



EVIXSCAN 3D

See it. Scan it.



 EVIXSCAN 3D

Heavy Duty Quadro

Cameras: **4 x 5 Mpix**

Accuracy: **0.013 mm**

Light-source: R/G/B LED

2 measuring ranges

ToolKit Box support

Set includes:

eviXscan 3D Suite, tripod, calibration plate, transport hardcase

Internal construction made of carbon fiber

Laser trackers

IP 62



Versatile 3D scanning in harsh environment

Aluminium body and carbon fiber beam on **Heavy Duty Quadro** guarantees precise measurements in harsh environment. Two ranges enable to scan objects of different dimensions: from a few centimeters to several meters.

Useful for: contactless quality inspection, reverse engineering and rapid prototyping.

 EVIXSCAN 3D

Heavy Duty Optima

Cameras: **2 x 5 Mpix**

Accuracy: **0.0183 mm**

Light-source: Blue LED

Set includes:

eviXscan 3D Suite, tripod, calibration plate, transport hardcase

ToolKit Box support

IP 31



High-precision 3D scanning of small and medium size objects

Heavy body construction enables scanning in variable environment. High point density is helpful for scanning of small, medium and detailed objects.

Useful for: contactless quality inspection, reverse engineering and rapid prototyping.

Technical specification

| | Heavy Duty Quadro | Heavy Duty Optima |
|-----------------------|--|--------------------------------------|
| Light-source | R/G/B LED | Blue LED |
| Cameras | 4 x 5 Mpix | 2 x 5 Mpix |
| Accuracy | *up to 0.013 mm | *up to 0.0183 mm |
| Scanning time | 5 seconds | 5 seconds |
| Measuring ranges | 370 x 265 x 150 mm / 210 x 145 x 90 mm | 250 x 170 x 120 mm |
| Points density | 50 pt/mm ² / 161 pt/mm ² | 116 pt/mm ² |
| Software | eviXscan 3D Suite | eviXscan 3D Suite |
| Export formats | stl, ply, obj, asc, bin | stl, ply, obj, asc, bin |
| Computer requirements | Windows 7 (64-bit) 16 GB RAM, CPU i5 | Windows 7 (64-bit) 16 GB RAM, CPU i5 |
| Computer connection | USB 3.0 and HDMI | USB 3.0 and HDMI |

* Accuracy determined with the use of the standard DE VDI / VDE 2634, Part 2, 4.1 Ps



ToolKit Box



ToolKit Box MAX

ToolKit Box

Speed: scan large objects 3x faster than in a traditional way, i.e. using non-coded markers.

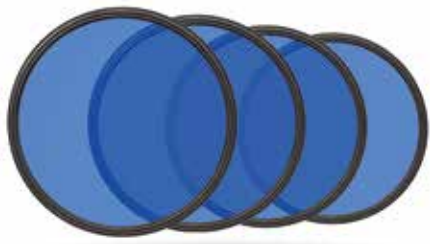
User comfort: save time in preparing the scanning object for scan; reduce by 60% the number of targets (artifacts & markers) to be attached to the object.

Money saving: use repeatedly artifacts and coded markers with magnetic layers.

Automatic alignment: (automatically) align group of scans with complicated shapes to one coordinate system; just put one coded marker or artifact on object – and save your time.

Comfortable transport: coded artifacts and coded markers on magnetic support or on stickers fit into one portable and robust case.

Intuitive controls and operations: experience ultra-short training and be ready to start scanning!



Blue light filters

The light projection technology used in **Heavy Duty** scanner's line operates with narrowband blue LED light.

With blue light filters, precise measurements can be taken independently of ambient light conditions (filtering ratio over 95%).

High intensity of blue light and higher exposure on cameras causes great results of scanning process even dark and shiny surfaces.



3D scan made without a filter



3D scan made with a filter

Rotary table

Type 20 ø 20 cm

bearing capacity up to 20 kg

Type 60 ø 60 cm

bearing capacity up to 200 kg

Type 100 ø 100 cm

bearing capacity up to 1000 kg



Rotary tables ensure the integration with **eviXscan 3D** scanning systems and allows to capture the data from many perspectives.

The data captured from scanning process with usage of rotary table are automatically align to one coordinate system, which significantly reduces the processing time.



Tripods and column stands

For a stable and accurate acquisition, **eviXscan 3D** solutions are equipped with Tripods or Stative Stands by *Manfrotto*.

The base of column stand is equipped with wheels which provide higher mobility.

In addition, three axes allow to set the perfect working position.

The counterweight also protects the scanner from accidental falling.

Powerful simplicity

eviXscan 3D Suite 2.0 is a comprehensive software platform that delivers the most powerful and user-friendly tools for scanning and mesh processing within straightforward workflow.

The clear process will guide the user in all scanning steps from basic configuration to the final mesh processing and will enable to achieve significant productivity gain with following functionalities:

- configuration
- calibration
- acquisition of the scans
- transformation of the scans into the one coordinate system
- support of the scanning process with the rotate table or with the markers
- cooperation with the positioning system (**ToolKit Box**)
- export of the scans into the most popular file extension: STL, PLY, OBJ, ASCII
- direct export of the scans into Geomagic® Design XTM and Geomagic® Control XTM software



Chosse chart



Check calibration



Calibration wizard



Single scan wizard



Rotary table wizard



Markers wizard



Single scan



Scan with rotary table



Scan with markers



Remove markers



Decimate



Markers alignment



Manual alignment



Global alignment



Merging



Mesh doctor



Subdivide



Hole filling

Get **eviXscan 3D Suite 2.0** with annual subscription to benefit from new advanced functions to come.

eviXscan 3D Suite product subscription open access to new updates, extended support, webinars and more!

To ensure comfort and continuous development, the subscription provides many additional benefits and guarantees access to the latest innovations the moment they are available.



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