

Dermatological Research



VivoSight Dx Pro pairs highest quality skin imaging with remarkably simple operation. Taking only seconds, OCT imaging gets you under the skin surface to better understand disease pathophysiology and enables quantitative monitoring of therapy effects.

Optical Coherence Tomography (OCT) provides rapid, non-invasive and repeatable quantification of treatment efficacy. High resolution imaging visualises key aspects of skin physiology and can enable measurement of sub-clinical therapy effects.



- ✓ Device cleared for use in clinical settings
- 👤 Completely non-invasive, better accepted by your subjects/patients
- 🕒 Full 3D scans acquired in just 15 seconds
- 🔗 Full quantitative analysis to accelerate your skin research
 - Epidermal remodeling and thickness measurement
 - Alterations in vascular morphology
 - Vascular diameter, density and depth as a measurement of inflammation
 - Dermal brightness as a proxy for collagen density
 - Skin surface roughness
- 🔄 Repeatable - accurate monitoring of treatment efficacy, including sub-clinical effects
- 💰 Cost effective - quantitative analysis significantly reduce study time and costs compared with subjective qualitative measures

"We use OCT not only for NMSC, but it is also an effective modality to assess stages of inflammatory and autoimmune disease such as atopic dermatitis, psoriasis and bullous disease. OCT distinguishes micromorphology of the condition and excellent vascular imaging capabilities add another layer to characterize the pathology often indicating degree of disease severity including subclinical disease."

Prof. Giovanni Pellacani MD, Chair of Dermatology at Sapienza University of Rome, Italy

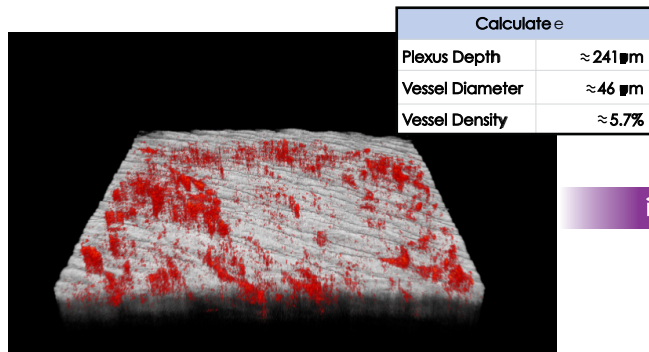
VivoSight Dx Pro - Optical Coherence Tomography

Visualize and quantify pathophysiology - in real time

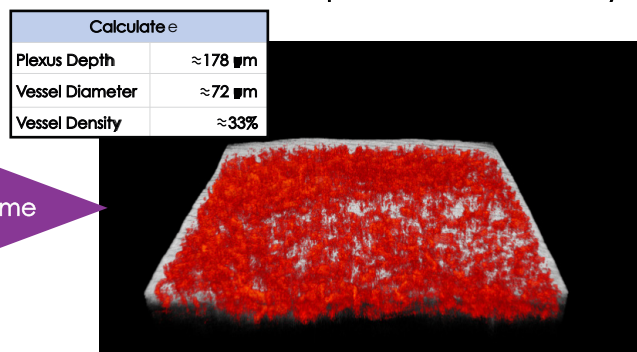
VivoSight Dx Pro skin imaging gives you the Whole Picture: the wide 6x6mm scan field-of-view and deep >1mm imaging penetration providing detailed insights into pathophysiology and therapeutic effects. For example, VivoSight can image and measure changes to epidermal thickness and vascularity in treatments for Atopic Dermatitis, Psoriasis and many other inflammatory conditions, as shown below.

Measure skin blood vessel density & diameter and their changes in response to treatment:

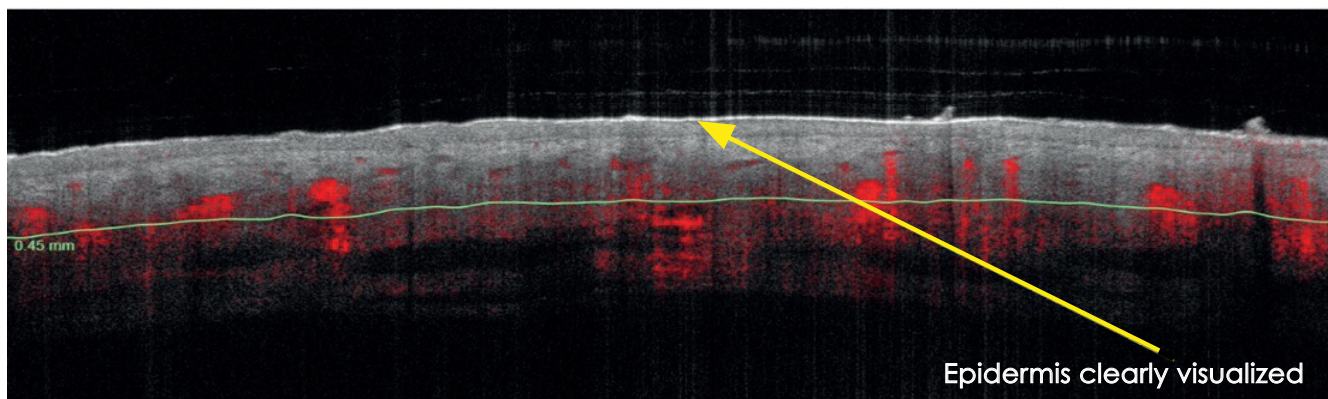
Normal scan of volar forearm



Same site after exposure to inflammatory agent



Precisely measure epidermal thickness and other skin parameter changes in response to disease and then treatment:



Results

| Measure | Value |
|------------------------------------|--------|
| Attenuation coefficient / mm-1 | 2.05 |
| Dermal brightness | 0.88 |
| Epidermis detected? | Y |
| Epidermal thickness / μm | 83.46 |
| Epidermal thickness variation / μm | 43.93 |
| Epidermis contrast / % | -11.81 |

Measurements of skin properties provided by VivoTools™ software option

VivoSight Dx Pro is a Class 1 Laser Product



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