

Visioscan® VC 98 – Unique Description of t

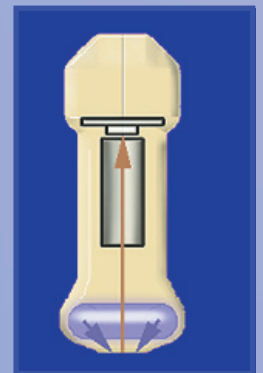
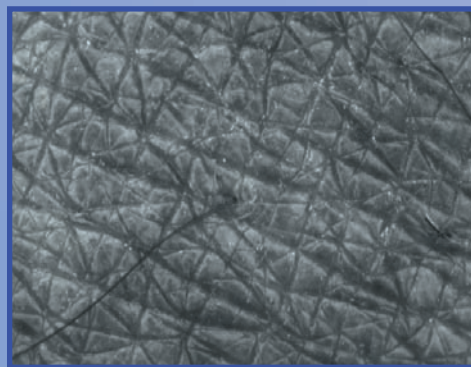
Special UV-A light video camera with high resolution has been developed especially to study the skin surface directly. The images show the structure of the skin and the level of dryness very impressively. With the foils Corneofix® F 20 and Sebufix® F 16 desquamation and sebum production can be evaluated. With its multi functional software, the Visioscan® VC 98 is a very unique flexible system to characterize skin surface condition easily, accurately and very economically. Interesting studies were done with this measurement method.

Fields of Application

There are numerous fields of applications. Besides efficacy testing and claim support for cosmetics, pharmaceuticals, detergents and objective clinical diagnosis in dermatology, there are also applications in occupational medicine, medical consultancy and many more fields.

Description

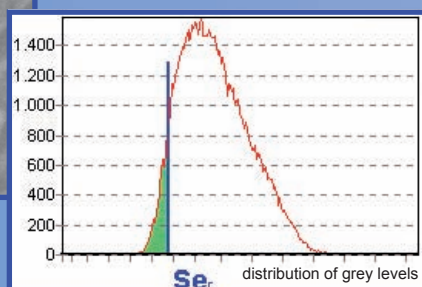
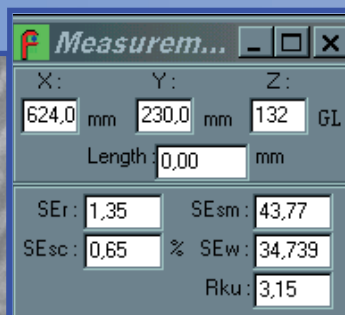
The camera features a high resolution b/w video sensor and a ring shaped UV-A light source (proven to present no hazard to normal human skin) for uniform illumination of the skin.



With its special light it brings out a very sharp, non glossy image. Especially pigmentation underneath the skin is visible with the UV-light.

The Software

The camera can be connected to the computer by the digitalization unit Video Digitizer® VD 300 via FireWire port. A live image is always visible in the software. The image freezing button is controlled by USB. In addition to the image processing function, special software permits the calculation of a variety of skin surface parameters:



SELS (Surface Evaluation of the Living Skin)

This evaluation method was developed by the Institute for Experimental Dermatology, Prof. Tronnier, University of Witten-Herdecke, Germany.

The grey level distribution of the image is used to evaluate – within one second - four clinical parameters to quantitatively and qualitatively describe the skin surface as an index:

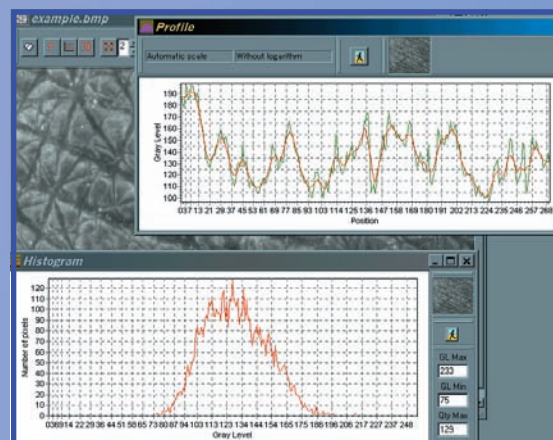
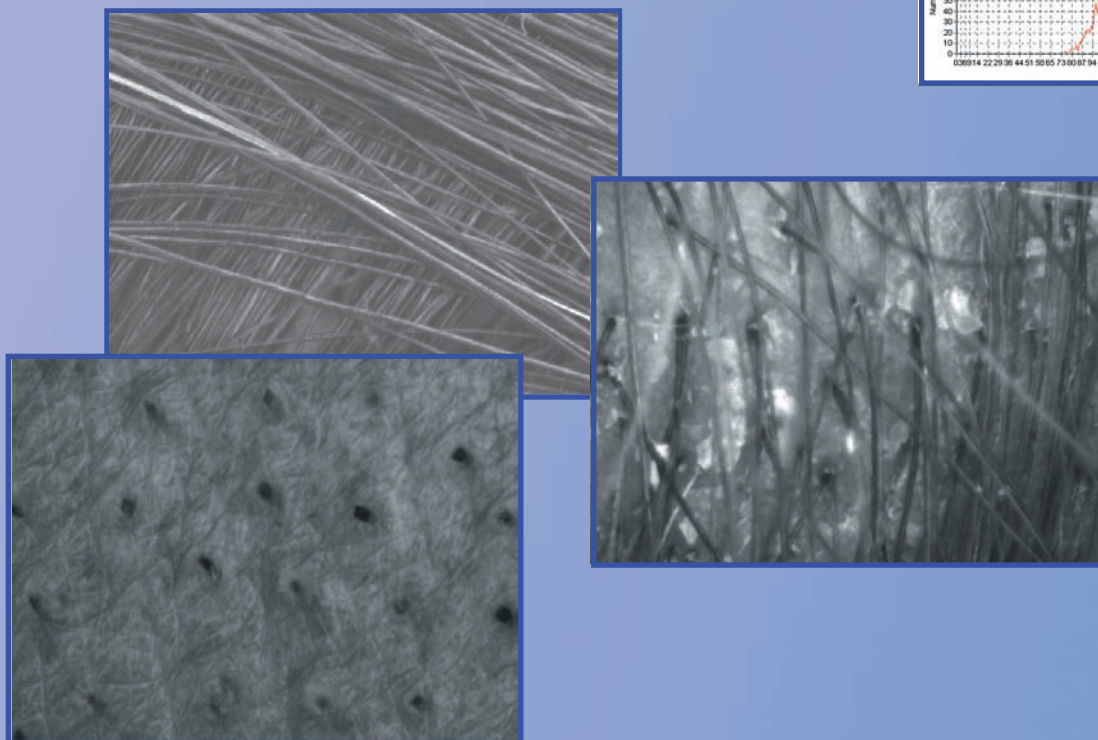
Skin smoothness (Se_{sm}), Skin roughness (Se_r), Scaliness (Se_{sc}), Wrinkles (Se_w).

The Skin Topography directly from the Skin

A macro function allows the analysis of many images at the same time.

The software offers in addition other interesting functions.

Hair measurements (e.g. hair length after shaving) can be easily done.

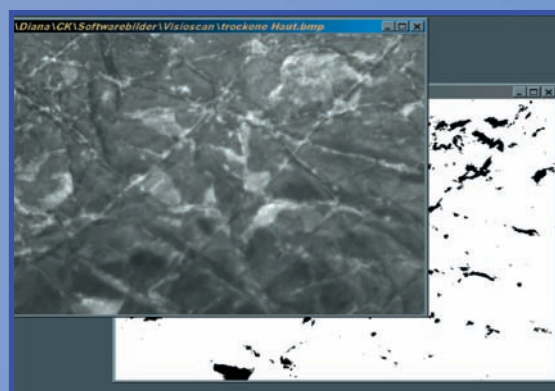


Desquamation Measurement

Especially desquamation on skin and scalp appears impressively as it becomes fluorescent under the UV-A light. It can be evaluated directly on the skin or taken with the special foil Corneofix®.

Sebum Production

Evaluation of the sebum production with the special foil Sebufix®.



All results can be stored and printed out together with the images, and are automatically available for further calculations in spreadsheet analysis (e.g. Excel®).

Easy and quick calibration of the system is possible at any time.

The Visioscan® and the Visiometer® are also available as combination instrument.

Technical Data:

Dimensions: approx. 118 x 56 x 48 cm, Weight: 250 g, Image size: 6 x 8 mm, Resolution: 640 x 480 pixel on PC screen

Light source: UV-A light (340-400 nm, peak at 375 nm), Video sensor: 1/3" CMOS chip

Power supply: 100-240 V AC, 0.3 A, 50-60 Hz

Video digitalization unit: Dimensions: 23 x 12 x 5 cm, Weight: approx. 1.5 kg, Image transfer via FireWire, Interface: USB

Technical changes may be made without previous notice