

ROMER



- **Technology and Warranty from ROMER:** the first manufacturer able to ensure a complete maintenance of your digitizing equipment (arm + probe + software).
- **Reverse Engineering:** contactless scanning with laser light to meet reverse engineering needs at a very attractive price.
- **Infinite Rotation:** R-Scan patented infinite rotation allows for easy scanning of difficult- to-reach areas.
- **Easy measurement:** a laser point ensures a guided measurement.
- **Large capability, speed, repeatability, real-time display & automatic color recognition**

Omega R-Scan & 3DReshaper

Affordable 7-axis reverse engineering solution

The affordable reverse engineering solution in 7 axes at a very attractive price, combining ROMER arm flexibility, ROMER laser probe technology and powerful 3DReshaper software.

New attractive solution for reverse engineering

- OMEGA, the more economical tool for multi-purpose measurement
- R-Scan, the fast, easy-to-use and affordable laser scanner probe dedicated to reverse engineering
- 3DReshaper Application : a complete 3D point-cloud processing software for users who need to handle rapidly generated point clouds files and obtain high-quality 3D meshes at an affordable price.

Choose ROMER, the creator of the 3D portable measuring arms, and benefit from a fast, intuitive measurement without constraints.



Omega R-Scan & 3D Reshaper



**Hexagon Metrology
ROMER Division**
2 rue François Arago
F-41800 Montoire
France

Tel +33 (0)2 54 86 40 45
Fax +33 (0)2 54 86 40 59
E-mail: info@romer.fr
www.romer.com

Omega			
Models	Measuring Range (Spherical diameter) mm	Length Accuracy test c) mm	Weight kg
2018	1800	± 0.050	5.2
2025	2500	± 0.068	5.3
2030	3000	± 0.108	5.4
2036	3600	± 0.148	5.5
2046	4600	± 0.180	5.7
2052	5200	± 0.200	6.2

Technical specifications R-Scan

Weight	600 g
Overall dimensions without fixing system	156x72x50 mm
Overall dimensions with fixing system	156x130x50 mm
Accuracy camera only (2 Sigma)	0.07 mm
Measured materials	Metals, plastics, foam, wood,...
Distance camera/measured surface	124 < d < 222 mm
Laser line maximum length	110 mm
Minimum distance between 2 points without interpolation	0.10 mm
Interpolation minimum	2
Maximum acquisition speed (Number of laser lines per second)	20
Maximum measured points per line	640
Laser color	Red
Maximum plane laser emission power	5 mW
Maximum point laser emission power	1 mW
Plane laser wavelength	635 nm
Point laser wavelength	650 nm
Point laser lifetime (average)	20 000 h
Plane laser lifetime (average)	10 000 h
Laser type	Diode
Security (plan laser/point laser) IEC	Class 3a/class 2
Compatible arms	SIGMA, FLEX, OMEGA

Omega 3D RES package:

OMEGA 2025 Arm

R-Scan laser probe

3DReshaper
(3D point cloud processing software)

Optional: WBP (Wireless battery Pack) with battery
and power supply cable

Omega 2025 + R-Scan + 3DReshaper

€ 39'900.-

VAT excluded. Limited offer until 30.12.2007



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

France: Bron (Lyon): Tel. 04 72 37 90 60, Fax 04 72 37 90 61 – Courtaboeuf: Tel. 01 69 29 12 00, Fax 01 69 29 00 32
Colomiers (Toulouse): Tel. 05 34 51 70 95, Fax 05 34 51 79 44. **Germany:** Munich: Tel. 089 149810-0, Fax 089 149810-59
Wetzlar: Tel. 064 412 07 0, Fax 06441 207 122. **Italy:** Calderara di Reno (BO): Tel. 051 725254, Fax 051 725288
Cormano (MI): Tel. 02 615411 1, Fax 02 6150473 – Grugliasco (TO): Tel. 011 4025111, Fax 011 7803254
Verona: Tel. 045 80 70 174, Fax 045 80 70 295. **Poland:** Warsaw: Tel. 022 338 15 00, Fax 022 338 15 22
Crakow: Tel./Fax 012 647 08 27. **Spain:** Cerdanyola del Vallès (Barcelona): Tel. 93 594 69 20, Fax 93 594 69 21.
Sweden: Eskilstuna: Tel. 016 16 08 00, Fax 016 16 08 90 – Göteborg: Tel. 031 51 40 10, Fax. 016 16 08 90
Spånga: Tel. 016 16 08 80, Fax 016 16 08 90 – Trollhättan: Tel. 052 01 51 61, Fax 016 17 06 39.
Switzerland: Crissier: Tel. 021 633 50 33, Fax 021 633 50 34 – Aarau-West: Tel. 062 737 67 37, Fax 062 737 67 38.
United Kingdom: Telford: Tel. 0870 446 2667, Fax 0870 446 2668. **Turkey:** Ankara: Tel 0312 417 14 14, Fax 0312 425 58 38.
www.hexagonmetrology.com

ISO 9001 Certified

ROMER - All rights reserved. Non contractual pictures.
Specifications are given as information and can change
without notice. September 2007. Printed in Switzerland.