## Specification and scope of supply of Opti-Scan 800.35

Description	Specification/scope of supply			
Max Single scan area 18.2	800mm (X) x 500mm (Y)			
Max Single scan depth* 1.2 & 3	500mm (Z)			
Volumetric accuracy** Repeatability**	70 microns 35 microns			
Point Spacing	Better than 170 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 11 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 construction	Heavy duty aluminium tripod, dolly base. Camera and projector assemblies mounted on floating carbon fibre chassis			
OptiScan enclosure	ABS Carbon fibre effect			
Repositioning markers	Set of 24 loose magnetic photogrammetric markers to allow repositioning			
Optional light table	Optional light table for improved edge measuring accuracy. Manual or automatic component repositioning disc options			
Automated turn-table maximum load (UDL) Camera	50kg			
Projection source	>20 megapixels LED/laser projector.			
Data cables	HDMI and USB3			
	The air supply for the air bearing can come from a small compressor if no factory air supply is available. The compressor			
Air Supply	should have a minimum receiver capacity of 24 litres.			
Air supply hose	The air supply hose should be 3/8 inch bore to be a push fit onto a brass tail pipe connection.			
Air flow Air pressure	Air flow – 4.5 to 5.0 CFM @ 100psi FAD (Free Air Delivery) Air pressure input range – 110psi to 140psi (approx 7.5 to 8 bar).			
Air quality	Air quality – clean, dry, oil-free air.			
Power supply	110-240V 50/60Hz			
Power consumption	1.5 Amp maximum at 230 Volt, 3 Amp max at 110 Volt.			
EC directives	Compliant with Machinery, Low voltage and EMC Directives.			
Paint colour (powder paint)	Tripod and Dolly RAL 9005: Black			
Ambient operating conditions	5-35 degree C			
Available configurations	LA = Light Table Automatic Repositioning disc LM = Light Table Manual Repositioning disc or tripod			
Approx Footprint width/ depth/ height/ weight	1264mm (W) x 1231mm (D) x 1581mm (H) <45kgs (Tripod)			
Approx Footprint width/ depth/ height/ weight	2910mm (W) x 1359mm (D) x 1869mm (H) <960 kgs (LA)			
Standard packing	Export crates suitable for sea shipping			
Warranty	One year limited warranty on hardware and software			
Optional extended warranty	Two or three year extended warranty (requires software upgrade option)			
Software support 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

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"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

Non-standard hardware, achiever or acceptance tests must be defined ring to purchase.

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Manufacturer: InspecVision Ltd

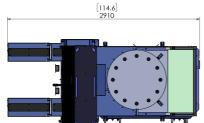
10 Trench Road Mallusk Co Antrim BT36 4TY

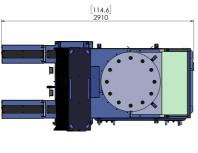
United Kingdom Telephone: +44 (0) 2890 844 012 Telefax: +44 (0) 870 706 1614 Email: sales@InspecVision.com Web Address: www.InspecVision.com

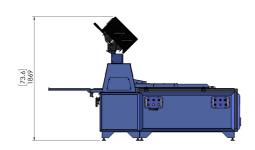
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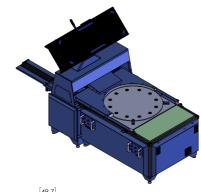
## Opti-Scan 800.35 LA Schematic

DIMENSIONS IN BRACKETS ARE IN INCHES OS800.35 AVAILABLE MODELS: -OS800 LM- MANUAL OPERATION -OS800 LA - AUTOMATIC OPERATION SCALE: 1:30











## Standalone Opti-Scan 800.35 Schematic

OS.800.35 DIMENSIONS IN BRACKETS ARE IN INCHES







