

Measurement for the 21st Century Intelligent Vision Systems iV-3D-Pro

IV-3D-Pro is a complete 3 Dimensional data display and acquisition solution for creating and measuring 3 Dimensional components. The system is delivered fully commissioned, in a compact housing containing all the necessary equipment and controls to provide you with complete QA or measurement solution. IV3D –Pro also provides the facility to compare all or parts of an existing model or drawing to a component under inspection, providing a QA report or the deviations Identified.

The system combines ease-of-use with high performance. To obtain the data you require simply follow the 3 simple steps.

- Place the components you wish to analysis in to the controlled environment.
- Select the measurement resolution you require.
- Select the items of the component you wish to measure or Compare

Features include

- Surface mapping
- Automatic reporting facilities
- Configurable reporting facilities.
- Model comparison
- Cad comparison
- Extensive Measurement tools (Section, Distance, Radius, Arc, angles)
- Drawing Export facilities
- Point Cloud
- Surface
- DXF
- AutoCAD 9 To 2005

Applications

- **Drawing reproduction** – The production of AutoCAD drawings for remanufacturing, rapid prototyping
- **Modelling** –Creation of a 3 Dimensional model of component
- **QA Inspection** – Verification of dimensions

Industrial areas

- Automotive
- Aerospace
- Engineering
- Architecture
- Design

Benefits:

- Simple to use -
- Fast;- even the most complex information is captured and presented in minutes reducing the time needed over traditional methods by 90%

- High precision measurement
- Repeatability of results
- Full statistical reporting
- Improves product quality,
- Lower start-up costs
- Reduce time-to-market.
- Monitors quality before value is added to a product.

Equipment Performance

Number of measurement points	Configurable
Point measurement	0.1mm optional 0.05 point measurement
Angular Measurement	0.1 degrees
Repeatability	Better then 0.01 %

Specification:

Size-Delivery size

Height	1000mm
Width	500mm
Length	500mm
Part size	
Height	210mm
Width	400mm Optional 600, 800,1000,1200 mm
Length	400mm Optional 600, 800,1000,1200 mm
Environment	General office / laboratory conditions
Transfer method	Optional “component s dependent” Rotational or Directional

PC

CPU	Pentium 4 2.80 MHZ ~
Windows Operating System	Window XP service pack 2
RAM	1 GB (actual Memory)
Local Data storage	160 GB Optional disk space
Data Storage	CD Read Write optional DVD Read writer
Screen Size	17” TFT flat screen, Optional touch screen.
Communication Interface	4 x USB2.2

Camera

Resolution	1/2inch progressive scan CCD 1,2,3,5 Or million points of measurement Colour temperature and grey scale Real time shade correction
Frame per second	1 to 50 frame / sec
Communications	High speed FireWire IEEE 1394

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