



PREY



**Universal Product Inspector
Machine Brochure**



Universal Product Inspector

Product Verification System

The Prey 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 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.



The UPI offers full traceability by providing full reporting either using the integrated SPC data analysis tools, or use our external reporting features with either with automatic PDF generation with a live capture of the inspected product, highlighting any failures in the report or use the standard CSV output feature to generate a live CSV file to import data into external systems or allow for additional data manipulation for complete flexibility.

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.

The Universal Product Inspector is also available as an inline solution to provide a truly automated and universal inspection further simplifying any final assembly inspection process while maintaining full traceability across all products and inspections.

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

Inspect Almost Anything...



Technical Specifications

Camera

Lens

Lighting

X / Y Movement

Z Axis Height

PC Configuration

Power Supply

Machine Dimensions

Machine Weight

Operating System

Programming

Statistic Data Function

Minimum Product Size

Maximum Product Size

Maximum Product Thickness

Clearance

Barcode Reader

Optional Software

Top and Bottom 20MP Basler Camera

Variable Telecentric

Top and Bottom White Light Ring

AC Servo Motor Ball Screw and Linear Rail

Adjustable Head Axis

Intel Core i5 Processor, 16GB DDR4 Memory, 1TB M.2 SSD

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

973mm x 1,200mm x 1,680mm

450kg

Windows 11

Manual Teaching, Existing Edit

Integrated SPC Software

30mm x 30mm

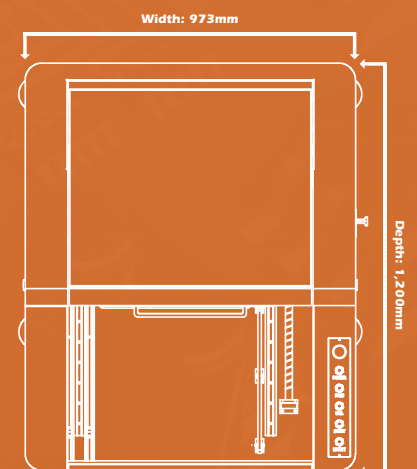
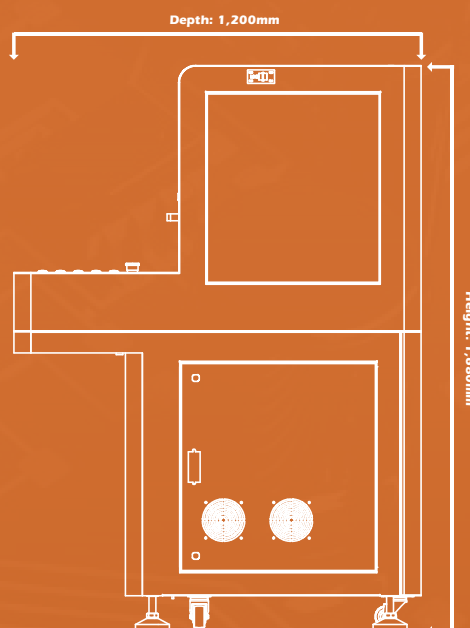
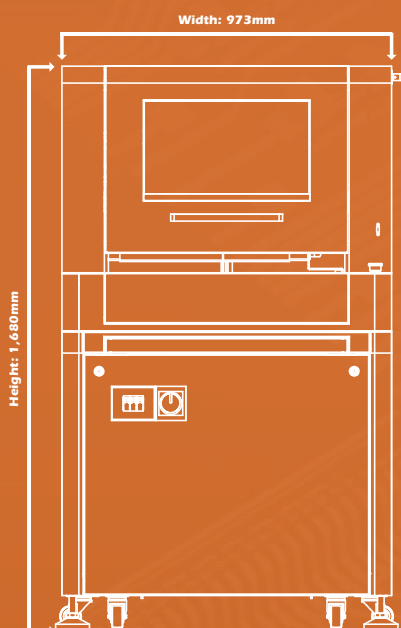
350mm x 230mm Standard, Larger Options Can Be Customised

80mm Standard, Larger Options Can Be Customised

50mm Top and 40mm Bottom

1D or 2D Barcode Reading Via Camera, QR Code Option Available

Offline Programming or Offline Review



Designed and Made
in the United Kingdom



PREY

Manufacturing Without
Compromise



Prey Limited

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