



G-Scan RX2

3D Scanning Probe – Reverse engineering and inspection of Complex forms

G-Scan RX 2 gives you minimum engineering downtime compared to all other traditional contact measuring tools.



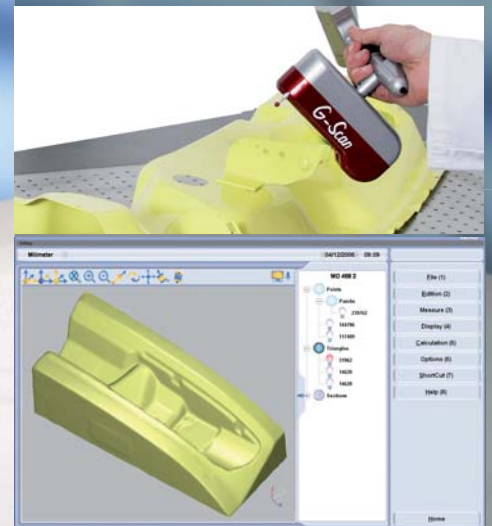
The 3D scanning non-contact solution for reverse engineering and inspection

Characteristics

- Integrated Rotating adaptor
- Guided Measurement with a laser point
- Frequency filter to reduce the measurement noise
- Available on a laptop
- Compatible with all ROMER SIGMA arms
- Scans a large variety of materials:
 - Plastics
 - Sheet metal
 - Fabrics
 - Clay

Functionalities

- Complex form digitising
- Triangulation of a big cloud of points
- Constraints meshing
- Colour mapping for surface inspection



Applications

- Competitor analysis
- Prototyping
- Design
- Quality

Advantages

- Mobile scanning technology
- Compact and accurate
- User-friendly menus
- Fast and efficient meshing software
- 2 measurement modes:
 - Large ray for large part
 - Thin ray especially for the more detailed measurement
- Measurement with the part reference
- Infinite rotation axis

G-Scan RX2

Probe specifications

Weight	500g
Sizes	156x72x50mm
Scanning probe accuracy (2 sigma)	0.044mm
Distance Scanner/Measured surface 124 < d < 222mm	
Laser line max length	110mm
Minimum distance between 2 points without interpolation	0.10mm
Max speed measurement 30 laser lines/second	
Max number of points per measured line	640 points
Laser plane maximum power	5mW
Laser point maximum power	1mW
Laser point lifetime	30 000h
Laser plane lifetime	15 000h
Number of camera parameters	6
Security (laser plane/laser point) IEC norms	Class 3a / class 2

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- Repeatable quick fixation
- 3 available acquisition buttons for a handy and ultra comfortable digitizing
- Integrated rotating axis
- High-resolution camera with frequency filter
- Laserpoint
- Laserplane



3D scanning non-contact probe

G-Scan software specifications

Output

- Points: ASCII
- Triangles: STL, DXF, UNV, OBJ, Vertices ASCII
- Sections: DXF, IGES, ASCII

Reference selection - Main measured point functions:

- All points measurement or automatic filtered cloud of points (depends of the cordal error)
- Points measurement with density control

Main meshing functions:

- Smoothing with additional vertices or with deviation control
- Regular meshing with average triangles sizes
- Offset calculation
- Mesh reorganisation (follows the shape)

Main Sections functions:

- X, Y and Z automatic creation according to pitch
- Section calculation according to a measured plane

Main display functions:

- Points view, smooth shading mesh view, flat shading mesh view, wireframe mesh view, wireframe and shading view, smooth shading mesh view and turn as wireframe view...
- Colour management (background, points, sections and mesh)
- Real-time points view during measurement



ROMER products are available at the following Hexagon Metrology precision centers:

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ISO 9001 Certified

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