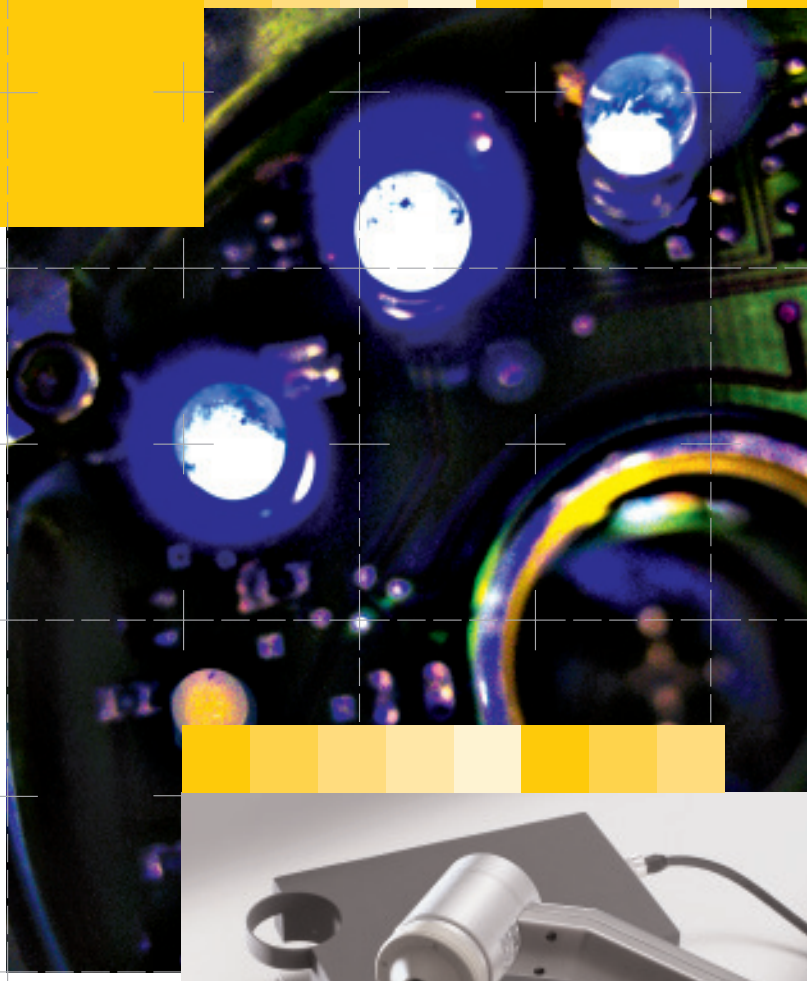
microDERM®

dynaSCAN

Photodynamic Diagnostics And Documentation



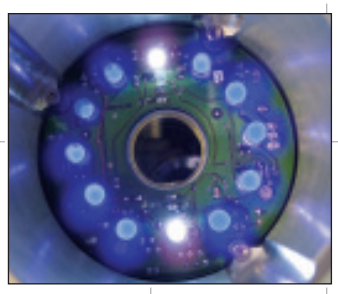
microDERM dynaSCAN At One Glance

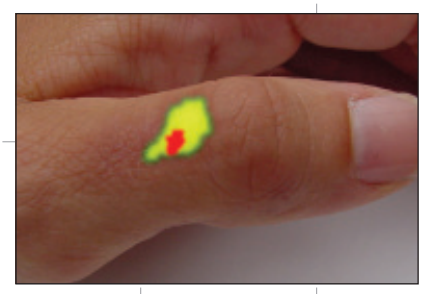
- photodynamic diagnostics (PDD)
- supported by diagnostics and therapy control
- maximum supplement for photodynamic therapy
- enables extremly precise localization of tumors
- examination under room light conditions
- safe: without Wood light and safety goggles
- short amortization time

Photodynamic Diagnostic: A Modern Method

The diagnostics and therapy supported by photodynamic procedures of actinical keratosis, base cell carcinoma, morbus Bowen, carcinoma spinocellulare and other inflamed skin diseases gets more and more important.

DynaSCAN supports these procedures by a non-invasive test procedure. A photo sensitizer simply spread on the skin locates the skin tumor and very precisely defines it against the healthy skin with the aid of fluorescence diagnostics. Display and exposure are working as with the microDERM reflective light microscoping at aa obviously standardized quality in order to secure a constant image quality.





Microprocessors and modern LED technology enable the superimposition of clinical image and fluorescence exposure taken in real time in order to locate the tumor promptly and excactly.

microDERM dynaSCAN Modular

Standardized exposures of highest quality are a prerequisite for making a reliable dyagnosis. The **microDERM®**-system not only offers this in the field of reflected light microscoping but also with a modern procedure for photodynamic diagnostics and therapy control.

DynaSCAN is thoroughly integrated into the **microDERM®** image system:

various enlargement steps. automatic control of camera and lighting for a standardized display quality, developement presentation and further use such as printing out and e-mailing.

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microDERM® dynaSCAN

Photodynamic Diagnostics And Therapycontrol

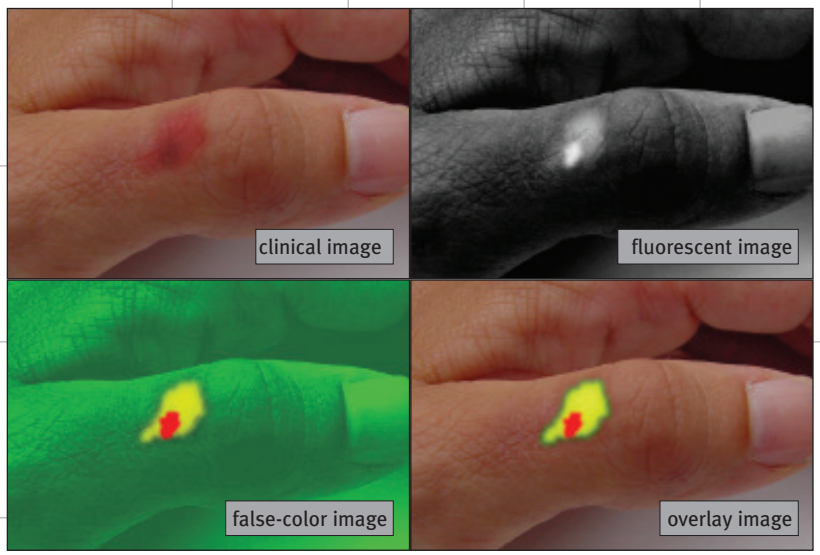
Photodynamic Diagnostics

The photodynamic diagnostics (PDD) is a modern and sensitive method for in-vivo-diagnostics of tumors. Similar to the method of photodynamic therapy (PDT) a photo sensitizer (i.e. 5-ALA) will be put on the scin area to be scanned. The photo sensitizer will be metabolized in several steps.

After saturation with tumor cells the developed photo sensitizer (Protoporphyrin IX/"PpIX") can be stimulated by irradiation of a certain wave length and intensity so that a fluorescece effect appears. With the aid of optical filters and digital procedures the emitted light can be converted into a significant display.

A Significant Addition For The Dermatological Practice

The examination with dynaSCAN is an important preparatory measure for the photodynamic therapy and other procedures. DynaSCAN renders possible the exact localization of the scin growth and the sharp outlining against the healthy skin.



Beside aiding maximum quality of the agreed therapy the photodynamic diagnostics and documentation is an impotant means for an effective communication with the patient. The therapy will be documented and treatment results will be verified impressively and objectively.

Advantages Of dynaSCAN

- Standardized images of maximum quality for optimum therapy supervision
- LED technology for low-maintenance operation and long durability
- special optics for homogenous exposure and maximum image quality
- pulsed microprocessor controlled exposure for maximum sensitizer stimulation and invariable display for therapy supervision
- mobile survey head
- false-color image for maximum defining of the tumor
- control of initial examination and therapy with one utensil

. suitable for any microDERM system with a microDERM camera

- invariable focussing via software controlled optics
- image storing for therapy supervision and processing
- operation in normal light conditions without darkening or additional protective measures

Technical specifications

- variable enlargement: 5x and 10x
- microprocessor controlled
- daylight LEDs for clinical images
- UV-LEDs for fluorescence stimulation
- PpIX filter for maximum presentation

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

ISO International Organization for Standardization

LGA InterCert

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