

Specification and scope of supply of Opti-Scan 1000.35

| Description | Specification/scope of supply |
|---|--|
| Max Single scan area ^{1&2} | 1000mm (X) x 625mm (Y) |
| Max Single scan depth* ^{1,2&3} | 625mm (Z) |
| Volumetric accuracy** | 75 microns |
| Repeatability** | 35 microns |
| Point Spacing | Better than 210 microns |
| Scanning speed*** | > 250,000 points per second. |
| Scanning time**** | < 10 seconds |
| Processing time**** | < 5 seconds |
| Peripheral equipment | USB lighting controller, Standard Computer Interface |
| Recommended Operating System | Windows 10 64bit |
| Software included: | 3D scanning, automated repositioning, texture map acquisition, 3D color rendering, creation of cross-sections, creation of 3D edges, reverse engineering of 3D edges to DXF/DWG, comparison of 3D edges to DXF/DWG, reverse projection of colored deviation reports onto part, creation of 3D point clouds in PLY, STL, VRML, ASCII formats, creation of texture mapped point clouds, calibration software. |
| Free 3D Inspection Software: | Fully compatible with off the shelf free 3D inspection software. Functionality includes comparison to 3D solid models, dimensioning, GD&T, cross-sections, full surface deviation inspection, merging of scans, customizable reports, automatic alignment of scan to CAD, point cloud meshing, processing and filtering, extraction of nominal data from CAD model, comparison of 2 scans. |
| Advanced 3D inspection software option (Geomagic Control) | Available on request. Comparison to 3D solid models, GD&T, SPC, cross-sections, full surface and edge inspection, creation of report templates, automated merging of point clouds, automatic alignment of scan to CAD, automatic point cloud processing and filtering, automatic detection or repositioning spheres, macro creation for full automation, automatic extraction of nominal data from CAD model, comparison of 2 scans. |
| 3D reverse engineering (advanced package) | Available on request. Creation of 3D solid models from scan data. |
| Calibration Kit | Included as standard, retro-reflective reference markers mounted onto steel plate with repositioning frame |
| Accuracy Verification Object | Included as standard, calibrated ball bar |
| OptiScan enclosure | Heavy duty aluminium tripod, dolly base. Camera and projector assemblies mounted on floating carbon fibre chassis |
| Repositioning markers | ABS Carbon fibre effect |
| Optional light table | Set of 24 loose magnetic photogrammetric markers to allow repositioning |
| Automated turn-table maximum load (UDL) | Optional light table for improved edge measuring accuracy. Manual or automatic component repositioning disc options |
| Camera | 50kg |
| Projection source | >20 megapixels |
| Data cables | LED/laser projector. |
| Power supply | HDMI and USB3 |
| Power consumption | 110-240V 50/60Hz |
| EC directives | 1.5 Amp maximum at 230 Volt, 3 Amp max at 110 Volt. |
| Paint colour (powder paint) | Compliant with Machinery, Low voltage and EMC Directives. |
| Ambient operating conditions | Tripod and Dolly RAL 9005: Black Light table RAL 5013 (cobalt blue) |
| Available configurations | 5-35 degree C |
| Approx Footprint width/ depth/ height/ weight | L= Light Table A = Automatic Repositioning disc M = Manual Repositioning disc |
| Approx Footprint width/ depth/ height/ weight | 1124mm (W) x 791mm (D) x 1574mm (H) <45kgs (Tripod) |
| Standard packing | 3154mm (W) x 1469mm (D) x 2005mm (H) <1000kgs (LM & LA) |
| Warranty | Export crate suitable for sea shipping |
| Optional extended warranty | One year limited warranty on hardware and software |
| Software support option | Two or three year extended warranty (requires software upgrade option) |
| | Annual support contract provides free software upgrades |

1 Larger parts can be measured with multiple scans

2 Other sizes are available on request, exact dimensions may vary by slightly depending on setup.

3 Other accuracies are available on request

*Actual scanning range will be significantly larger, however measurements outside of this range may have additional noise.

**Accuracy achieved by measuring a reference object at various locations within the measuring volume, contact InspecVision for further details.

***Time taken to measure a typical component. Results may vary depending on part measured or speed of computer

****Time taken to process the measurements of a typical component. Results may vary depending on part measured or speed of computer.

Actual measuring accuracies achieved will depend on operating environment, user input, quality and condition of materials

Due to our policy of continuous improvement specifications are subject to change without notice, please contact factory or your InspecVision dealer



Manufacturer:

InspecVision Ltd

10 Trench Road
Mallusk

Co Antrim BT36 4TY
United Kingdom

Telephone: +44 (0) 2890 844 012

Telefax: +44 (0) 870 706 1614

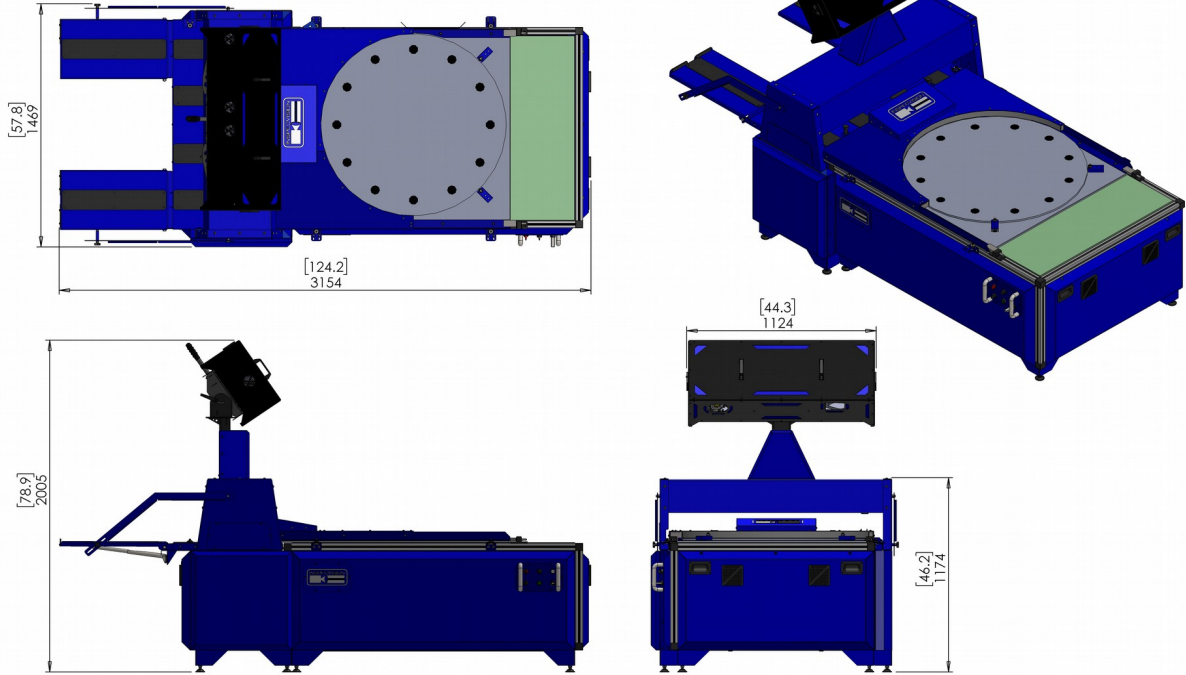
Email: Info@InspecVision.com

Web Address: www.InspecVision.com

Distributor Details:

Opti-Scan 1000.35 LA Schematic

Dimensions in brackets are in inches
 OS.1000.35
 Available models:
 - OS.1000_LM_Manual Operation
 - OS.1000_LA_Automatic Operation



Standalone Opti-Scan 1000.35 Schematic

OS.1000.35

