EOTECH
more for science

Skin

DermaTOP^{3D}-HE

The Most Resolving
Skin Scanner
for **in vivo testing**

Ultra high resolution measurement system for skin topography and face topology changes

Method

Technology: The state of the art combining fringes projection and stereovision, also called active stereometry, provides largest fields 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, different fields of view are available by simply changing objectives sets to switch from small to large measurement areas (from skin structure to face part).

Positioning: The panelists are installed on the visioTOP 300 positioning bench for stable and repeatable positioning and re-positioning between the different measuring time points. Managing the volunteers and getting reliable and repeatable results becomes much easier.

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

Local zone: Skin micro structure, pores, fine lines & wrinkles evaluation, skin replica, eye bags, lips

Face part: Topology changes: re-pulping, firming, fine lines & wrinkles visibility*, sagging

* Only if spatial resolution of used the FOV is good enough

Advantages/benefits:

- All in one system with multiple fields of view capability
- High performance system, robust and reproducible
- Flexible system offers local to Face part analysis
- Simple to use, minimum setting and skill required

Claims support:

Local zone:

Anti-ageing, anti-Wrinkles, pores reduction, smoothing, hydration, repulping

Face part:

rejuvenation, fillers, mesotherapy, firming, reshaping, restructuring, anti-ageing

Technical Data

Configurations:

Field Of View	60	125
Local	✓	✓
Face part		✓

Local zone: 2D or 3D roughness statistics, height distribution on topographies
Statistics (number, volume, area, depth, circumference) on pores, fine lines, wrinkles and folds
Skin features density of pores, fine lines and wrinkles
Deviation (pseudo color display) and volume of the topographies (eye bags, lips, sagging and oval)

Face part: Multi zone extraction and analysis
Comparison on the shape changes with statistical deviation and pseudo color display
Volume of the difference, section length, distance between points and angle calculations
Skin features density (pores, fine lines wrinkles and folds) *
Section length, distance and angle measurements

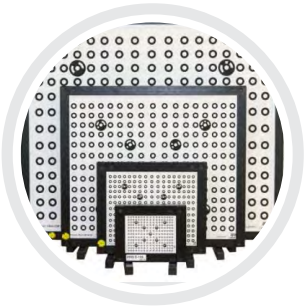
* Only if spatial resolution of the used FOV is good enough

Linked Products:

Positioning benches

Step gauge

Calibration plate



\+ **Color camera:** add-on for high resolution color texture on the 3D models
Option photo: including lighting, color camera and 2D image analysis software

Measurement Specifications:

Triangulation angle: 32 degrees Base length: 240mm Operating distance: 370 mm		
Field Of View	60	125
Field Of View depth (mm)	50 x 40	100 X 80
Measuring depth (mm)	30	60
X, Y resolution (µm)	20	40
Feature accuracy (µm)	+/-4	+/-7

Technical Specifications:

Camera resolution	2 x 5Mpx	
Projection unit	Miniaturized projection technique	
Light source	50 W high-power LED white	
Acquisition time	1 second	
Sensor weight	4 kg	
Dimensions	W 321 x D 235 x H 226 mm	
Power supply	AC 110/230 Volt, 50-60 Hz	
Control unit	150 W, USB 2.0	
Computer configuration	Hard Drive	≥ 1 To
	Processor	Xeon or i7 ≥ 3.5 GHz
	Graphic card	Nvidia Quadro ≥2Go
	RAM	≥ 24 Go
	Operating system	Microsoft Windows 7 x64 or Windows 10

Contact

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