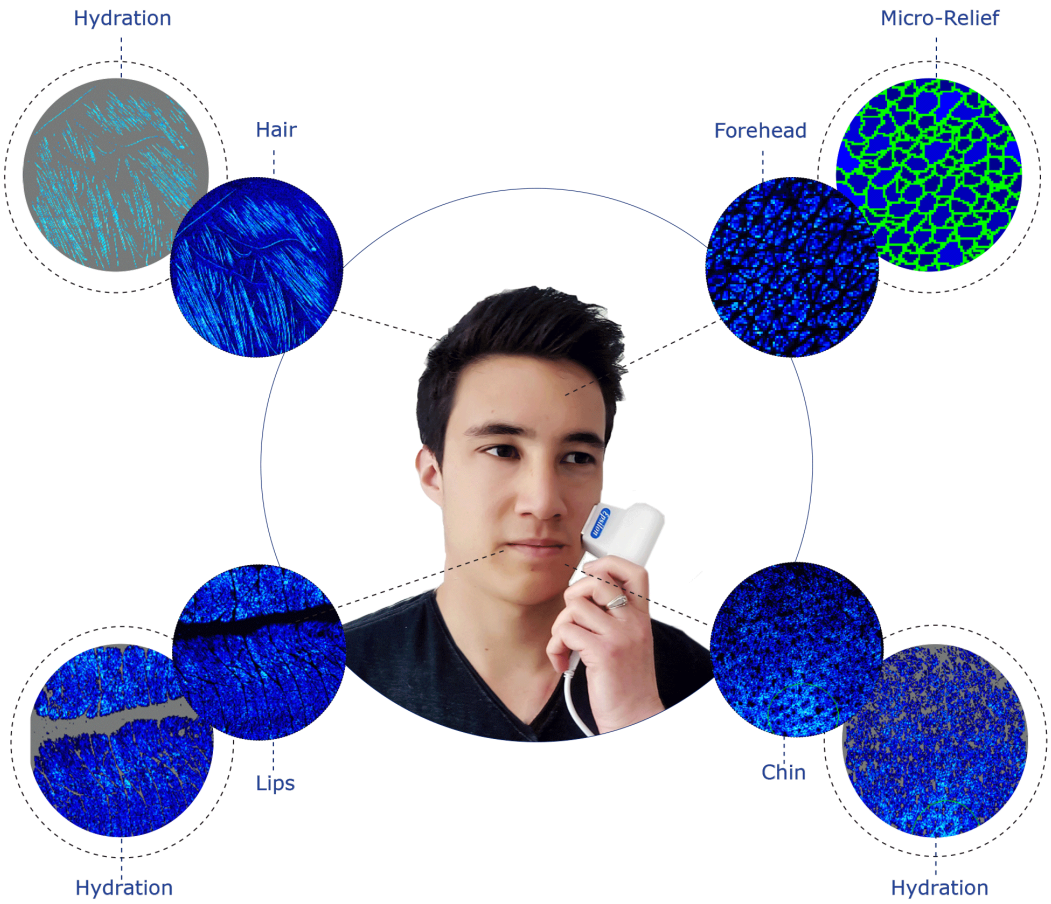
BioX
SCIENCE OF PRECISION

# Epsilon

## IMAGE + HYDRATION DATA MEASUREMENT




**One Instrument Several Applications** in vivo + in vitro

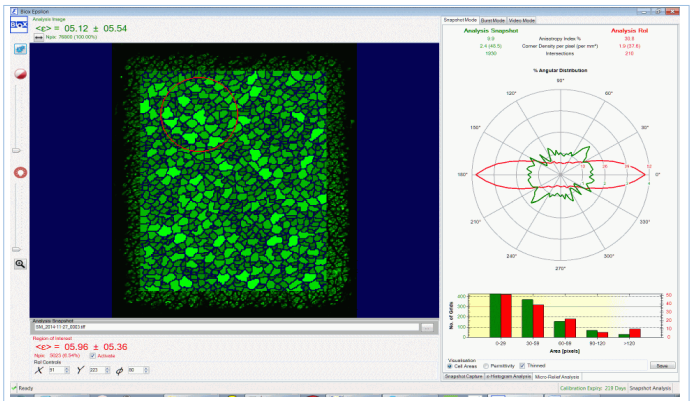
Unique Technology Combines Hydration Images With Numerical and Graphical Data

Innovation | Accuracy | Results

# Epsilon

## IMAGE + HYDRATION DATA MEASUREMENT

The Epsilon **integrated** technology provides both **image and hydration data** simultaneously (suitable for both in vivo + in vitro measurements). It differs from similar devices in its **linear** and **calibrated** response, where every pixel in the image provides a **reproducible** measurement that can be interpreted in terms of hydration. Equipped with **76800 sensors** the Epsilon can measure SC hydration with greater **accuracy** and flexibility than conventional single-sensor probes.



Since April 2016, Biox has an unrestricted, non-exclusive, world-wide licence from L'Oréal to exploit their SkinChip patents EP1438922 & EP1177766 relating to non-optical imaging on non-dermatoglyphic skin, hair and mucous membranes. Under this licence, all Epsilon images and measurements claimed in these patents can be used for all purposes, including commercial purposes such as claims support and advertising.

## Unique Features

- Visualisation And Measurement
- Linear and calibrated response
- Hydration imaging with 256 intensity levels
- Image filtration to remove artefacts
- Snapshot, burst & video capture & analysis
- Event-triggered image capture
- Heterogeneity analysis via StDev, RoI & histogram
- Real-time RoI & histogram displays
- 5µm sensing depth specifically targets the stratum corneum, making it the most sensitive skin hydration measurement instrument
- Ergonomic design
- Free software updates

## Usability

- Live streaming to 300 frames/minute
- Comprehensive records of measurements & analyses
- Spring-loaded sensor for consistent contact force
- in vitro accessories
- Dual display of reference & analysis images
- Analysis option without a connected instrument
- Excel-compatible analysis results files
- Powered by USB

## Applications

- Efficacy and claims support
- Static & dynamic hydration imaging
- Skin ageing micro-relief analysis
- Skin lesion and sun damage visualisation
- Hair moisture assessment

## Specifications

- Capacitance measurement principle
- 50µm image resolution (508DPI)
- Foot switch optional
- Sensing area 12.8 x 15mm, 76800 pixels

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