

## What does it measure?

The Visioscan® VC 98 USB is a special UVA-light video camera with high resolution to study the skin surface directly. The images show the structure of the skin and the level of dryness very impressively.

## The Measuring Principle

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.

## Fields of Application

- Efficacy testing and claim support for cosmetics, pharmaceuticals and detergents.
- Objective clinical diagnosis in dermatology.
- Occupational medicine, medical consultancy and other applications.

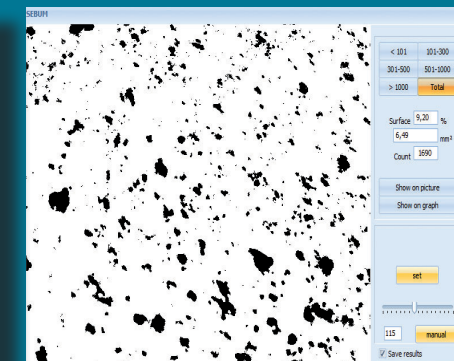
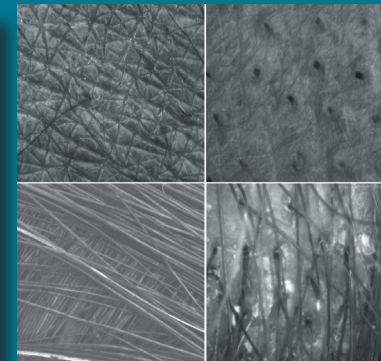
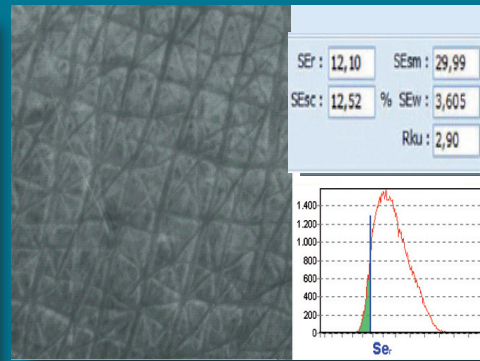
## Software & Parameters

The camera can be connected to the computer by USB. A variety of interesting parameters can be determined:

- The evaluation method SELS (Surface Evaluation of the Living Skin)\* analyses the grey level distribution and allows the calculation of 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 ( $Se_w$ ).
- Evaluation of desquamation directly on skin & scalp or with the foil Corneofix® F20.
- Determination of sebum production with the foil Sebufix® F16 .
- Additional interesting functions e.g. hair length measurement after shaving possible.

## Advantages

- The special UV-light gives a very sharp and non-glossy image
- Pigmentation underneath the skin surface can be shown very well.
- Comfortable USB-connection.
- All results can be stored, printed out together with the images and exported to spreadsheets (Microsoft Excel®).
- Easy and quick calibration of the system.
- A macro function allows the analysis of many images at the same time.
- The Visioscan® VC 98 USB can be used together with the Skin Visiometer® SV 700 as combination instrument.



\* developed by the Institute for Experimental Dermatology, Prof. Tronnier, University of Witten-Herdecke, Germany

### Technical Data

Dimensions: 11.8 x 5.6 x 4.8 cm; Weight: 250 g; Image size: 12 x 9.5 mm; Sensor resolution: 1/2» B/W CMOS-sensor 1.3MP (1280 x 1024 pixels); Light source: UVA Cold light tube (380-395 nm, peak at 387 nm)  
 Connection box: Dimensions 14x5.5x15 cm; Weight 1 kg; Interface: USB 2.0  
 Power supply: Input: 110-250 V, 47-63 Hz, Output: DC 12V/1A  
 Technical changes may be made without prior notice.

Courage+Khazaka electronic GmbH since 1986  
 Mathias-Brüggen-Str. 91 · 50829 Köln · GERMANY  
 phone +49 (0)221. 9 56 49 90 · fax +49 (0)221. 9 56 49 91  
 info@courage-khazaka.de · www.courage-khazaka.de

