EOTECH
more for science
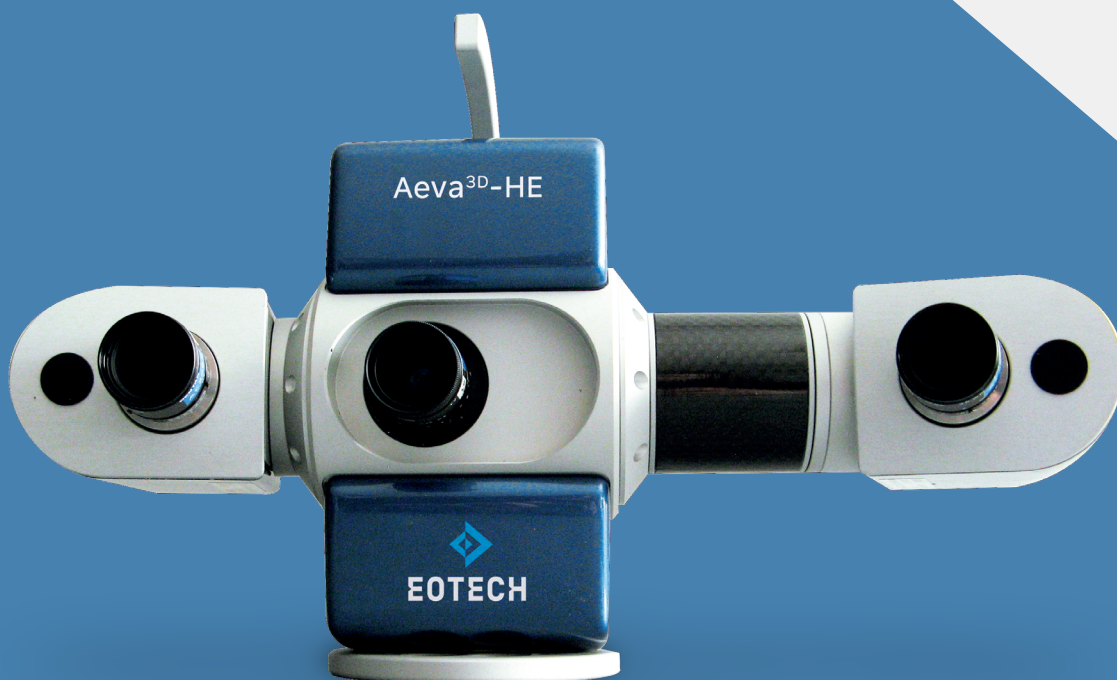
Aeva³ᴰ-HE

The Universal solution for **in vivo testing**

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

Aeva³ᴰ-HE

EOTECH

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, 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 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 FOV used is good enough

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

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

Advantages/benefits:

- All in one system with multi-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

Technical Data

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
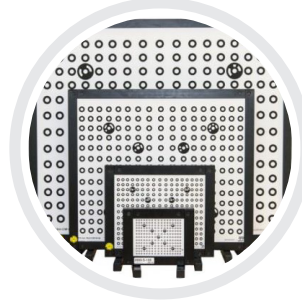
Linked Products:

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 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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✓ Skin

DermaTOP³ᴰ-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 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, 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 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 the FOV used is good enough

Claims support:

Local zone:
Anti-ageing, anti-Wrinkles, pores reduction, smoothing, hydration, repulping

Face part:
rejuvenation, fillers, mesotherapy, firming, reshaping, restructuring, anti-ageing

Advantages/benefits:
- All in one system with multi-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

Technical Data

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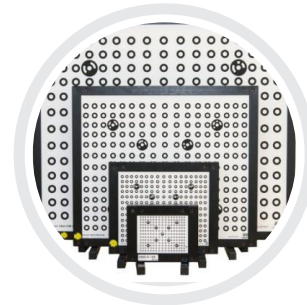* Only if spatial resolution of the FOV used is good enough

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

Triangulation angle: 32 degrees Base length: 240mm Operating distance: 370 mm		
Field Of View	60	125
Field Of View depth (mm)	48 x 36	100 X 75
Measuring depth (mm)	20	60
X, Y resolution (µm)	30	40
Resolution limit (z) (µm)	1	2
Feature accuracy (µm)	+-7	+-9

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 3.5 GHz
	Graphic card	Nvidia Quadro >2Go
	RAM	24 Go
	Operating system	Microsoft Windows 7 x64 or Windows 10

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EvaSKIN³ᴰ-S5
EvaFACE³ᴰ-S5

The Standard Skin Scanners
for **in vivo testing**

High resolution measurement system
for skin topography and face
topology changes

EvaSKIN³ᴰ-S5
EvaFACE³ᴰ-S5

EOTECH

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, 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 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: **EvaSKIN³ᴰ-S5** for skin micro structure, pores, fine lines & wrinkles evaluation, skin replica, eye bags, lips and sagging, cheek, nasal folds, glabella, dimples and nodules for cellulite

Face part: **EvaSKIN³ᴰ-S5** for topology changes: re-pulping, firming, fine lines & wrinkles visibility*, sagging
* Only if spatial resolution of the FOV used is good enough

Global face: **EvaFACE³ᴰ-S5** for topology changes: re-pulping, firming, fine lines & wrinkles visibility*, oval and sagging
* Only if spatial resolution of the FOV used is good enough

Claims support:

Local zone:
Anti-ageing, anti-Wrinkles, pores reduction, smoothing, hydration, repulping

Face part or global:
rejuvenation, fillers, mesotherapy, firming, reshaping, restructuring, anti-ageing

Advantages/benefits:
- High performance system, robust and reproducible
- Flexible system offers local to Face part analysis
- Simple to use, minimum setting and skill required
- Good value price performances

Technical Data

Field Of View	125	300
Local	☐	
Face part	☐	☐
Global face		☐

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 & Global: 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 FOV used is good enough
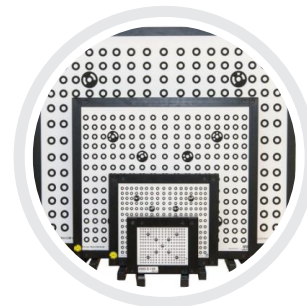
Linked Products:

Positioning benches
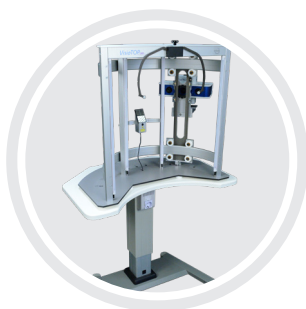
Step gauge

Calibration plate

Measurement specifications:

	Triangulation angle: 27 degrees Base length: 270 mm Operating distance: 370 mm	
System	EvaSKIN	EvaFACE
Field Of View	125	300
Field Of View depth (mm)	100 x 75	270 X 180
Measuring depth (mm)	65	150
X, Y resolution (µm)	40	82
Resolution limit (z) (µm)	5	10
Feature accuracy (µm)	±9	±15

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 300 x D 210 x H 175 mm
Power supply		AC 110/230 Volt, 50-60 Hz
Control unit		150 W, USB 3.0
Computer configuration	Hard Drive	1 To
	Processor	Xeon 3.5 GHz or I7 6820 or higher
	Graphic card	Nvidia Quadro >2Go
	RAM	16 Go
	Operating system	Microsoft Windows 10 x64

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Skin, Face
Body, Hair

EvaTHERM

The Compact Thermal Camera
for **in vivo testing**

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Higlhy sensitive imaging
of thermal changing on skin

Method

Technology: TheThe EvaTHERM is a imaging system, designed to measure the thermal distribution and changes with 0.4°C resolution. The optoelectronic sensor allows detecting the infrared radiation from the skin and calculates the surface temperature.

Positioning: The panelists are installed on the visioTOP or visio-4D 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 evaTHERM software allows to record thermal images and videos. The temperature can be measured on multiple zones.

Applications

Local zone: Temperature distribution, hot spots

Global Face: Before / after temperature change and distribution Real time temperature change

Body: Temperature evolution and distribution on a body part

Advantages/benefits:
- High sensitivity system, robust and reproducible
- Most compact of its category
- Simple to use, minimum setting and skill required
- Good value price performances

Claims support:

Local zone:
Follow up erythema, inflammation , hots spots, solar protection

Face:
Refreshing, sensitive skin, pollution

Hair:
Protection, heating, combing

Body:
Cellulite, Warming, Draining, body wellness, Spa

Technical Data

Field Of View	29° x 22°	53° x 40°
Local	☐	
Global face	☐	☐
Body		☐

Local zone/Global Face/Hair/Body:

Pseudo color coded image showing temperature distribution
Video with pseudo color showing temperature evolution over time
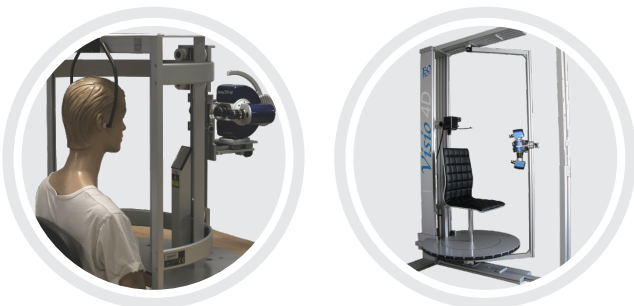Real time difference from a reference thermal image
Minimum / maximum, mean value of temperature - Main measure areas,
hot spots, cold spots - Temperature difference between zones - Horizontal / vertical
temperature profiles - Temperature-time diagram - Thermal histogram

Linked Products:

Positioning benches

Measurement specifications:

Triangulation angle: 32 degrees **Base length: 350 mm** **Operating distance: 530 mm**						
Field Of View	250	470	361	677	465	873
Objective	29° x 22°	53° x 40°	29° x 22°	53° x 40°	29° x 22°	53° x 40°
Bench	VisioTOP 300	VisioTOP 300	VisioTOP 500	VisioTOP 500	Visio-4D	Visio-4D
Dimension XY (mm)	200 x 150	380 x 276	289 x 216	548 x 398	372 x 278	706 x 513
Resolution XY (mm)	0.5	0.89	0.73	1.29	0.95	1.68
Working distance (mm)	370	540	370	549	700	700

Technical specifications:

Camera resolution	382 x 288 pixels
Spectral band	7,5 to 13 µm
Acquisition frequency	80 Hz
Temperature range	-20 to 100°
Sensor weight	320 g
Dimensions	45 mm x 45 mm x 62 mm / IP 67
Power supply	Via USB2 or 3.0 interface
Precision	± 2%
Computer configuration	Windows 7-64 and up or Windows tablet

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