Antera 3D® CS
Skin analysis as it should be
The Antera 3D® CS is a versatile, accurate research-grade instrument ideal for cosmetic manufacturers, contract research organisations and laboratories carrying out claim support and efficacy studies.

**Skin profilometer**
Measure a wealth of parameters related to skin roughness, pores, wrinkles and volumes.

**Multi-spectral analyser**
Measure the average concentration and uniformity of melanin and haemoglobin, and their hyper- and hypo-concentration.

**Colorimeter**
The Antera 3D® CS works as a colorimeter, providing L*a*b* colour values for any point within the camera field of view.

**Accuracy and repeatability**
The Antera 3D offers high standards of measurement accuracy and repeatability, as well as a high specificity in resolving melanin from haemoglobin.

**Fast acquisition**
No set up time required plus a fast acquisition time means high image acquisition throughput.

**No lengthy training**
Because the camera is so easy to use and the software so intuitive, training can be kept to a minimum.

**Fast and easy data analysis**
Analysis of results is simple, quick and easy to interpret thanks to graphics-oriented Reports. Export of raw data and measured parameters enables interaction with other software packages (e.g. Microsoft Excel).

**Selected publications**

- R. Matias, M. Ferreira, P. Costa, “Skin colour, skin redness and melanin biometric measurements: comparison study between Antera® 3D, Mexameter® and Colorimeter®”, accepted for publication in Skin Research and Technology, Manuscript ID SRT-0098-14.

**Topography Measurements**
- Wrinkles’ (depth, width, indentation index, maximum depth)
- Texture (Rq, R1, Rq)
- Pores (volume, index, count, density, mean pore volume and area)
- Volume of depressions (maximum valley depth, RV)
- Volume of elevations (maximum peak height, RP)

**Chromophores’ Measurements**
- Pigmentation (average concentration and uniformity)
- Pigmentation (hyper-concentration, hypo-concentration, affected area)
- Redness (average concentration and uniformity)
- Redness (hyper-concentration, hypo-concentration, affected area)
- Erythema measurements

**Colour Measurements**
- L*a*b* values
- L*a*b* variation – ΔL*, Δa*, Δb*
- Overall colour variation Δ(L*a*b*)

**Before & After Comparison**
- Spot-On (automatic selection matching)
- Manual matching and manual adjustment of selected area
- Analyse any numbers of images simultaneously

**Report**
- Create, save and print report
- Export report in HTML and PDF
- E-mail report

**Data Export**
- Export view in JPEG
- Export measured parameters
- Export raw data (z-elevation, L*a*b* values, melanin, hemoglobin)

**Other Features**
- Remote camera control
- Option to attach camera to a tripod

Minimum system requirements:
- Windows 7, 32 or 64 bit, 1 Ghz Core 2 Dual processor, 2Gb RAM USB2 interface, 1GB AMD (ATI), NVIDIA or HD Graphics
- MAC - COMING IN 2015 OSX 10.7+

**Accuracy and repeatability**
Fast acquisition

**Colour Measurements**

**Before & After Comparison**

**Report**

**Data Export**

**Other Features**