

EVIXSCAN 3D technical specification

	Heavy Duty Quadro	Heavy Duty Optima	Heavy Duty Basic	Dentica	Zoom
Light-source	R/G/B LED	Blue LED	Blue LED	R/G/B LED	R/G/B LED
Cameras	4 x 5 Mpix	2 x 5 Mpix	2 x 1.3 Mpix	1.3 Mpix	1.3 Mpix
Accuracy	*up to 0.013 mm	*up to 0.0183 mm	*up to 0.02 mm	0.01 mm	0.01 mm
Scanning time	5 seconds	5 seconds	5 seconds	3 seconds	3 seconds
Measuring ranges	370 x 265 x 150 mm 150 x 115 x 90 mm	250 x 170 x 120 mm	260 x 210 x 150 mm	100x80x80 mm	100x80x80 mm
Points density	41 pt/mm² 232 pt/mm²	95 pt/mm²	24 pt/mm²	156 pt/mm²	156 pt/mm²
Software	eviXscan Suite	eviXscan Suite	eviXscan Suite	Dentica Suite + DentalCAD	Zoom Suite + Leios for Makers
Export formats	stl, ply, obj, asc, bin	stl, ply, obj, asc, bin	stl, ply, obj, asc, bin	stl, ply, obj, asc	stl, ply, obj, asc
Computer requirements	Windows 7 (64-bit) 16 GB RAM, CPU i5	Windows 7 (64-bit) 16 GB RAM, CPU i5	Windows 7 (64-bit) 4 GB RAM, CPU i5	Computer included	Computer included
Computer connection	1 x USB 3.0 and HDMI	1 x USB 3.0 and HDMI	2 x USB 2.0 and HDMI		

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

EVIXSCAN 3D software

eviXscan Suite

eviXscan software is our proprietary software that allows you to control the scanner:

- 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 photogrammetric 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 X™ and Geomagic® Control X™ software

DentalCAD

Software for dental laboratory dedicated the design and modeling. Based on a proprietary technology customizable and easy to use.

Leios for Makers

Simple and reliable software for processing 3D scans, mesh editing and reverse engineering. Leios provides an easy, fast, powerful and convenient way to go from 3D scanner to CAD, facilitating the development of 3D scans and editing of triangular meshes.

designed by



evatronix

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European Union
European Regional
Development Fund



3D scanners





Heavy Duty Quadro

Cameras: **4 x 5 megapixel**
Accuracy: **0.013 mm**
Light-source: R/G/B LED
2 measuring ranges
ToolKit Box support
Set includes:
eviXscan 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.



Heavy Duty Basic

Cameras: **2 x 1.3 megapixel**
Accuracy: **0.02 mm**
Light-source: Blue LED
Set includes:
eviXscan Suite, tripod, calibration plate, transport hardcase
Lightweight construction
IP 31

Affordable entry into accurate 3D scanning

Heavy Duty Basic designed for rapid prototyping of simple mechanical parts and handcrafted digitalization. Most commonly works 3D printing companies, design offices and CNC workshops.

Useful for: scan-to-print, rapid prototyping, art & design.



Dentica

Cameras: 2 x 1.3 megapixel
Accuracy: **0.01 mm**
Light-source: R/G/B LED
Optics: auto-calibration
Plug&Play: PC integrated

Perfect solution for dental labs and technicians

eviXscan Dentica is a dedicated solution for dental prosthetist.

The scanner is equipped with software for design of all kinds of dental models, see dies, find impressions and verticulator, ensuring accuracy and reliability.

Heavy Duty Optima

Cameras: **2 x 5 megapixel**
Accuracy: **0.0183 mm**
Light-source: Blue LED
Set includes:
eviXscan 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.

EVIXSCAN 3D accessories

Rotary table



Typ 20
ø 20 cm
bearing capacity up to 20 kg
Typ 60
ø 60 cm
bearing capacity up to 200 kg
Typ 60
ø 100 cm
bearing capacity up to 1000 kg

Column stand



The base of the tripod 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.

Toolkit Box



- standard markers & unique (coded) markers
- unique artifacts
- remote controller
 - gloves

Toolkit Box enables:

- faster scanning of complicated, large size objects thanks to application of different size markers & artifacts
- fast data processing thanks to automatic adjustment of all scans in one coordinate system
- remote calibration and operation of the measuring system with the use of the pilot
- saving thanks to repeated use of artefacts

Zoom

Cameras: 2 x 1.3 megapixel
Accuracy: **0.01 mm**
Light-source: R/G/B LED
Optics: auto-calibration
Plug&Play: PC integrated



3D solution for precise scanning of jewellery and small objects

eviXscan Zoom is an extremely precise, simple, intuitive and high-performance 3D scanner. The high accuracy of Zoom and its technical features allow the perfect acquisition of objects such as buckles, heels, precious stones and small objects with reflective and complex surfaces, thanks to the particular geometrical arrangement of the optics.