

IN VIVO IMAGING

VIVASCOPE

Instant Optical Biopsy

Reduce unnecessary biopsies with
confocal microscopy. **Improve patient care.**

VIVASCOPE

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Technical specifications are subject to change without notice. Revision Level: 03/2023

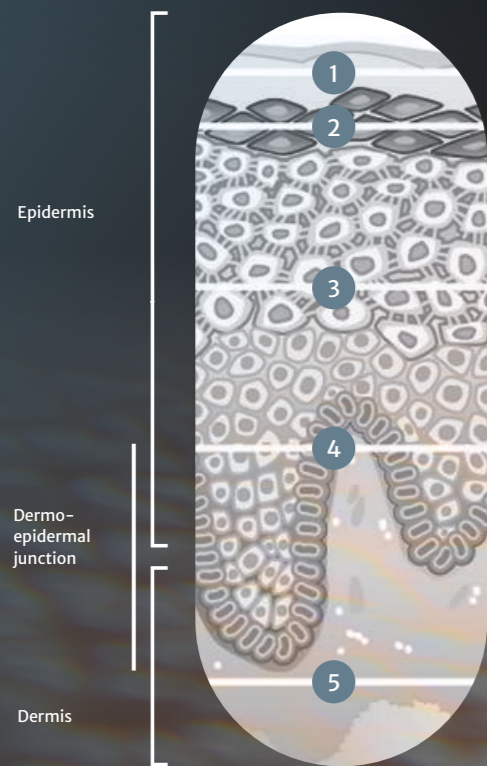
With the
VivaScope 1500/3000



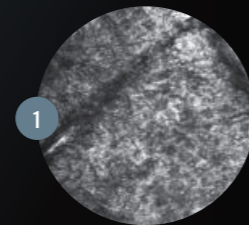
www.vivascope.com

Layer by layer. Look beneath the surface.

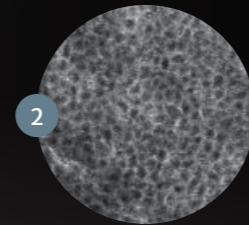
In vivo examinations with confocal laser scanning microscopy allow for an optical biopsy using a non-invasive procedure. Cellular microstructures of skin can thereby be depicted cell by cell in clearly defined horizontal “optical cross-sections” with a thickness of less than 5.0 μm .



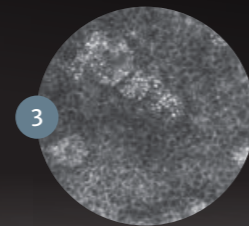
Confocal Images



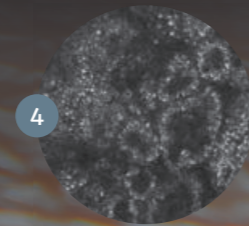
Stratum
corneum



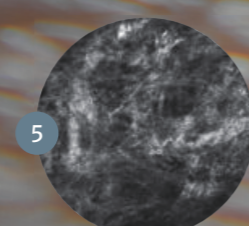
Stratum
granulosum



Stratum
spinosum



Stratum
basale



Stratum
dermale



LEARN MORE:

Instant
Optical
Biopsy

What you **see**:

Two lesions – can you identify the **melanoma**?

A



Surface view only

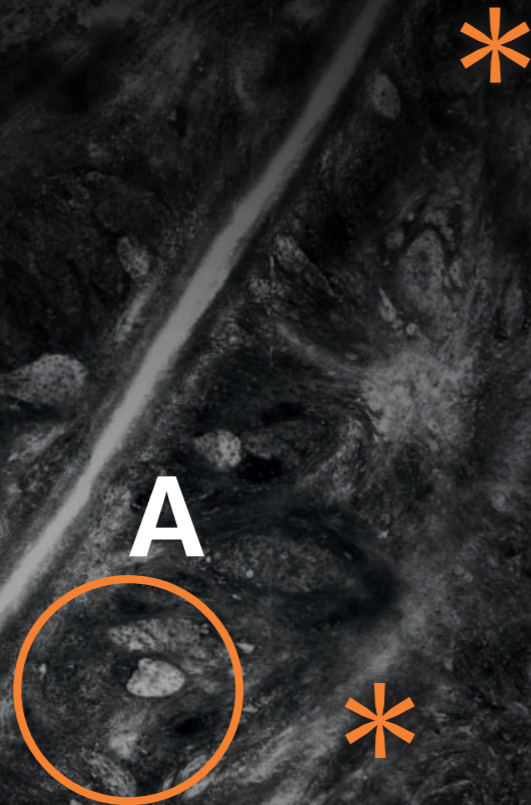
B



Surface view only

What you might be missing without using the VivaScope:

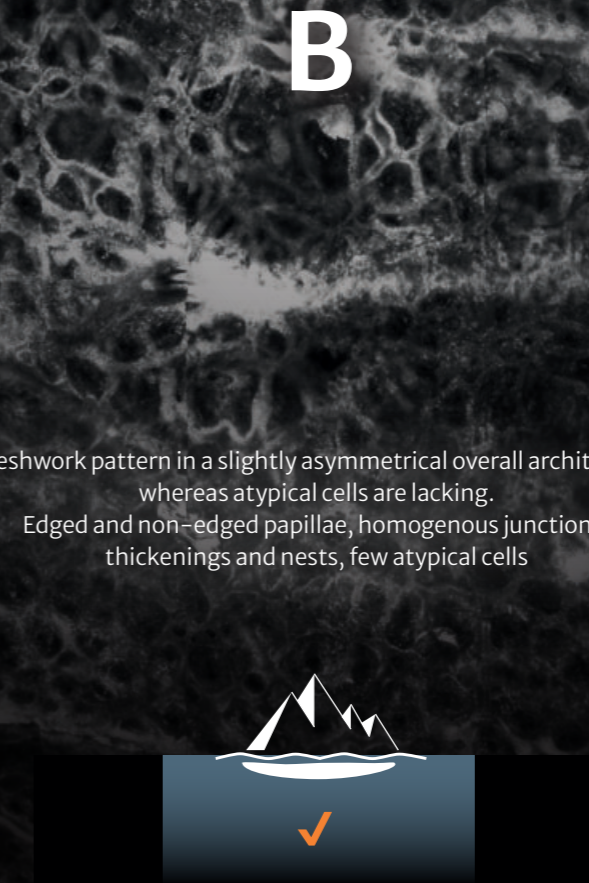
A) is a melanoma, B) is not.



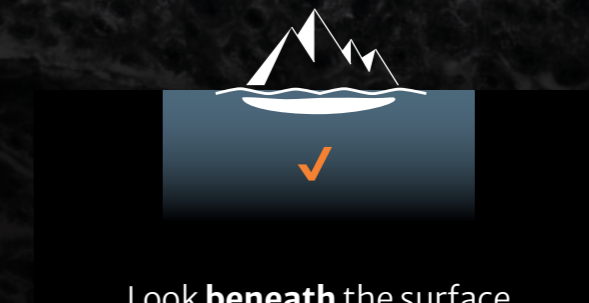
Disarrangement of the architectural layer with numerous pagetoid cells (**whole image**). Atypical meshwork pattern (*) constituted by irregularly spaced papillae. Moreover, enlarged interpapillary spaces and dendritic cells. Nonhomogeneous melanocytic dense and sparse nests with numerous atypical cells and fibrous collagen tracts (**orange circle**)



Look **beneath** the surface



Meshwork pattern in a slightly asymmetrical overall architecture whereas atypical cells are lacking. Edged and non-edged papillae, homogenous junctional thickenings and nests, few atypical cells



Look **beneath** the surface

— **Take fewer** biopsies.
Speed up diagnosis.
Improve patient care.



The VivaScope 1500/3000

Ready for
a change?

Major advantages:



Non-invasive

Examine the patient non-invasively, completely pain-free and without harming the skin.



Cellular Resolution

View cellular components of the individual tissue layers in high resolution.



Fast and reliable

Determine quickly whether and what type of skin cancer is present.



One software for an efficient workflow

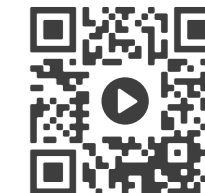
Benefit from the integrated user interface to control all devices of the imaging chain and to manage all patient data efficiently.



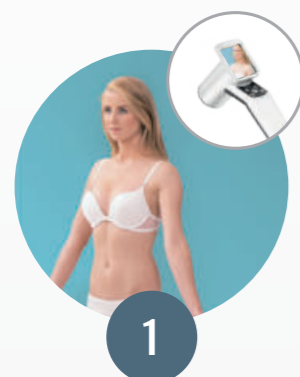
Expert support via Telemedicine

Via **VivaTeach**[®] you can get a second opinion for complicated cases from confocal experts with many years of experience via telemedicine.

A high-performing imaging system. All-in-one. For an efficient workflow.

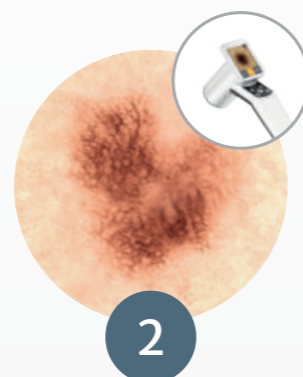


Watch the workflow.



1 Clinical Imaging

Start imaging by taking a clinical image(s) with the dermatoscopic camera VivaCam, a vital component of the VivaScope imaging system.



2 Dermoscopy

Imaging in various magnifications and highest quality for dermatoscopic assessment.



3 Confocal Imaging

Clear visualization of the morphology in resolution. Adding vital information of deeper skin layers to enable precise diagnoses.

The VivaScope is an **integrated solution** including **clinical, dermatoscopic** and **confocal imaging**. Our software covers and substantially simplifies the entire imaging chain and patient management.

Diagnose **without cutting and within minutes.**

Is it reliable,
precise and
evidence-based?

Yes.

More than **one thousand publications** speak for themselves.
View our online collection of publications on research topics in
the medical, cosmetic and pharmaceutical fields in scientific and
medical journals.



The VivaScope technologies have also
been **acknowledged** in various
medical guidelines.

1.000+
publications



43,4%

fewer biopsies needed



**based on a randomized
clinical study with 3.165 patients**

+ 1.000 publications. In various fields.

VivaScope® technology is well documented in the scientific and medical literature. With the number of publications related to VivaScope technology increasing each month, it can be a challenging to locate an appropriate reference for a specific application.



Visit our library

www.vivascope.de/publications



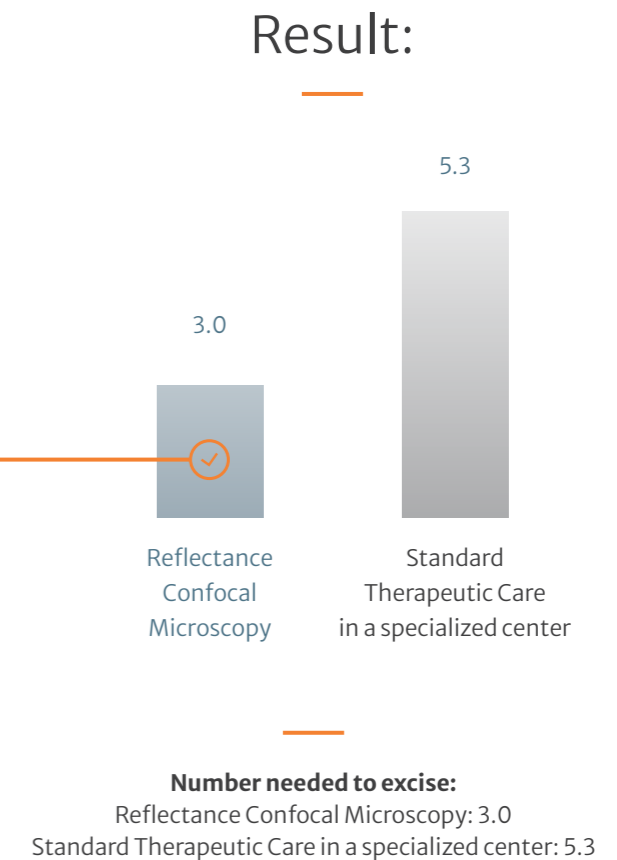
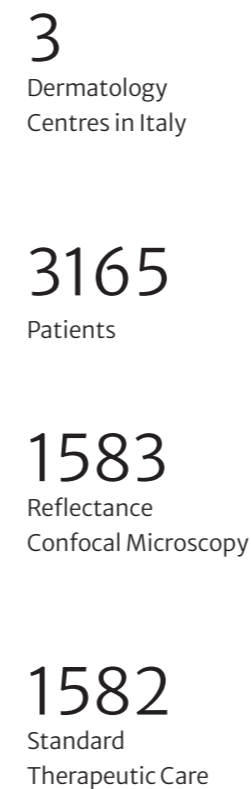
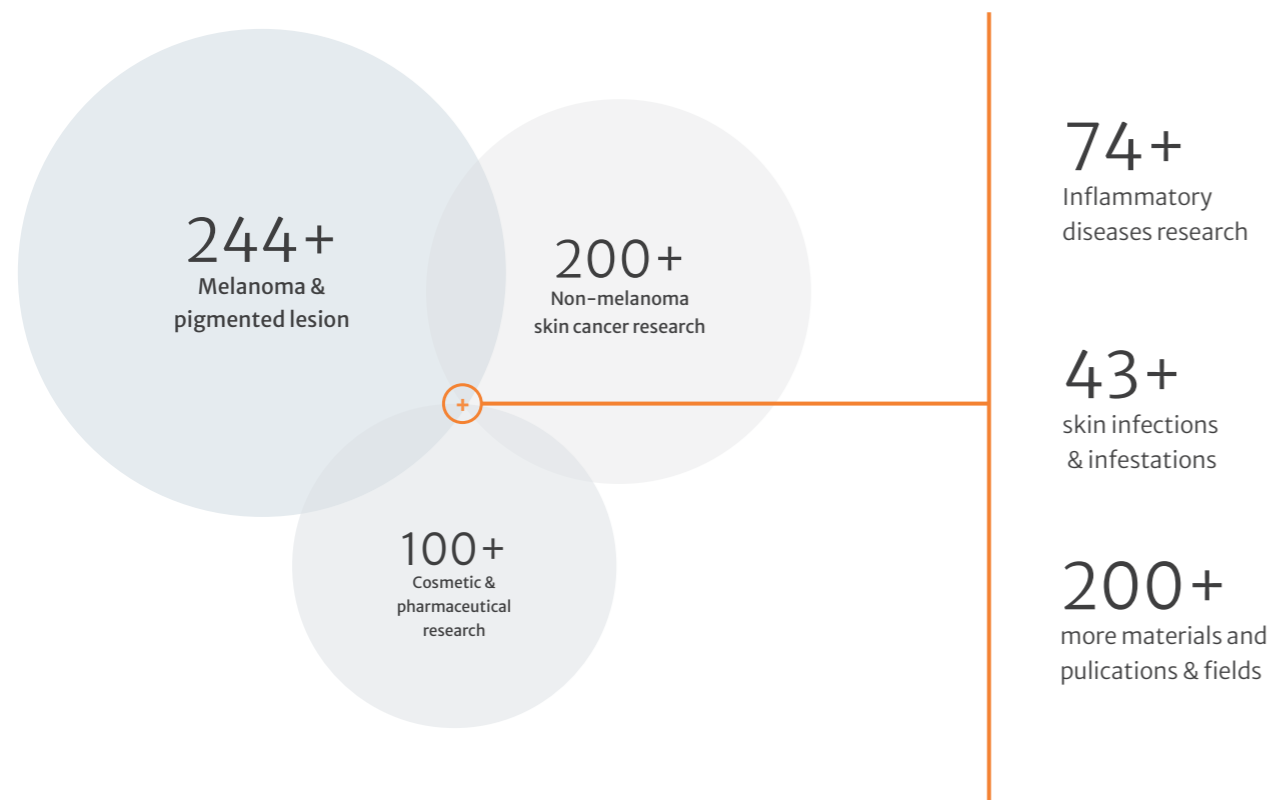
JAMA Dermatology

doi:10.1001/jamadermatol.2022.1570



Randomized clinical study: 43,4% less biopsy needed.

In this prospective study, for the first time, authors conducted an extensive clinical study with **3165 patients** to assess the effectiveness of the systematic integration of RCM, here VivaScope 1500, into the clinical and therapeutic diagnostic pathway of melanoma lesions. **The conclusion:** the adjunctive use of reflectance confocal microscopy for suspicious lesions was associated with a lower number needed to excise, reducing the number of lesions excised.



Instant Optical Biopsy

Our in vivo product line allows for a real-time and non-invasive **Instant Optical Biopsy** from the epidermis to the upper dermis. With the VivaScope confocal laser scanning microscopy, the cell morphology of the skin layers is displayed in high resolution.

Examining with the VivaScope means both sparing patients from painful and potentially unnecessary removal of tissue and long waiting time for the result of an examination. The examination opens a “window into the skin” without causing pain or damaging it.



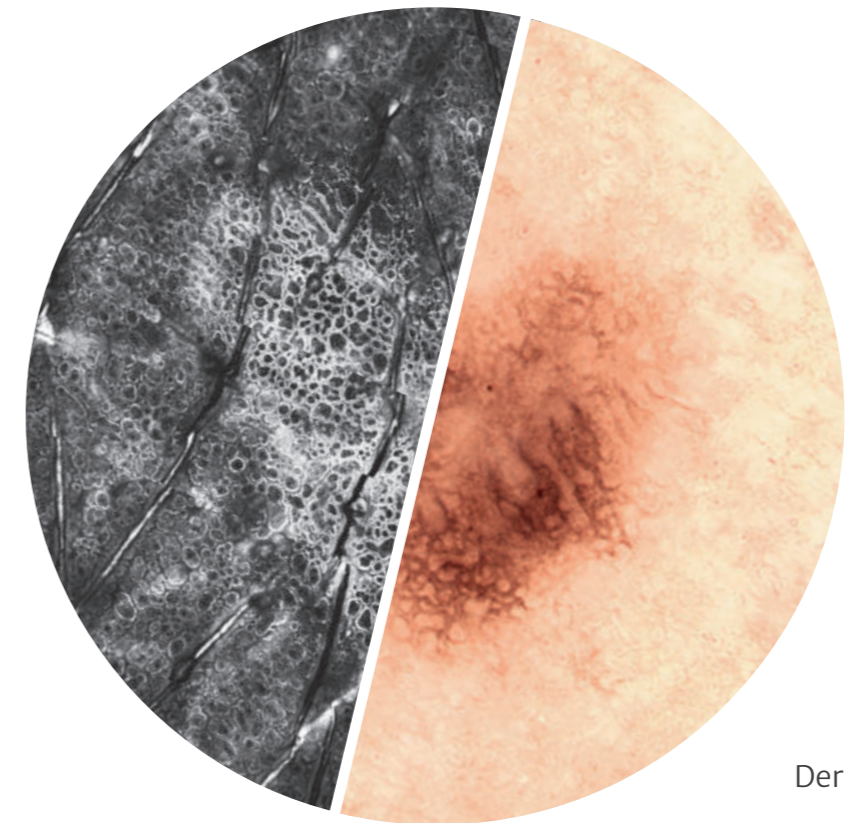
LEARN MORE:

**Instant Optical
Biopsy**

Look into the skin of your patients

Let's see more:

VivaScope
1500/3000

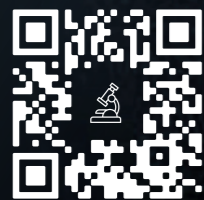


Dermatoscopy

Multiple applications

Mentioned in important guidelines

- S3 Guideline on diagnosis, therapy, and follow-up of melanoma (Germany)
- S3 Guideline on prevention of skin cancer (Germany)
- S-Guideline on Actinic keratosis and squamous cell carcinoma of the skin (Germany)
- S2k Guideline on Basal cell carcinoma of the skin (Germany)



LEARN MORE:

Multiple applications

Melanocytic lesions

Non-melanocytic lesions

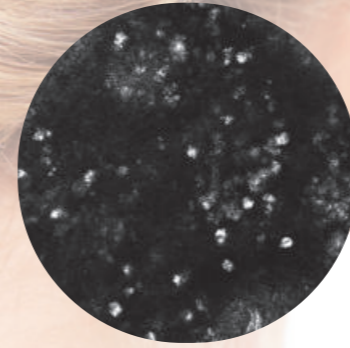
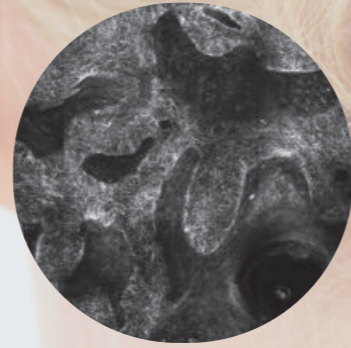
Preoperative margin control

Inflammatory diseases & skin infections

Cosmetic research

Non-Melanocytic Lesions

Basal Cell Carcinoma
Actinic Keratosis
Squamous Cell Carcinoma
more

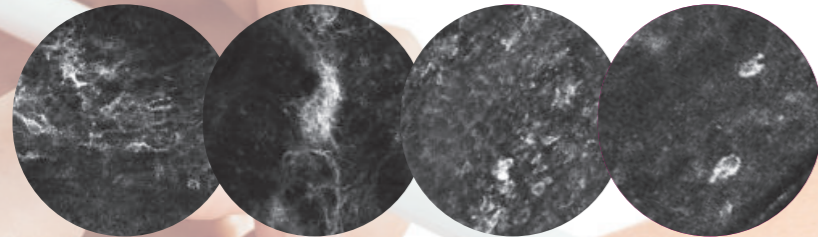


Inflammatory Diseases

Vitiligo
Psoriasis
Lupus
Allergic / Irritant Contact Dermatitis
more

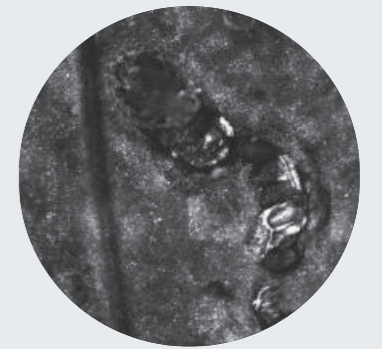
Melanocytic Lesions

Maligna Melanoma
Lentigo Maligna Melanoma
Amelanotic & Vulvar Melanoma
Nevus
more



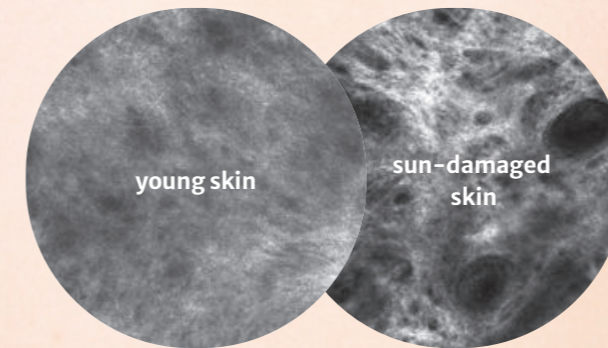
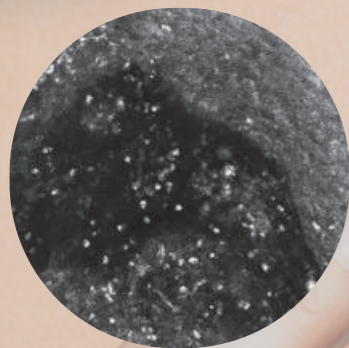
Skin Infections

Scabies
Demodex Mites
Tinea
more



Preoperative Margin Control

Facial Lesions
BCC
more



Cosmetic Research

Aging
Hair & Adnexia
Pigmentation / Melasma
more

Make it your VivaScope.
For your everyday work.

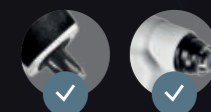


Choose your system:



VS Combo System

Contains:

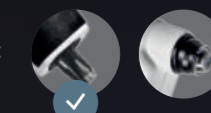


VS 1500 VS 3000



VS 1500 System

Contains:



VS 1500



VS 3000 System

Contains:



VS 3000

recommended for
advanced users only

All systems can be provided with the dermatoscopic device VivaCam (D200)



Overview of the different components



VivaCam (D200)

The **VivaCam** is a **digital dermatoscope** for clinical and dermatoscopic examination. With an image resolution superior to Full HD, the VivaCam is an ideal tool for skin assessment of skin. Reliable image quality and uniformity enable follow-ups over the years. **In combination with the VivaScope 1500**, the VivaCam generates a dermatoscopic overview for navigation during the confocal examination, thus providing detailed information for a comprehensive and reliable diagnosis.



Features:

- ✓ Standardized brilliant image quality in dermatoscopy
- ✓ High precision optics: 15x - 200x magnification
- ✓ Dermatoscopic and clinical images in one device
- ✓ Ergonomic camera with 2.8" touch display

VivaScope 1500

The **VivaScope 1500** offers physicians, clinicians, as well as medical and cosmetic researchers the possibility to examine skin non-invasively in vivo, at cellular resolution and in real-time. The VivaScope 1500 provides a non-invasive view into the epidermis all the way down to the superficial dermis. A near-infrared laser (830 nm) penetrates the superficial layers and is reflected by components of the skin.



Features:

- ✓ Highly suitable for investigating lesions on the body
- ✓ Motorized stage movement ensures complete lesion imaging
- ✓ Easy and intuitive handling
- ✓ Simple and fast examination allows for delegating the image acquisition to clinical staff.

Application:

- ✓ Excellent comparability of images to examine treatment over time (cosmetic and medical research)
- ✓ Ideal for standardized routine examination of
 1. melanocytic and non-melanocytic lesions on the body
 2. non-melanocytic lesions on the body

VivaScope 3000

The **VivaScope 3000** is highly suitable for investigating facial lesions, difficult-to-reach skin locations or large skin areas affected, for example, by actinic keratosis or lentigo maligna.

Since the examination reveals cellular information of the tissue, enabling the spread of lentigo maligna can be determined very precisely. Pre-surgical mapping of lentigo maligna using the VivaScope 3000 significantly optimizes treatment and improves patient care management.



Features:

- ✓ Highly suitable for difficult to reach areas (facial lesions)
- ✓ Perfect for investigation of large skin areas
- ✓ Compact design and low weight
- ✓ For advanced users

Application:

- ✓ Diagnosis / confirmation of BCC and lesions on the face
- ✓ Margin detection for lentigo maligna
- ✓ Rapid screening of equivocal Lesions
- ✓ Inflammatory skin diseases
- ✓ Biopsy-site selection on large lesions

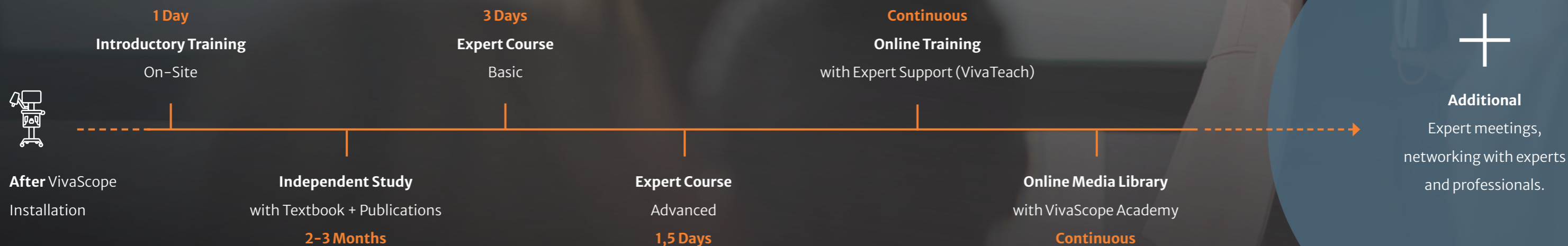
Our professional training for you. So you become the best dermatologist.

Service and advice right from the start. The training and education program offered by VivaScope allows users to learn quickly how to operate a VivaScope. An ingenious and comprehensive training program for confocal laser scanning microscopy creates optimal conditions for the profound and competent evaluation of confocal images.



LEARN MORE:

Seminars & Training



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