Product datasheet

OptiNum scanner

OptiNum™

Vision based self-positioning
Video streaming acquisition
High quality CCD sensor 1024 x 768 px
Accuracy: up to ±50µm (±0,002in)
Spatial resolution: ±300µm (±0,012in)
Unlimited number of points
Recommended object volume: from 10cm³ (0,6in³) to 1m³ (35,3ft³)
Working distance: 400mm (16in)
Field of view: A5
Depth of field: 150mm (6in)
Weight: less than 2kg (4,41lb)
Dimensions: 230mm x 230mm x 80mm (9,05in x 9,05in x 3,15in)

Each OptiNum package contains:

– One OptiNum scanner
– One battery with associated power charger
– A shockproof and waterproof carrying case
– A USB cable for laptop connection
– A standalone license of NumiSoft with installation CD
– A documentation and a user guide
– One year of warranty
– Geomatic WRAP module licence liscence

geomagic®

NumiSoft software

NumiSoft™

– OptiNum management
– Automatic 3D point clouds creation
– Automatic 3D model reconstruction
– Point clouds clean-up capabilities
– Point clouds refinement functions
– Automatic mesh from point clouds
– ASCII and XYZ files for point clouds export
– STL files for mesh export

geomagic®   Included

NumiSoft™ VIEWER

Freeware

Recommended configuration

Operating system:	Windows Seven 64bits
CPU:	Intel i7
RAM:	8 GB
Graphics:	GPU with dedicated 1GB
Connectors:	2 x USB ports included 1 x USB 2.0 High Speed

Maintenance

Noomeo can provide its customers with an additional maintenance contract including:

– Hardware maintenance and repair within a D+5 timeframe from reception in Noomeo office, subject to Noomeo approval
– Software maintenance for corrections and evolutions
– Annual maintenance rate: 20% of product list price
– Hotline and customer assistance through phone and email

NTS inc. 2583 boul. Chomedey, Laval (Québec) H7T 2R2 Canada
Tél.: 450-238-1448 Fax: 450-689-4581
E-mail: info@ntsconsulting.ca

OptiNum
The new generation of ultraportable 3D scanner

Founded in 2007 and headquartered in Toulouse (France), Noomeo is an innovative company which developps and industrializes ultraportable 3D scanning products. OptiNum scanner is based on an innovative video streaming technology. This opens for the customers new fields of application while maintaining a high quality of digitization.

Applications

Manufacturing
– Tooling production
– Nondestructive control
– Mechanical design
– Maintenance and repair
– Rapid prototyping

Paramedical
– Body parts scanning
– Orthotics and prosthesis
– Chiropody
– Face scanning
– Diagnostic and follow–up

Heritage conservation
– Archeology
– 3D virtual museum
– 3D archiving
– Research and studies
– Copy of any fragile

Automotive
– Reverse engineering
– Design intent capture
– 3D digital mock–up
– Prototyping
– Nondestructive control

Aeronautics
– Reverse engineering
– Maintenance and repair
– 3D digital mock–up
– Prototyping
– OEM integration

Why using OptiNum ?

Video streaming acquisition
OptiNum is based on an innovative technology that uses video streaming instead of laser. This allows OptiNum to operate in any environment and to be able to capture any geometry while guaranteeing a high level of accuracy of the 3D model.

Ultraportable and autonomous
OptiNum weights less than 2kg (4,41lb) and is very compact. Working on battery it does not require any power cable, and must simply be connected to a laptop to be operational in any kind of environment.

No part preparation and vision based self–positioning
Our vision based self–positioning scanner avoids to prepare the object or install any reference system. Thus, no targets, no grids or trackers are required to capture the model.

Accuracy
OptiNum can generate 3D point clouds with an accuracy up to ±50µm (±0,002in) for objects with a recommended volume from 10cm^3 to 1m^3 (0,6in^3 to 35,3ft^3) . So that it can be used for industrial applications, such as manufacturing, automotive or aeronautics.

Fast return on investment
The combination of the ease of use and the competitive pricing of OptiNum represents the best way for customers to generate a high level of return on investment. OptiNum frees the user of most known constraints, and does not require a high level of expertise from the user.

noomeo
3D made easy