



EOTECH
more for science



In-vivo
Ex-vivo
Bio-engineering

EvaSURF^{3D}

The most resolving
3D Scanner
for **Surface measurement**

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Ultra high resolution 3D measurement
system for topography



Method

Technology: The state of the art combining fringes projection and stereovision, also called active stereometry, provides the largest field of view with the highest resolution. It offers pixel resolution in X, Y, high accuracy in Z, less sensitive to movement. Based on high quality and stability components, fix field of view.

Positioning: The scanner is mounted on a table tripod, looking down on the sample or forearm. It can also be mounted on large tripod to access to body areas

Software: The Aeva software guides the user through acquisition routine, runs automatic batch processing and evaluation of the 3D data providing results as CSV files, figures and pictures. It offers unique multi-zones, multi-scaling analysis functionalities

Applications



In Vivo: It can measure micro structure changes of the skin microrelief network on forearm, stretchmarks or even nails surface for repair or protection care.



Bio-Engineering: Reconstructed or bio skin can be evaluated for their structure and their modification through products effect or treatment. Specific support can be used for quality control of product deposition like sun cream or foundation.

Fields of use:

Bio-engineered skin
Ex-plants,
Nail & warnish
Plastics
Product structure
Coatings

Advantages/benefits:

- High resolution system
- Fast measurement and high reproducibility
- Flexible system, offers surface and small part analysis
- Simple to use, minimum setting and skill required

Technical Data

Configuration:

Triangulation angle: 27 degrees
Operating distance: 370 mm

Field Of View	30
Field Of View depth (mm)	25 x 20
Measuring depth (mm)	15
X, Y resolution (µm)	10
Resolution limit (z) (µm)	0.5
Feature accuracy (µm)	±5

Linked Products:

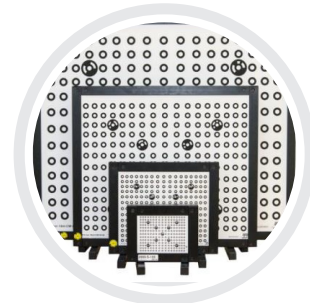
Positioning devices



Step gauge



Calibration plate



Color camera:

not available

Texture mapping:

map black & white texture onto the 3D models

Technical specifications:

Camera resolution	2 x 5Mpx	
Projection unit	Miniaturized projection technique	
Light source	50 W high-power Blue LED	
Acquisition time	1 second	
Sensor weight	4 kg	
Dimensions	W 300 x D 210 x H 175 mm	
Power supply	AC 110/230 Volt, 50-60 Hz	
Control unit	150 W, USB 2.0	
Computer configuration	Hard Drive	1 To
	Processor	i9 3.5 GHz
	Graphic card	Nvidia Quadro >2Go
	RAM	32 Go
	Operating system	Microsoft Windows 10 x64 or Windows 11

Contact

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