

microDERM®

microDERM Hair®

The Digital Trichogram

MicroDERM® Hair at One Glance

- Digital Trichogram
- supporting diagnostics and therapy control
- maximum supplement for hair consulting hour
- painless and simple in application
- impressive representation of results
- printing of evaluation data
- short time of amortisation
- effective marketing tool

The Ideal Supplement for the Hair Consulting Hour

The treatment of patients with hair problems is an increasingly important theme in dermatological consulting offices. Of course it is not always possible to display the specific hair situation to the patient and to explain the therapeutical application clearly and convincingly since the conventional methods, as for instance phototrichogram, take quite a long time and are painful. A convincing display of the findings is also not possible.

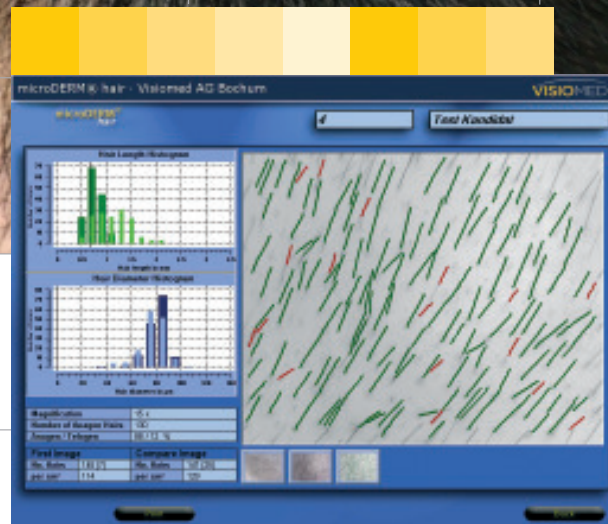
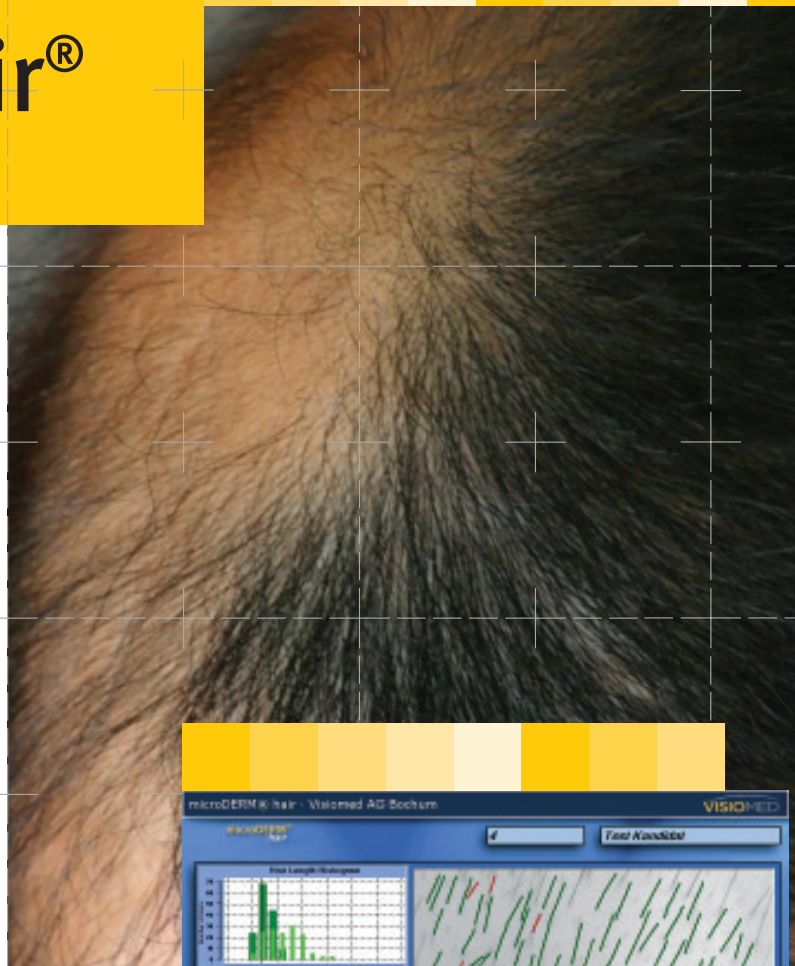
Date	2002-06-25
Session	3
Spot	27
Location	HEAD



For these reasons we have developed the software modul microDERM® Hair on the basis of our successful microDERM® system.

A professional instrument which enables you to do justice to a patients desire for a qualified and objective hair analysis and accurate treatment. The microDERM® software is based on the most modern, scientifically secured, procedures of image analysis and computer intelligence.

MicroDERM® analyses objectively and reproducibly. The analysis results are impressively represented to the patient and can be printed out after the examination.



microDERM® Hair Modular

Standardized high quality exposures are a prerequisite for a reliable diagnosis.

The microDERM® system not only offers this within the range of the reflected light microscopy but also with a modern and simple procedure for the examination of hair.

MicroDERM® Hair can be integrated into the microDERM® image system as an option or can be operated as stand-alone in connection with a digital camera on a Windows PC.

microDERM Hair®

The Professional Tool for Modern Hair Examination

Easy to Use - Precise Results

MicroDERM® is easily handled. You can prepare a significant digital trichogram painlessly and speedily. In order to check out hair diseases you shave a 10 by 10 mm large area on the head with the aid of the enclosed razor down to a hair length of 1 mm. The site to be shaved is chosen with the possibility in mind to cover it up with longer hair after the examination is finished. This way it is warranted that if the hair is only 4 cm long no troublesome bare areas will be visible. The area prepared in such a way will then be documented by a photographic exposure. Only two days later another photograph will be taken of the same area. Thereafter these two photographic images will be analysed within a few seconds with a aid of a picture processing algorithm.

The automated picture standardization guarantees the comparability of the portrayed area. The micoDERM® Hair based on an expert system analyses the alterations, shows them on the screen in a graphic manner, computes automatically the number of hairs, their lengths and diameter and the anagenic-telogenic ratio. The computed parameters give information about the patients current hair activity. Based upon the gained knowledge the dermatologist can find the suitable therapy and convince the patient of the proposed mode of acting.



MicroDERM® Hair is also very well suited for checking the results of the epilation. At a test area the hair will be photographed before beginning the epilation and will be counted by the system. Afterwards the epilation will take place and after a few weeks the newly grown hair in the test area will be photographed and counted again.

The successful epilation can thus be automatically and objectively and reproducibly recorded and documented.

Painless and Objectively

MicroDERM® Hair is a professional expert system for the painless preparation of digital trichograms. It enables you to compute the hair activity quickly and absolutely dependably. Based on highly developed algorithms for the recognition and computation of hairs it automatically computes the number of hairs, their lengths and diameters and also the anagenic- telogenic ratio and thusly analyses the patients hair activity. The results are numerically and graphically represented. In order to document the curing success the results can be reproducibly stored in a data storage and can be referred to for comparison.

microDERM® Hair Functions

- automatic computation of anagenic-telogenic ratio
- computation of number of hairs per square cm
- data alterations in the follow-up
- data display as histogram
- display if the anagenic and telogenic hairs as false-color image

Technical Specifications

- optional microDERM® modul
- connected with digital camera via USB
- integration in office PC possible
- connection to microDERM® data storage
- printing support for color printer

Secured quality: Designed and manufactured in accordance with the guidelines of ISO 9001/13485 and thegerman and european medicine product law (MPG).



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a new vision in medical technology