

# eviXscan 3D FinePrecision



## Precision 3D scanning of the smallest objects

### Quality control at the highest level

The **FinePrecision 3D** scanner is designed as a measuring device for precision mechanics, especially in areas such as production of micro rotors, small injection elements, precise numerically machined components or used in small-feature 3D printing.

**FinePrecision** is also ideal for scanning small implants, in prosthetics, in watchmaking and in jewellery. The precision of the scanner also allows to use it to optimize the 3D printing process.

The combination of high-speed cameras and the next generation of DLP light projection system, whose signal triggers the cameras every time a new pattern is displayed, allows to limit the scan acquisition time to several hundred milliseconds.

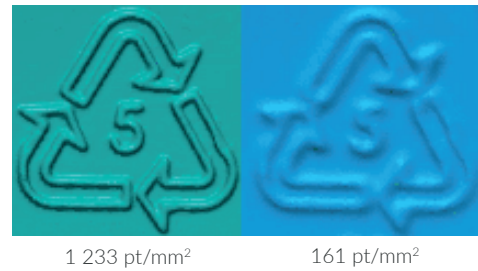
# eviXscan 3D FinePrecision scanner

## Key features

- high accuracy of scans (up to  $6\ \mu\text{m}^*$ )
- above-average object of the scans acquired, thanks to the high density of collected points
- short data acquisition time ( $<1\ \text{s}$ )

The small scanning area in combination with the high-resolution cameras allows for an unsurpassed point-to-point resolution of  $28\ \mu\text{m}$  (point density higher than  $1200\ \text{points}/\text{mm}^2$ ).

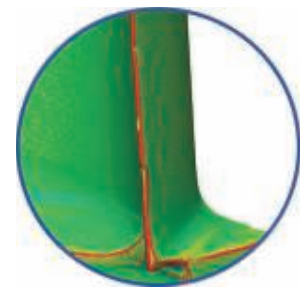
Comparison of scans  
with different mesh densities



## Technical specifications

|                               |                            |                       |   |
|-------------------------------|----------------------------|-----------------------|---|
| Measuring range               | 120 x 60 x 32 mm           | Software              | eviXscan 3D Suite   |
| Point density                 | 1 233 pt/mm <sup>2</sup>   | Export formats        | stl, ply, obj, asc, bin   |
| Scanning accuracy             | up to $0.006\ \text{mm}^*$ | Operating system      | Windows 10 (64-bit)   |
| Scanning time                 | 1 second                   | Computer connection   | USB 3.0   |
| Light source                  | Blue LED                   | Hardware requirements | CPU i7, 32 GB RAM, SSD NVMe 480 GB disk, nVidia GTX 970 graphics card or higher |
| Cameras number and resolution | 2 x 8.9 Mpix               |                       |   |

\* Accuracy determined with the use of the standard DE VDI/VDE 2634, Part 2, 4.1 P<sub>S</sub>



These parameters allow the analysis of surface microdamages, existence of dents occurring during the fabrication or use of machines and devices, as well as errors in the production process.

## A rich set of accessories



The standard set includes the eviXscan 3D Suite software, the 20 kg rotary table, frames with markers to assist in folding scans, the tripod, the A5 calibration table, the transportation box.