EOTECH
more for science

Skin

# DermaTOP-HE²

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 high stability components, different fields of views are available by simply changing objectives sets to switch from small to large measurement areas (from skin structure to face part).

**Positionning** The panelists are installed into the VisioTOP 300 positioning 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, skin replica.

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

**Advantages / benefits:**

- High resolution system with 2 fields of view capability
- High performance, flexible, robust and reproducible
- It offers local to face part analysis
- Simple to use, minimum setting and skill required

## Claims support:

**Local zone:**

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

**Face part:**

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

# Technical Data

## Configurations

| Field Of View | 60 | 125 |
|---|---|---|
| Local | V | V |
| Face part | | V |

**Local zone:** Multi zone extraction and analysis
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)

**Face part:**
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)*

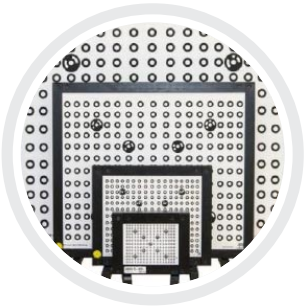
* Only if spatial resolution of the FOV used is good enough

## Linked products

**Positioning bench**

**Step gauge**

**Calibration plate**



**Color Texture Option** 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 | 60 | 125 |
|---|---|---|
| Field Of View depth (mm) | 50 x 40 | 100 X 80 |
| Measuring depth (mm) | 32 | 60 |
| X, Y resolution (µm) | 20 | 40 |
| Resolution limit (z) (µm) | 1 | 2 |
| Feature accuracy (µm) | +-5 | +-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 | 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 |

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