



EOTECH
more for science



Skin, Face
& Body

AEVA-HE²

The most versatile system
for **in vivo testing**

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High demanding 3D solution for high resolution
measurements of 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 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 high stability components, different field of views 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 into the VisioHOP or the VisioTOP 500 bench for stable and repeatable re-positioning between the different measuring time points. It becomes much easier to manage the volunteers and to get reliable and repeatable results.

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

Applications



Local zone: Skin micro structure, pores, fine lines & wrinkles evaluation*, eye bags, lips, sagging, cheek, nasal folds, glabella, dimples and nodules for cellulite, skin replica

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



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

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



Body part: Morphology changes thigh, legs, abdomen, waist, breast, neck, arms, dimples and nodules for cellulite

Advantages / benefits:

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

Claims support:

Local zone:

anti-aging, anti-wrinkles, repulping, smoothing, pores reduction, hydration

Global face:

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

Body part:

firming, slimming anti-cellulite

Technical Data

Configurations:

Field Of View	S	M	L	XL
Local	V	V	V	
Global Face		V	V	V
Body Parts				V



Local zone: 2D or 3D roughness statistics, height distribution on topographies
 Statistics on pores, fine lines, wrinkles and folds (number, volume, area, depth, circumference)
 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: 3D shape changes with statistical deviation and pseudo color display
 Volume of the difference, section length, distance between points and angle circulations
 Skin features density (pores, fine lines wrinkles and folds)*
 * Only if spatial resolution of the FOV used is good enough



Body part: (only with VisioHOP bench): 3D shape changes with statistical deviation and pseudo color display
 Volume of the difference, section length, distance between points and angle circulations
 Volume and circumference of the body part
 Surface waviness statistics for cellulite dimples and nodules

Linked Products:

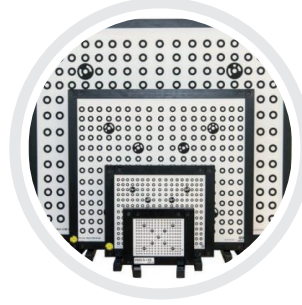
Positioning benches



Step gauge



Calibration plates



Color texture

a high resolution color camera fixed to the AEVA-HE² and LED lighting integrated to the benches allow color texture on the 3D data

Measurement specifications:

Field Of View	S	M	L	XL
Field Of View depth (mm)	80 x 65	135 X 110	185 X 150	370 x 325
Measuring depth (mm)	50	80	120	300
X, Y resolution (µm)	33	55	75	151
Resolution limit (z) (µm)	2	3	4	8
Feature accuracy (µm)	10	15	20	50

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 415 x D 235 x H 226 mm		
Power supply	AC 110/230 Volt, 50-60 Hz		
Control unit	150 W, USB 3.0		
Computer configuration	Hard Drive	SSD 2 Tb	
	Processor	High end i7 or i9 latest gen.	
	Graphic card	Nvidia Quadro / RTX	
	RAM	32 Gb	
	Operating system	Microsoft Windows 10 x64 Bit	

Contact

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