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SOTECH

V Hair

MiniSURF

Ex-vivo 3D imaging system for micro-surfaces analysis

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Product description

echnology MiniSURF is a full field optical profilometer, based on phase shifting interferometry. This microscope combines a black and white camera, a 50x high end interferometric lens, a LED light source and a high accuracy piezo electric motor. The optical head is mounted on a robust column fixed on a passive antivibration table.

Main features No sample preparation is required. Being based on non contact techniques, it is a non destructive measurement. Its unique algorithm provides both contrast images and calibrated sufrace measurements and especially roughness parameters according to linear profiles, making it a perfect tool for hair surfaces state measurement.

Software The MiniSURF software will guide the user to acquire the surface structure, and will calculate parameters like profiles and surface roughness, structure porosity and other parameters. The software allows to visualize contrast image and surface topography with stuning rendering, in order to illustrate clinical studies and to support the associated cosmetic claims for hair care products.

Applications



Single hair measurement:

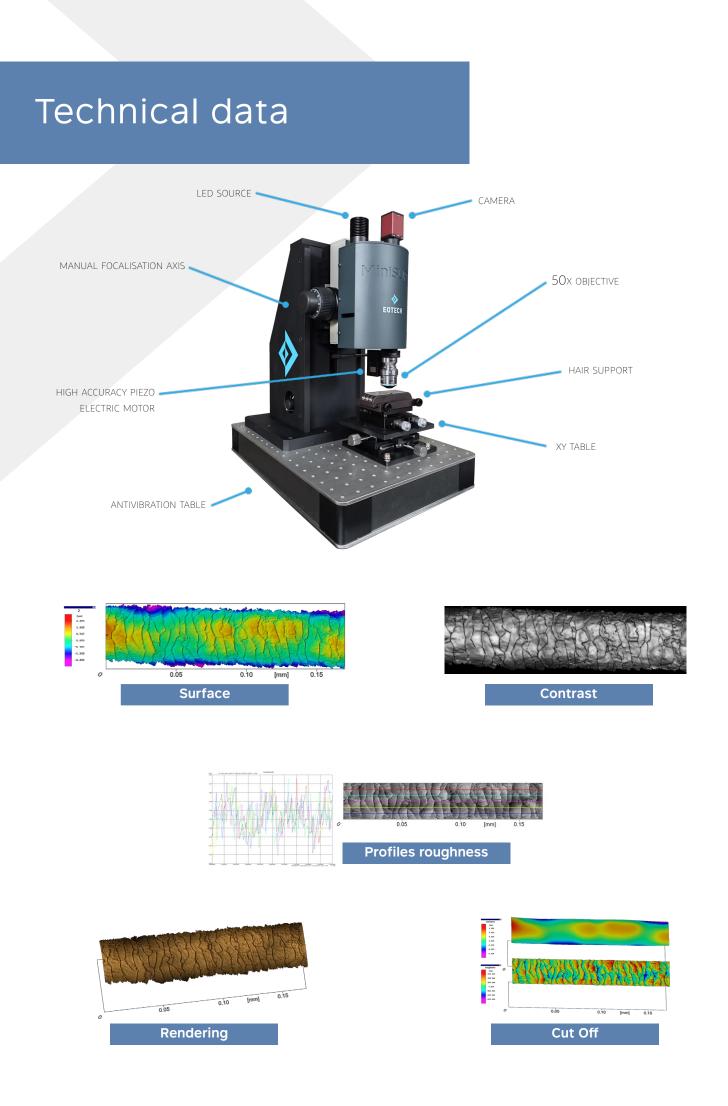
- Illustrations
- Scale and damages

Advantages :

- Compact device
- Cost effective solution
- Non destructive
- Quantitative and qualitative results
- All-in-one software

Cosmetic claims:

- Gloss
- Repair
- Smoothing
- Sheathing



System specifications

| Characteristics | Value |
|-----------------|---|
| Illumination | LED (Wavelength : 565 nm ; FWHM : 104 nm) |
| Camera | 1456 x 1088 pixels (1.6 Mp) |
| XY range | 50 x 50 mm² |
| Zrange | 30 mm |
| Focus range | 100 µm |
| Weight | 30 kg |
| Size (LxHxP) | 450 x 450 x 300 mm |

Imaging specifications

| Characteristics | Value |
|----------------------------|-----------|
| Magnification | 50X |
| Measurement surface (µm²) | 160 x 120 |
| Working distance (mm) | 3.4 |
| Optical resolution (µm) | 0.5 |
| Lateral sampling (µm) | 0.11 |
| Standard Z resolution (µm) | 0.05 |

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