GENUS
preservation with artistry

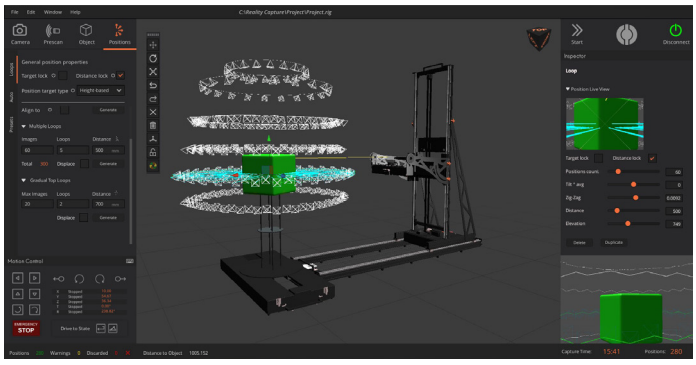
Arago 3D Digitisation Unit

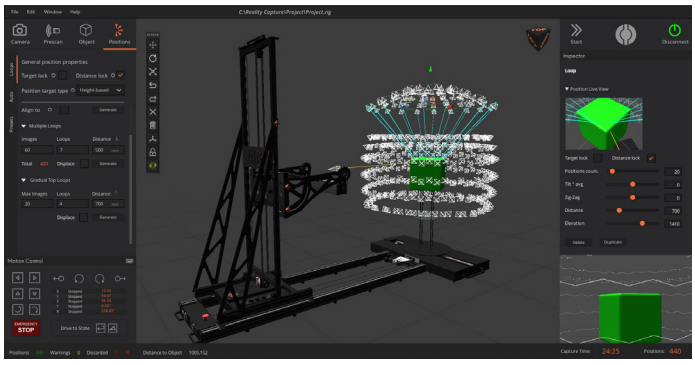
The Arago 3D Digitisation Unit

Has been developed by RIGSTERS in Denmark
GENUS is the UK and Ireland distributor

Photogrammetry

Photogrammetric scanning is the primary choice for most of our projects. In its essence, it uses pixels of digital images to reconstruct objects in 3D. Latest developments in computer vision allowed this technology to reach extreme geometrical detail, while maintaining photorealistic high resolution colour information. When needed, we make use of laser or structured light scanning methods and their combinations with Photogrammetry for achieving best results.





Arago Control

3D interface powered by a digital twin of Arago visualises the real-time operation with high fidelity. Camera control provides tethered and camera-agnostic options for adjusting your camera settings on the go.

Camera calibration features assure the exact placement and properties of virtual cameras.

Object Prescan quickly reads the shape, curvature and position in space of your object. Establishing a proxy 3D model facilitates optimal camera position generation.

Position generation tools enable you to easily produce the optimal capture set with adaptive amount and coverage of positions.

A flexible generation algorithm calculates camera positions by accounting for the shape of the object, surroundings, and user-defined settings.

Large & Small Objects

Flexible object volume varying between 5–180 cm depending on the configuration of the turntable module and camera field of view.

360 degree turntable with a side to side motion and a payload of 80kg. It comes with 30–60 cm extension modules for additional object elevation and flexible mounting options.

Detachable turntable module enables capture of larger objects and ensures absolute safety.

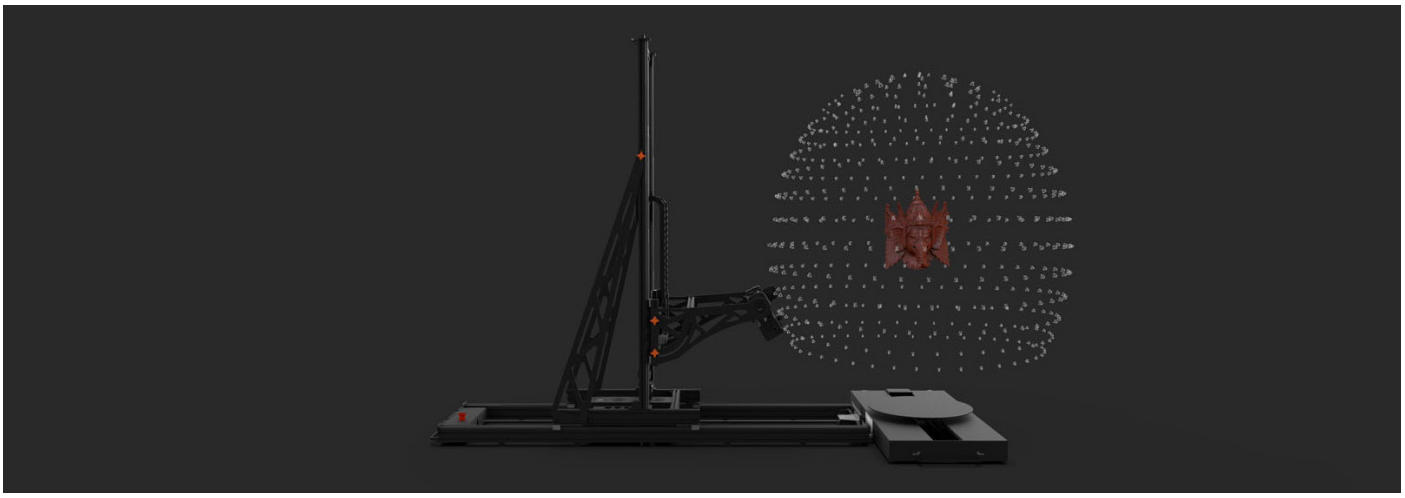
Camera tilting component provides additional reach around the scanning area and can accommodate up to 10kg of equipment.

Portable Design

2-minute assembly (or disassembly) time thanks to the intuitive foldable design.

Durable and robust construction of Arago ensures longevity and stable 24/7 operation. Shockproof flight case is custom-made to suit the Arago unit.

It includes a storage compartment to accommodate all the accessories.



Fast and Effecient

5-axis design driven by high quality stepper motors provides precise and fast motion.

Dedicated software Arago Control

Generates an optimal distribution of image capture positions for your object. Arago Control significantly de-creases the capture time, improves data quality, and optimises the quantity required. Backed by advanced path-finding algorithms that account for your setup, Arago Control enables travelling through positions in a timely yet safe manner.

Quick training

Enables any user to start operating Arago with ease thanks to an intuitive software interface and user friendly hardware design.

Adjustable motor speed control

Helps with refined motion of more delicate objects.

Capture Speed Calculation

A multitude of variables such as your camera settings, flash recycle, object size and the number of images required to reach the desired quality are taken into account when estimating capture time.

For example: An object such as a standard-sized shoe when captured using 300 images/positions at about 50cm distance requires approximately 13-15 minutes depending on your camera settings. When 700 positions are used to capture the same shoe, requires approximately 20-25 minutes.

Get in touch

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