecting almost anything. The system can inspect both sides of an assembly in sub 4 seconds.

In addition to the standard features, the Prey By Detech UPI offers the same bespoke software interface used across the Prey Inspector range allowing for ease of training to both new and existing customers.

The Prey, 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 to use AI to create the most optimum inspection parameters giving you total control of your pass rate tolerances.

An exceptionally easy user interface allows for ease of programming with control of all parameters and tolerances meaning that a bespoke system is given by an almost standard out of the box solution.

Different options are available to allow for thousands of different application, these include standard to specialised optics and cameras as well as tailored jigs that can be created in hours rather than weeks.

Our UPI is built around our long established Prey Inspector software, providing an intuitive user experience to help both operators and programmers navigate the software with ease and feel at home with the Windows styled interface.

Please contact your local distributor for more details on a system that uses simplicity to deal with the complicated.
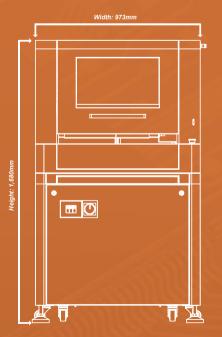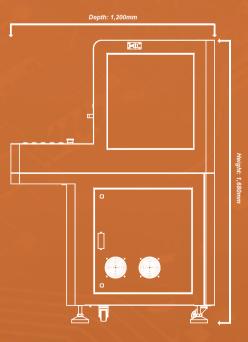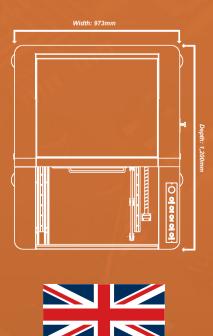
Inspect Almost Anything...

Technical Specifications

Camera	Top and Bottom 20MP Basler Camera
Lens	Variable Telecentric
Lighting	Top and Bottom White Light Ring
X / Y Movement	AC Servo Motor Ball Screw and Linear Rail
Z Axis Height	Adjustable Head Axis
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 1,200mm x 1,680mm
Machine Weight	450kg
Operating System	Windows 11
Programming	Manual Teaching, Existing Edit
Statistic Data Function	Integrated SPC Software
Minimum Product Size	30mm x 30mm
Maximum Product Size	350mm x 230mm Standard, Larger Options Can Be Customised
Maximum Product Thickness	80mm Standard, Larger Options Can Be Customised
Clearance	50mm Top and 40mm Bottom
Barcode Reader	1D or 2D Barcode Reading Via Camera, QR Code Option Available
Optional Software	Offline Programming or Offline Review

Width: 973mm

Depth: 1,200mm

Width: 973mm

Height: 1,680mm

Height: 1,680mm

Depth: 1,200mm

Designed and Made in the United Kingdom

Prey
By Detech

Cost Effective Inspection Without Compromise

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