



EOTECH
more for science

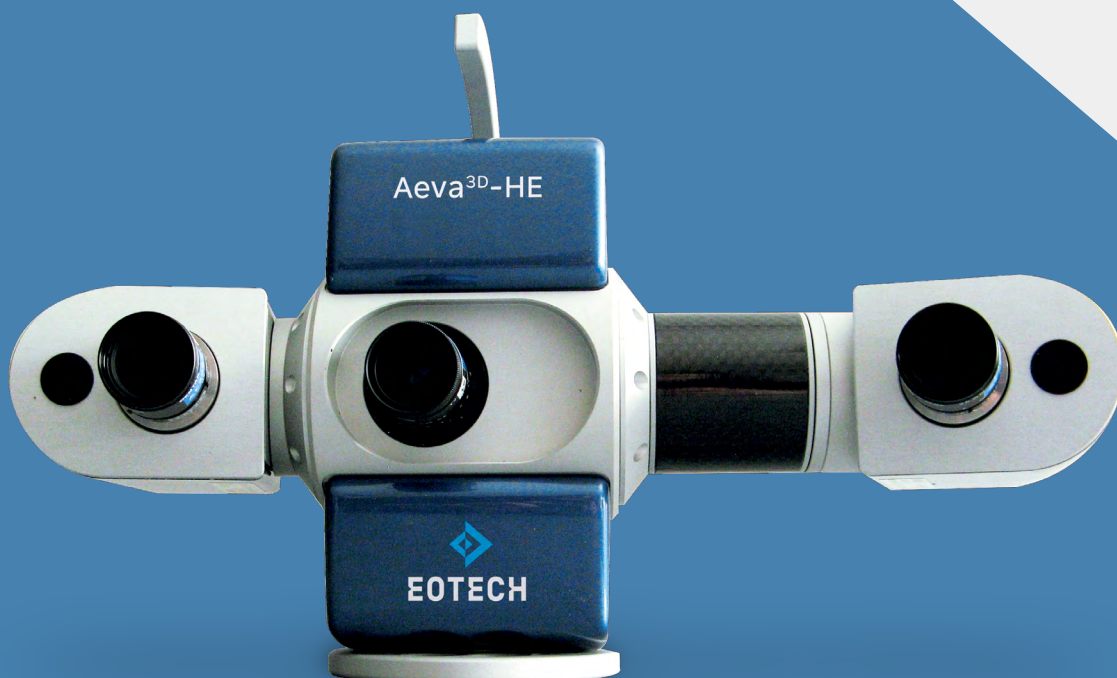


Skin, Face
& Body

Aeva^{3D}-HE

The Universal Solution
for **in vivo testing**

.....
High resolution 3D solution, high demanding
measurement system for skin topography,
face topology and body morphology 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 body part).

Positioning: The panelists are installed on the visio-4D or into the visioTOP 500 bench for stable and repeatable positioning and re-positioning between the different measuring times 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 and sagging, cheek, nasal folds, glabella, dimples and nodules for cellulite



Global face: Topology changes: re-pulping, firming, fine lines & wrinkles visibility*, oval and sagging

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



Body part: Morphology changes: Thigh, Abdomen, waist, breast, neck, calf, arms, dimples and nodules for cellulite

Advantages/benefits:

- All in one system with multiple fields of view capability
- High performance system, robust and reproducible
- Flexible system offers local to global analysis (face & body)
- Simple to use, minimum setting and skill required

Claims support:

Local zone:

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

Global face:

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

Body part:

firming, slimming anti-cellulite

Technical Data

Configurations:

Field Of View	110	160	250	450
Local	✓	✓	✓	
Global Face		✓	✓	✓
Body Parts				✓



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)



Global face: 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 FOV used is good enough



Body part: (only with Visio-4D bench): Comparison on the shape change with statistical deviation parameters and pseudo color display. Volume of the difference, section length, distance between points and angle calculations. Volume and circumference of the body part
 Waviness statistics for cellulite dimples and nodules. Section length, distance and angle measurements

Linked Products:

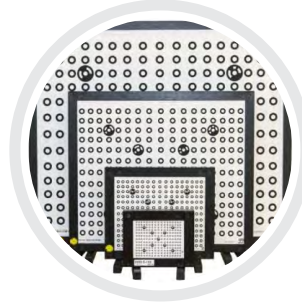
Positioning benches



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: 350 mm Operating distance: 530 mm				
Field Of View	110	160	250	450
Field Of View depth (mm)	70 x 60	120 X 102	170 X 140	330 x 285
Measuring depth (mm)	50	80	100	300
X, Y resolution (µm)	30	50	69	138
Resolution limit (z) (µm)	2	3	4	8
Feature accuracy (µm)	10	15	20	38

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	4.5 kg	
Dimensions	W 375 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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