

OptiNum

The new generation of ultraportable
3D scanner

Founded in 2007 and headquartered in Toulouse (France), Noomeo is an innovative company which develops 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



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 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 +/- 100µm for objects with a recommended volume from 10cm³ to 1m³. 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.



Product datasheet

OptiNum scanner



Vision based self-positioning
Video streaming acquisition
High quality CCD sensor 1024 x 768 px
Accuracy: up to +/- 100µm
Spatial resolution: 300µm
Unlimited number of points
Recommended object volume: from 10cm³ to 1m³
Working distance: 400mm
Field of view: A5
Depth of field: 150mm
Weight: less than 2kg
Dimensions: 230mm x 230mm x 80mm

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

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

Included



NumiSoft+™

- ASCII and XYZ files for point clouds import/export
- STL and OBJ files for mesh import/export
- Advanced automatic mesh from point clouds
- Curvature meshing for edge preservation
- Mesh and point clouds edition and clean-up
- Holes filling with curvature preservation
- Non-manifold topology

Inspect: relative distances measurement
Compare: point clouds to mesh distance color map



**NumiSoft™
VIEWER**

Freeware

Recommended configuration

| | |
|--------------------------|--|
| <u>Operating system:</u> | Windows Seven 32bits |
| <u>CPU:</u> | Quad Core 2Ghz |
| <u>RAM:</u> | 4Go |
| <u>Graphics:</u> | GPU with dedicated 256Mo |
| <u>Connectors:</u> | 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

noomeo

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