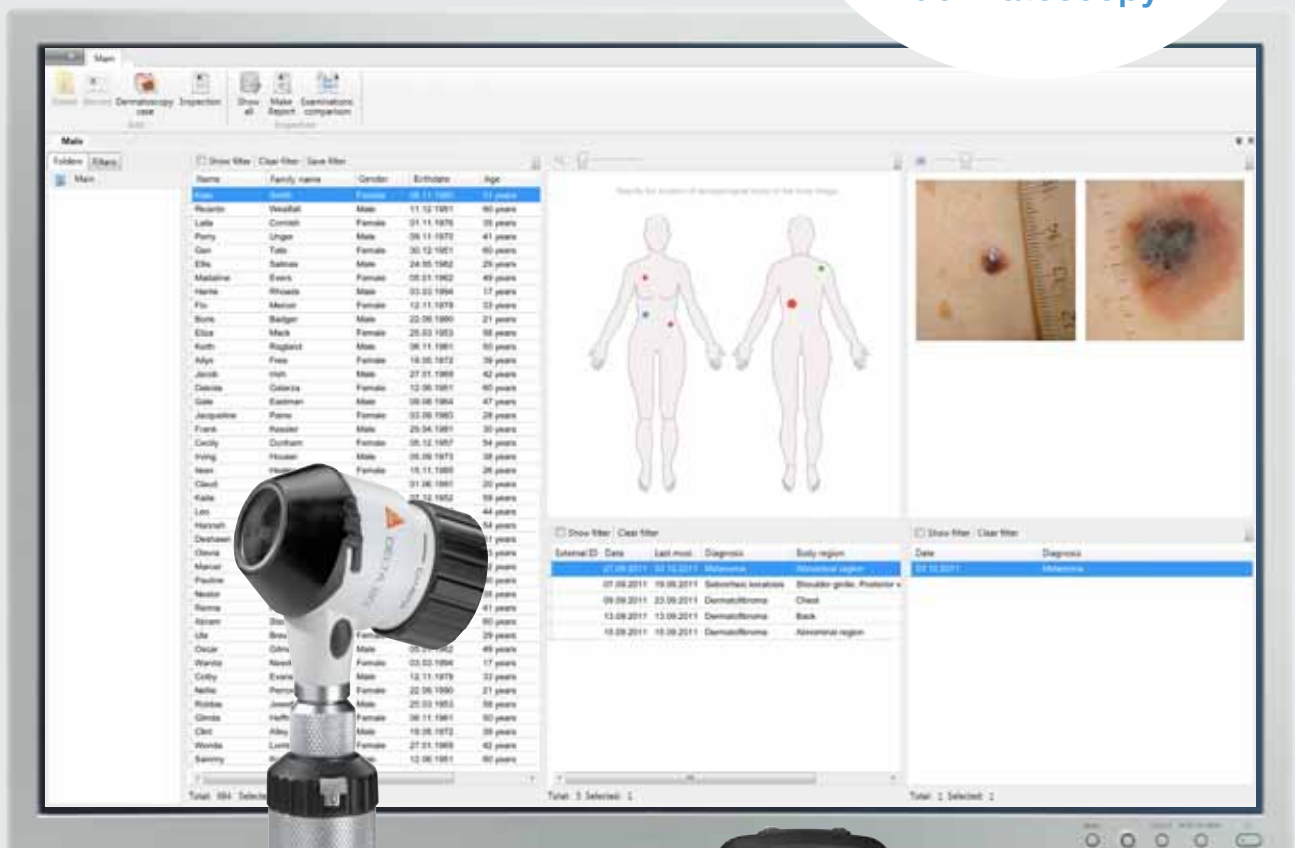


# Vision Derma



Digital solutions for analysis and examination, report generation and management of dermatoscopy studies

digital dermatoscopy



# New standards in the daily work

## Applications



medicine



dermatology



oncology



cosmetology



aesthetic surgery



trichology



remote consultations



specialist training



telemedicine



## Dermatoscopy

Dermatoscopy is an examination of skin lesions with magnification up to 10x using the oil layer between the object of study and a dermatoscope.

Dermatoscopy is a new advanced noninvasive method of skin melanoma diagnostics that allows early detection and helps reduce the number of unreasonable operations on the benign pigmented lesions.

## Digital dermatoscopy

Digital dermatoscopy is an environment to manage and interpret data from dermatoscopy examinations created using a dermatoscope, a camera, software, and a computer. Digital dermatoscopy allows you to attain qualitative and quantitative results, which are either impossible to receive by other means or cost and time consuming.

# Vision solutions



## Vision digital solutions

Vision digital solution is a workplace to obtain, manage and examine dermatoscopy studies to get a consistent result of the patient examination and to give correct diagnosis.

Specialists, that are looking for professional development and recognize new digital technologies, are presented with unlimited resources in their field.

## Vision Derma



Solution for working with digital dermatoscopy studies and examinations as well as generation of standardized reports. Dermatoscopy score calculation. Built-in editable reference guide contains basic dermatoscopy algorithms: ABCD rule, Kittler algorithm, etc.

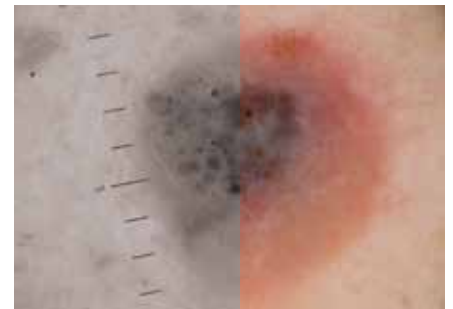
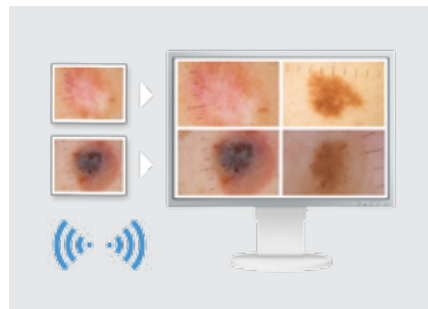
## Vision Derma Pro



The professional solution for analysis of digital dermatoscopy studies and examinations as well as for generation of standardized reports. Calculation and classification of measured elements. Tools to create marks and comments. Dermatoscopy score calculation. Built-in editable reference guide contains basic dermatoscopy algorithms: ABCD rule, Kittler algorithm, etc.



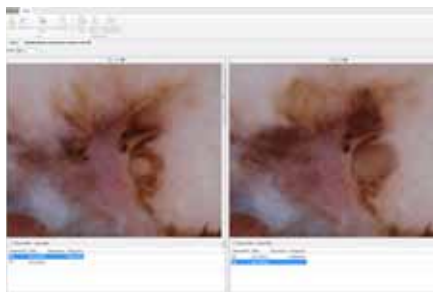
# Main benefits



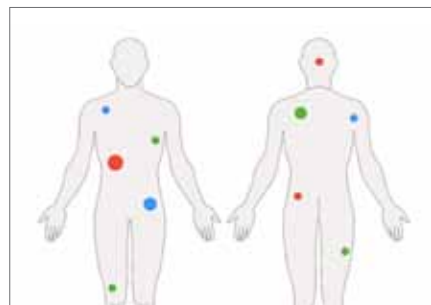
1 Create digital dermatoscopy studies

2 Automatic wireless transfer of dermatoscopy images

3 All the necessary tools for digital image enhancement



4 Quick assessment of examination dynamics over a period of time



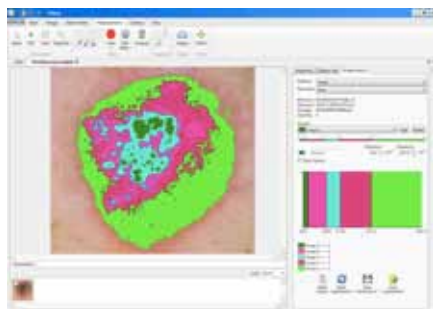
5 Schematic display of dermatoscopy studies and diagnosis indication



6 Various algorithms and diagnostics methods: ABCD, Kittler, etc.



7 Object selection for measurement\*



8 Analysis and classification of elements\*



9 Marks and comments directly on the digital image\*



10 Atlas of dermoscopy criteria



11 Report generation according to individual requirements



12 Mobile version with a laptop



13 Easy access to examination results and digital dermoscopy studies



14 Telemedicine and remote consultations with colleagues



15 Education for specialists: scientists, doctors, lab technicians and students

\* only with Vision Derma Pro



## Workflow optimization

1



### Quick and easy patient registration

Creating and managing patient records became much easier. All patient data are shown in a chart form and can individually be adjusted by selecting the necessary fields: ID, name, surname, date of birth, age, etc.

2

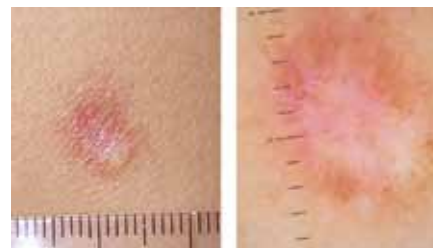


### Dermatoscopy studies are displayed on the human body diagram

For every patient, dermatoscopy study is created and is displayed in the database table as well as on the human body diagram.

Dermatoscopy studies are marked with a certain color depending on the diagnosis and is displayed on the patient's body diagram.

3



### Examinations are conveniently organized in digital albums and records according to dermatoscopy criteria

Digital album is a modern approach to create, edit, manage and classify digital dermatoscopy images.

To each stored album you can add marks, comments and dermatoscopy criteria.

4



### Dermatoscopy examination

Choice of various algorithms and diagnostics methods, ABCD, Kittler, etc.

Depending on the selected algorithm, the system will calculate the dermatoscopy score and will propose a diagnose according to the criteria selected by you.

Tools to create marks and comments directly on the dermatoscopy image. Object selection for analysis, calculation and classification of elements.

5



### Report generation in accordance with modern requirements

Adjustable template allows specialists to create reports of the dermatoscopy examination without spending valuable time on routine paperwork.

Saved reports are available for search, preview, edit, print, send by e-mail and export to popular formats: PDF, DOC, XLS, JPEG, GIF, PNG and many others.

6



### Benefits of Internet connection

Connect several workplaces to a remote server and hold video conferences with colleagues from around the world, exchange digital dermatoscopy studies, examination results and reports, publish your research on specialized social networks.

# Patients, dermatoscopy studies and examinations



Clinical image



Dermatoscopy



Histology sample

Different types of images can be stored in the dermatoscopy examination album

The screenshot shows the VISION DERMA software interface. On the left, a patient list table is visible. In the center, two body diagrams show marked lesions. On the right, a detailed view of a dermatoscopy study is shown, including clinical and dermatoscopy images. A legend at the bottom right explains the color coding for different diagnoses.

Name	Family name	Gender	Birthdate	Age
Klein	Olson	Female	08.11.1997	21 years
Ricardo	Westfall	Male	11.12.1981	30 years
Laine	Comash	Female	01.11.1979	35 years
Perry	Unger	Male	09.11.1973	41 years
Geri	Tate	Female	06.12.1971	40 years
Ellis	Summit	Male	24.05.1962	49 years
Madalene	Evans	Female	05.01.1962	49 years
Harris	Rhoads	Male	03.03.1994	17 years
Flz	Moscor	Female	12.11.1979	33 years
Burns	Badger	Male	22.09.1990	21 years
Eliza	Mack	Female	25.03.1953	58 years
Kath	Rogland	Male	06.11.1961	50 years
Allyn	Free	Female	19.05.1972	39 years
Jacob	Irish	Male	27.01.1989	42 years
Dakota	Gutierrez	Female	12.06.1951	60 years
Gale	Eskman	Male	09.08.1964	47 years
Jacqueline	Paine	Female	03.09.1983	28 years
Frank	Kessler	Male	29.04.1981	30 years
Carily	Durham	Female	05.12.1957	54 years
Ivring	Houser	Male	05.09.1973	38 years
Been	Healey	Female	15.11.1985	26 years
Claud	Anderson	Male	01.06.1991	20 years
Katia	Nickel	Female	07.12.1952	59 years
Lani	James	Male	23.12.1967	44 years
Hannah	Cobbell	Female	14.10.1957	54 years
Debraann	Meyer	Male	01.10.1950	61 years
Oniva	Lam	Female	25.03.1988	23 years
Marcel	York	Male	13.11.1979	32 years
Pauline	Delvalle	Female	11.12.1951	60 years
Nestor	Osburn	Male	01.11.1976	35 years
Renna	Falls	Female	09.11.1975	41 years
Alyson	Stoney	Male	05.12.1951	60 years
Ulla	Brown	Female	24.05.1962	49 years
Charal	Gibson	Male	08.01.1962	49 years
Wendell	Needham	Female	03.03.1994	17 years
Colby	Evans	Male	12.11.1979	33 years
Nelle	Perron	Female	22.09.1990	21 years
Robbie	Jewett	Male	25.03.1953	58 years
Gloria	Herber	Female	06.11.1961	50 years
Clay	Alley	Male	19.05.1972	39 years
Wonda	Lombardi	Female	27.01.1969	42 years
Sammy	Koontz	Male	12.06.1951	60 years

Entered	Date	Last mod.	Diagnosis	Body region	Date	Diagnosis
	27.06.2011	05.10.2011	Melanoma	Abnormal region	05.10.2011	Melanoma
	07.09.2011	19.09.2011	Seborrheic keratosis	Shoulder girdle, Posterior		
	09.09.2011	23.09.2011	Dermatofibroma	Chest		
	13.09.2011	13.09.2011	Dermatofibroma	Back		
	15.09.2011	15.09.2011	Dermatofibroma	Abnormal region		

Name	Colour
Melanoma	Blue
Seborrheic keratosis	Green
Dermatofibroma	Red
Acral nevus	Yellow
Basal cell carcinoma	Purple

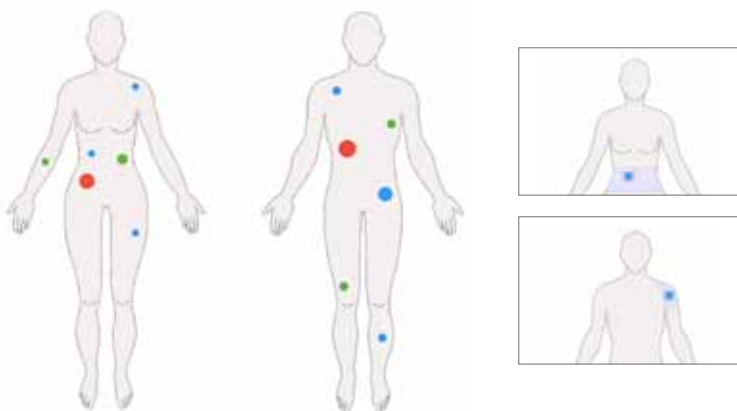
Every dermatoscopy study is marked in color, depending on the diagnosis

## 1 Patient information

All information about patients is presented in tabular form and can be adjusted by choosing the necessary fields: ID, name, surname, date of birth, age, etc.

Advanced data management tools, like folders, filters and sorting, will help you not to waste time on searching.

## 2 Human body diagram



When a dermatology study is added, it is linked to a human body diagram considering patient's sex and body area: chest, back, face area, etc. Size of a dermatology study on the body diagram can be adjusted.

## 3 Dermatoscopy studies

All dermatology studies are presented in tabular form with the fields: ID, date, date of the last modification, name, diagnosis, body part. Synchronous selection of dermatology study in the table and the human body diagram.

## 4 Examination preview

Thumbnail gallery for quick preview of a dermatology examination images.

## 5 Dermatoscopy examinations

All dermatology examinations are presented in tabular form, that includes: ID, date, description and diagnosis. Convenient sorting and filtering to find examinations. Examination comparison function.



*I work with information about patients, dermatology studies, examinations, diagnosis and reports in a mutual digital environment*



# Wireless image transfer



*I take a picture of a lesion using a digital camera and a dermatoscope, and photos are automatically wirelessly transferred to Vision Derma software. What's most important is that I do not waste time on constant plugging and unplugging of the camera from the computer*



## Automatic wireless transfer of dermatoscopy images



Automatic wireless transfer of digital dermatoscopy images from a camera to a digital examination album in just one button click.



The images are transmitted using Wi-Fi high-speed wireless data transfer protocol and a special accessory for digital cameras.

The procedure is very simple and requires no special skill. Just take a picture of a lesion, and the image will automatically be imported into the digital album of Vision Derma software. Forget the inconvenience of cables and wires, use the advanced technology of wireless data transfer.

## Image editing tools

### Crop

Select a fragment of an image and save it as a separate digital sample.

### Scale

Reduce the image size for easier online operations.

### Rotate

To make examination easier, turn your microscopic image at a certain angle.

### Color

Select a color from a preset palette, use the 'Pipette' tool to select it from the image directly or set precise RGB values with alpha blending (transparency).

### Color adjustment

To ensure the best quality of your digital image, use color adjustment tools such as brightness, contrast and saturation settings.

### Edit

You can easily remove minor defects if they hamper your work.

### Export/import

To exchange samples with your colleagues, it is easy to import and export images from your database.

## Ergonomic image editing tools facilitate fast enhancement of a dermatology study image

One click on a 'Color settings' button to correct an image and get a superior quality digital image.



hue/saturation



brightness/contrast



sharpness



color balance

# Digital dermatoscopy study



## HEINE DELTA 20 dermatoscope

DELTA 20 dermatoscope with LED illumination is designed for dermatoscopy examination of pigmented skin lesions and early diagnosis of malignant melanoma. The differential diagnosis of initial malignant melanoma and other pathologies is made easier and more accurate with DELTA20.



## Digital camera

Improve the quality of your digital image to the level of professional digital SLR cameras.

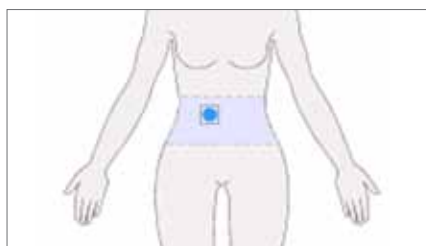
It is recommended to use Canon or Nikon cameras.

## Creating digital dermatoscopy study

### Digital dermatoscopy study is a set of examinations with localization on the human body



Identify the location of a dermatoscopy study.



Set the digital dermatoscopy study on the human body diagram taking the area into account.



Proceed with the dermatoscopy examination. Take a photo of a lesion using a digital camera and a dermatoscope.

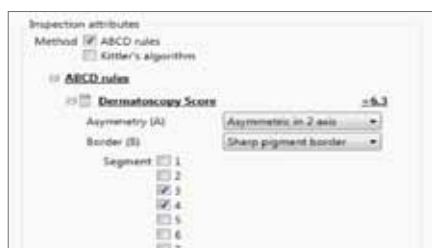
# Examination

## Examination includes a digital album and a set of dermatoscopy criteria

After the dermatoscopy study is created, proceed with examination



Use a dermatoscope and a professional digital camera to take digital images of a lesion: macroimage (clinical image) and microimage (dermatoscopy).



Proceed examination by adding the necessary dermatoscopy images to the digital album, entering dermatoscopy criteria into the database and making the diagnosis.



The system saves all data automatically ensuring the reliability of examinations.



*In the examination, I indicate all the necessary information, such as date, study algorithm, diagnosis, description and recommendations to be included in the report*



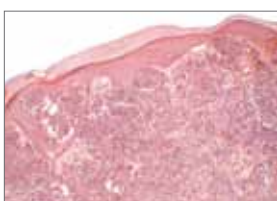
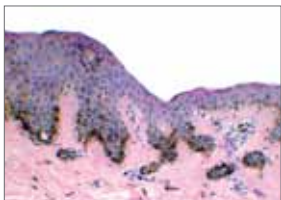
# Diagnosis

## Vision Derma Pro+

**Histological examination for a more detailed study**



Connect a microscope with a Vision digital camera to see a microscopic sample right in your digital album. Save the image and add it to your report.



## Dermatoscopy examination

**Choose an algorithm and diagnostics method**

Inspection attributes

Method  ABCD rules  
 Kittler's algorithm

**ABCD rules**

Dermatoscopy Score = 6.3

Asymmetry (A)  Asymmetric in 2 axis

Border (B)  Sharp pigment border

Segment  1  
 2  
 3  
 4  
 5  
 6  
 7  
 8

Color (C)  White  
 Red  
 Light brown  
 Dark brown  
 Blue-grey  
 Black  
 Other

Dermatoscopy structures  Pigment network  
 Structureless areas

The reference guide shows the most popular dermatoscopy algorithms: ABCD rule, Kittler algorithm, etc.

When using the ABCD rule the system calculates the dermatoscopy score automatically according to dermatoscopy criteria chosen by you.

When using the Kittler algorithm, set the dermatoscopy criteria, and the system will automatically propose the diagnosis.

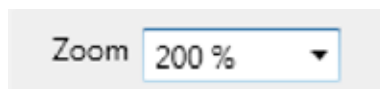
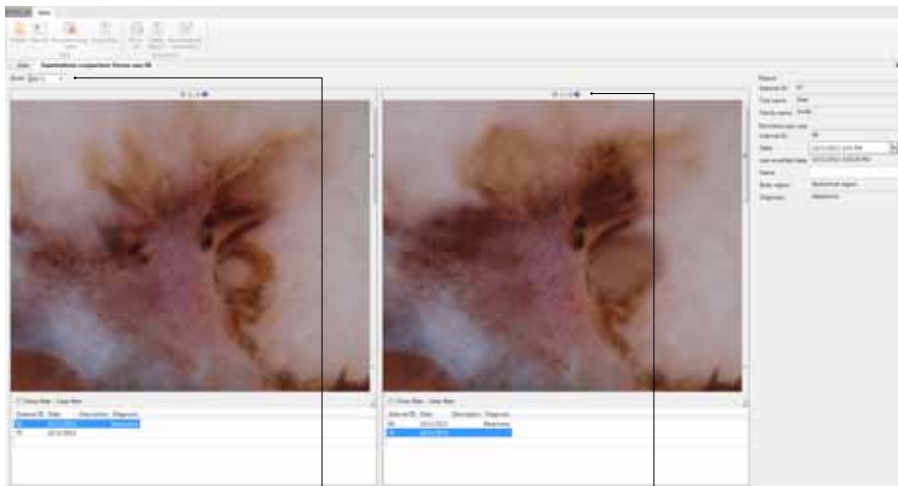
Color (C)  White  
 Red  
 Light brown  
 Dark brown  
 Blue-grey  
 Black  
 Other

Color description

If necessary, indicate your own criteria description

## Examination comparison

### Assessment of change in a dermatoscopy study at different examinations



A more detailed study of an examination object



Image comparison taken at different times

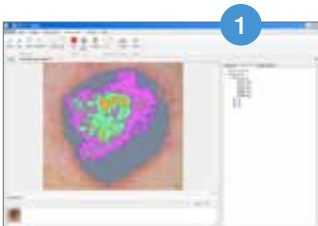


*I now have a tool to assess changes in lesions considering recommendations I gave to a patient over a period of time*

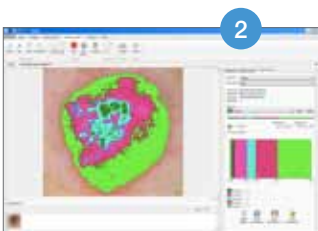


# Image analysis

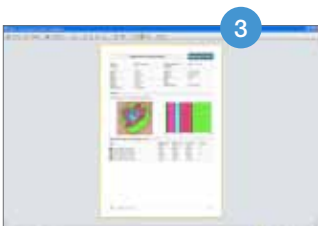
## Image analysis procedure



Select objects for analysis



Analyze the distribution



Print out your report

## Simplified analysis procedure

### Preset methods of analysis

- volume fraction
- particle measurement
- count and classification
- phase analysis

### Volume fraction

Calculate the ratio (%) of the volume fraction to the area of the selected image fragment.

### Particle measurement

Measure linear and optical parameters of particles automatically or manually.

### Count and classification

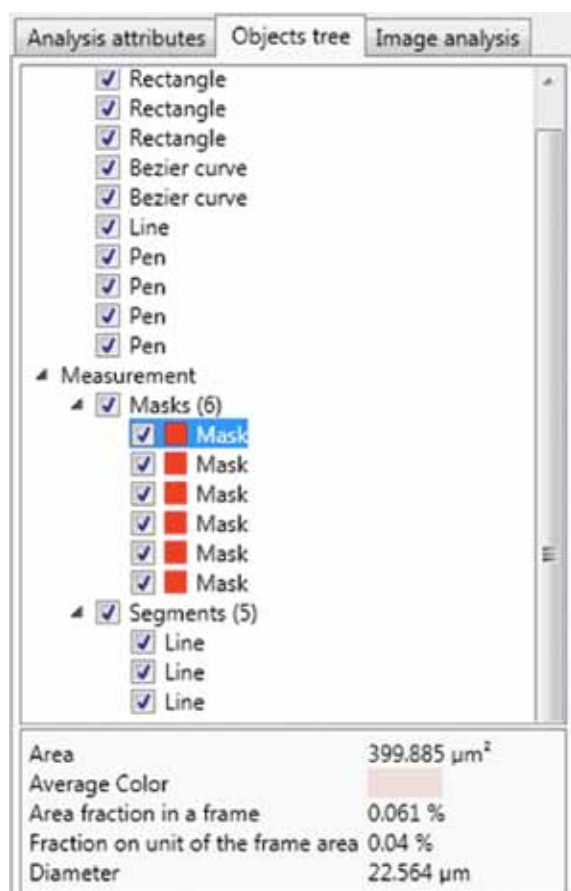
Manual or automatic object identification, their count and classification based on the criteria set by the user.

### Phase analysis

Segmentation of objects in a histogram. Analysis of distribution in an image by color or one of the color channels (RGB).

## Object tree

All analysis elements are at hand



If there is any information you don't need at the moment, for example, marks and comments that interfere with your work, just deselect the checkbox, and they will be hidden. Select the checkbox to view your comments again.

Object tree is an organized list that contains all analyzed objects.

Each element can be modified at any time directly on the digital image or in the object tree.

Select an object in the object tree and the system will display all information regarding its measurement parameters.



*I know exactly how much the area of a lesion has changed and therefore can accurately give a diagnosis to a dermatoscopy study*



## Selection tools



### Region (Mask)

In order to measure regions, select it using manual or automatic tools.



### Segments

To measure the length of a segment of any complexity use one of three tools: Line, Bezier Curve or Pencil.



### Angles

Set three points of an angle, and the system will calculate it for you in degrees and radians.

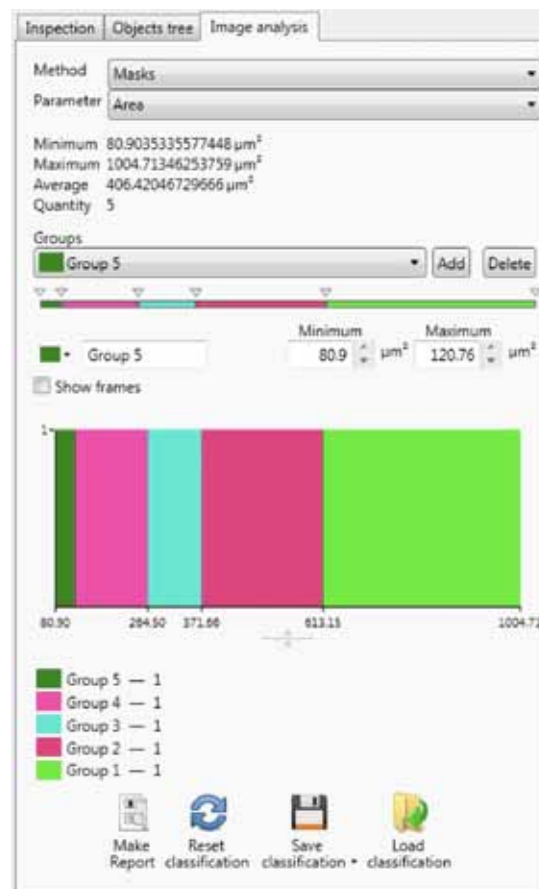


### Points

Mark an object of analysis with points and the system will calculate their number and color characteristics.

## Classification and object analysis

### Flexible and powerful classification adapted to required analysis tasks



Classify analyzed objects using required criteria to generate a report.

Select a required number of groups and define a measurement range for each one of them:

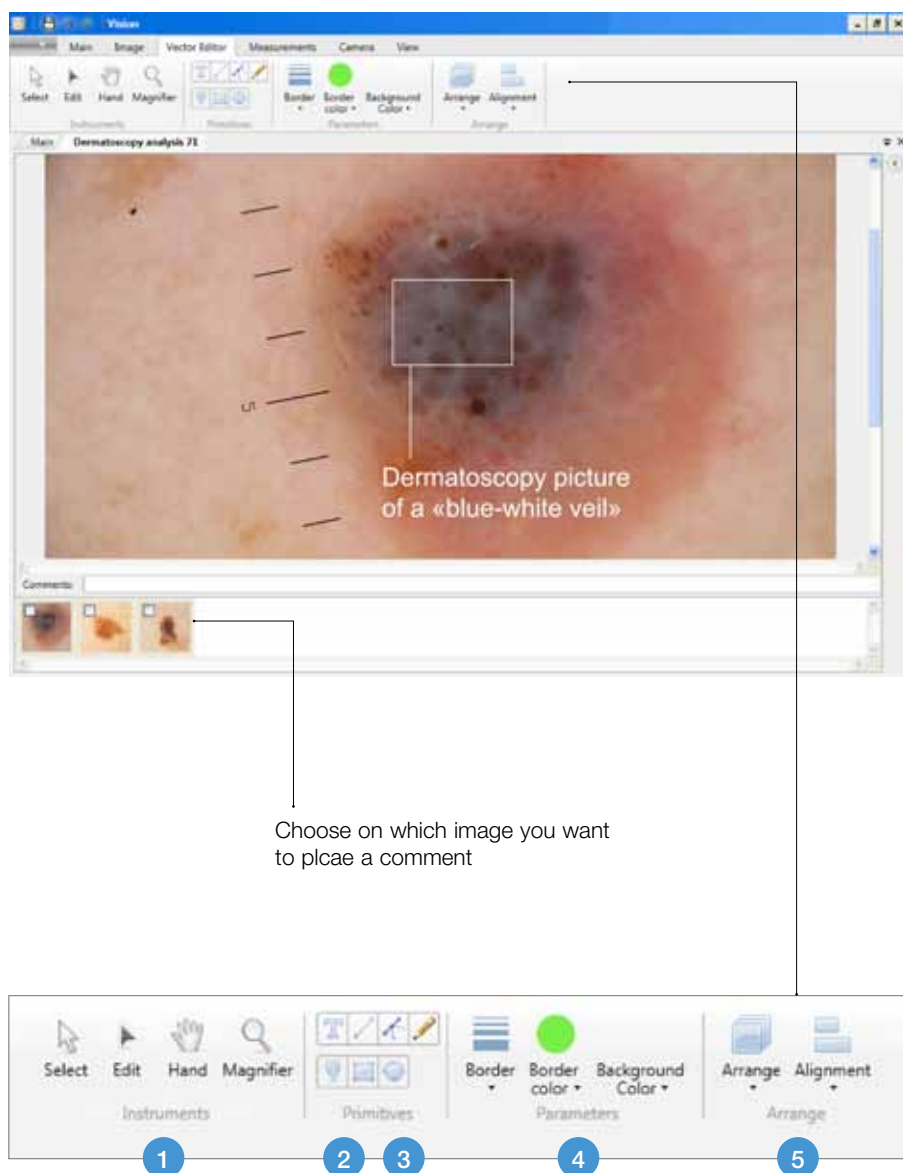
- size of selected objects
- location
- optical parameters
- quantity

The system will automatically measure and display the results visually in a histogram form.

You can save frequently used methods to make them easily accessible in the future. Methods can also be downloaded from a computer hard drive.

## Comments and marks

You can add comments and marks to every digital album



## Tools to create marks and comments

### 1 Select and edit

Move, rotate and edit your comments, marks and other objects.

### 2 Graphic tools

Draw the necessary elements on the image using the line tool, Bezier curve, pencil, rectangle marker and oval.

### 3 Text comments

Create comments right on the digital image.

### 4 Object parameters

Set the required outline thickness and color, and filling of the object.

### 5 Order and group

Move objects to the foreground or background. Center or align your marks and comments.

# Atlas, templates, dermatoscopy criteria and diagnosis



*Dermatoscopy atlas helps me with difficult cases in my everyday work. I open the atlas where I have collected the representative studies for certain criteria and compare it with a new lesion*



## Atlas

Click on the “hint” button and you will see the images in the atlas, corresponding to the selected dermatoscopy criteria. Images can be added to the atlas by simply dragging and dropping them on the dermatoscopy criteria.



## Templates

Ready-made text templates for reports are indispensable in routine work.

Configurable set of most used text fields. After setting your preferences, you can use the ready-made report templates in your daily routine. The template is shown automatically when you start writing your conclusion in the text field.

Recommendations	Templates
c	
Check-up after 1 year	
Consult with oncological surgeon	

## Dermatoscopy criteria



Add your diagnosis criteria for accurate diagnosing.

Flexible and adjustable reference guide helps to create algorithm of a dermatoscopy analysis, meeting your personal requirements.

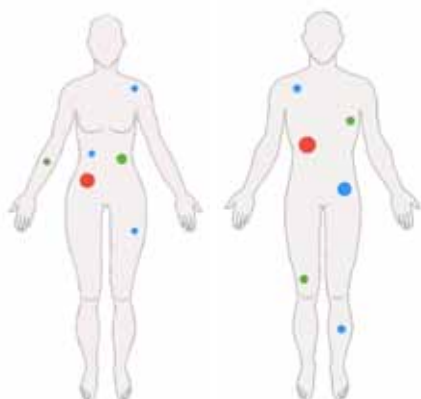
Add the necessary study fields (conditions, text, numbers, lists, etc.), they will be shown in the report. For fields, dermatoscopy coefficients and scores are available for automatic dermatoscopy score calculation.



*The diagnosis history makes it possible to trace when and during which examination a diagnosis was placed*



## Diagnosis



Configurable diagnosis reference guide will meet your personnel requirements. Set your preferences only once and use the ready-made report templates in your daily routine.

A certain color is allocated to each dermatoscopy study depending on the diagnosis.

## Dermatoscopy study

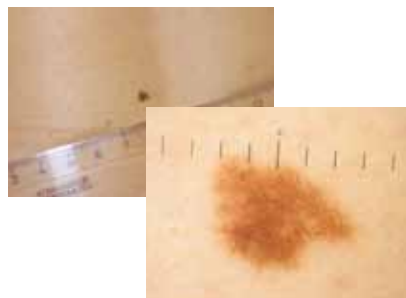
- 1 Choice of various algorithms and diagnostic methods
- 2 Common dermatoscopy algorithms: ABCD rule, Kittler, etc
- 3 Automatic calculation of dermatoscopy index using the ABCD algorithm
- 4 Kittler algorithm using structures with automatic diagnosis
- 5 Possibility to describe structures and criteria in your own words
- 6 Database of individual diagnosis
- 7 Indication (color and size) of diagnosis on human diagram
- 8 Generation of atlas of an interesting study for every dermatoscopy criteria

## Example of a study

### Differential diagnostic of a benign melanocytic skin lesion (acral nevus)



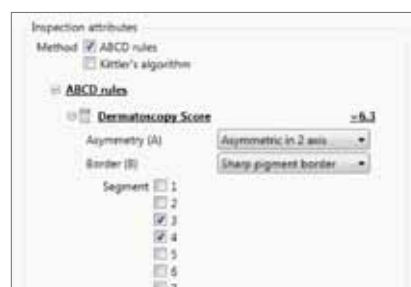
- 1 Add a new patient record and create a digital dermatoscopy study for him/her.



- 2 Use a dermatoscope and a professional digital camera to make a digital image of a lesion: macroimage (clinical image) and microimage (dermatoscopy).



- 3 Add acquired images to the digital examination album.



- 4 Make an analysis according to the dermatoscopy criteria set by the ABCD rule. The dermatoscopy score is calculated automatically.



- 5 Generate and print out your analysis report.

# Report generation

## The report is based on a dermatoscopy examination

### You decide how your report will look like

You can take into account different template requirements (form and content). Add and delete dermatoscopy criteria, patient information fields and images.

If you need a special report template, we can design it for you based on your requirements and in your language.

### Report includes:

- 1 Report name
- 2 Clinic logo
- 3 Study information
- 4 Patient information
- 5 Date/time and number of examinations
- 6 Institution information
- 7 Comments
- 8 Dermatoscopy study information
- 9 Examination results
  - dermatoscopy criteria
  - other signs
  - dermatoscopy score
- 10 Images
- 11 Recommendation
- 12 Diagnosis
- 13 Validation
- 14 Date and time of validation
- 15 Signature
- 16 Page number

DERMATOSCOPY ANALYSIS REPORT

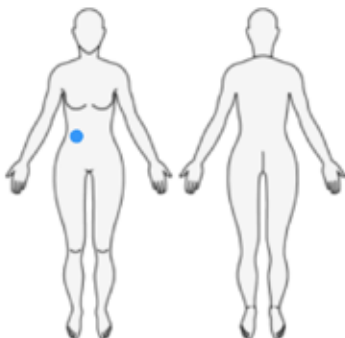


1	<b>Category</b>	Medical examination
	<b>Sample ID</b>	113
	<b>Patient ID</b>	123456
3	<b>Name</b>	Kate Smith
	<b>Birth date</b>	5/25/1979
	<b>Gender</b>	Female
4	<b>Address</b>	53 Church str
	<b>Insurance</b>	Eurolife
	<b>Medical record</b>	m532560053f

<b>Examination date / time</b>	6/9/2011 11:27 AM
<b>Test number</b>	3
<b>Institution</b>	Apollo Hospital
<b>Address</b>	25, Yongue str
<b>Department</b>	Surgery
<b>Ward</b>	6
<b>Practice</b>	
<b>Physician name</b>	Rebecca Nelson

7 **Comments**  
 A formation appeared six months ago after a summer holiday

8 **Dermatoscopy study**



<b>Dermatoscopy study ID</b>	68
<b>Date</b>	10/11/2011
<b>Last modified date</b>	10/11/2011
<b>Body region</b>	Abdominal region
<b>Diagnosis</b>	Melanoma

9 **Analysis results**

Dermatoscopy criteria	Dermatoscopy criteria
Asymmetry	Asymmetry on both sides
Border	Other
Segment 1	Regular
Segment 2	Regular
Segment 3	Regular
Segment 4	Irregular
Segment 5	Irregular
Segment 6	Regular
Segment 7	Regular
Segment 8	Regular
Color	White, red, light brown, dark brown, greyish blue
Dermatoscopy structures	Structureless areas, dots, globules
<b>Other</b>	
Size	more then 5 mm
<b>Dermatoscopy score</b>	
Score	6,8

10

Images



1. Clinical image



2. Dermatoscopy

11

Recomendation

Consult with oncological surgeon

12

Diagnosis

Melanoma

Validated by

13

<b>Name</b>	Dr. Chris Mayers	<b>Date</b>	05.10.2011
<b>Position</b>	Cosmetologist	<b>Time</b>	11:15

14

Signature \_\_\_\_\_

15

16

# Database



*Thanks to the database  
I can be sure that  
my analysis results  
are stored securely,  
and, what is the most  
important, statistical  
reports no longer take  
so much time to prepare*



## Reliable database

Vision database stores all patient records, dermatoscopy studies and examinations. Information is shown in a form of a patient record with his/her dermatoscopy studies with conducted examinations. Possibility to assess quickly the dynamics in lesion change of one patient over a period of time.

The system saves all data automatically, excluding any possibility of losing valuable information. Advanced data management tools, like filtering and sorting, will help you not to waste time on searching.

Storage, statistic handling, quick search, cooperation with colleagues, remote access via Internet and integration into other information networks (LIS/HIS).



# Network capabilities



View analysis results on the screen and discuss with your colleagues.



Print out your reports.



Data import/export to other information networks (LIS/HIS).



Share information with people wherever they are. Send your reports by email.



Organize video conferences with colleagues from around the world.



Connect, via Internet, multiple workplaces to a remote server.





Publish your research on specialized social networks.

# Main characteristics

	Description	Vision Derma	Vision Derma Pro
	Dermatoscope and a professional digital camera to create digital dermatoscopy studies.	✓	✓
	Personal computer with Vision software, monitor and color printer.	✓	✓
	Automatic wireless transfer of images.	✓	✓
	A professional set of tools to work with digital images: create, edit, organize, classify and comment.	✓	✓
	Human body diagram to store all digital dermatoscopy studies with corresponding body areas.	✓	✓
	Configurable diagnosis reference guide. Color marker.	✓	✓
	Choice of an algorithm and a diagnosing method. Dermatoscopy algorithms are presented in the reference guide: ABCD rule, Kittler algorithm, etc.	✓	✓
	The dermatoscopy analysis algorithm can be adjusted using editable criteria reference guide. The dermatoscopy score is calculated according to criteria or proposed diagnosis.	✓	✓
	Examination comparison to assess changes in a dermatoscopy study at different examinations.	✓	✓
	Dermatoscopy atlas with criteria established in the reference guide.	✓	✓
	Text templates for the report – a configurable set of the most used text fields.	✓	✓
	Storage, statistic handling, quick search, cooperation with colleagues, remote access via Internet and integration into other information networks (LIS/HIS).	✓	✓
	Report contains: information about an institution, patient, dermatoscopy study, criteria, examination and diagnosis.	✓	✓
	Dermatoscopy image analysis. Manual and automatic selection of objects of interest. Tools to create marks and comments on the digital image.		✓
	Classification of objects according to a required criteria.		✓

# Ordering information

Description	Code
 <p><b>Vision Derma system</b> Set includes: HEINE DELTA 20 dermatoscope, photo accessory set including photo adaptor, Canon EOS professional digital SLR camera, Vision Derma software, PC, monitor, printer.</p>	<b>60.0012.01</b>
<p><b>Vision Derma software</b> Set includes: Vision Derma software.</p>	<b>20.0012.01</b>
 <p><b>Vision Derma Pro system</b> Set includes: HEINE DELTA 20 dermatoscope, photo accessory set including photo adaptor, Canon EOS professional digital SLR camera, Vision Derma Pro software, PC, monitor, printer.</p>	<b>60.0112.01</b>
<p><b>Vision Derma Pro software</b> Set includes: Vision Derma Pro software.</p>	<b>20.0112.01</b>

**HEINE** QUALITY  
MADE IN GERMANY

: HEINE DELTA 20®

## LED Dermatoscope

:- Bright LED-illumination

:- High-resolution precision optics

:- Diagnosis and documentation

For dermatoscopic examination of pigmented skin lesions and early diagnosis of malignant melanoma. Dermatoscopy oil is applied to the skin to make the outer skin layers more transparent.

The DELTA20 makes structure changes visible. The differential diagnosis of initial malignant melanoma and other pathologies is made easier and more accurate with DELTA20.

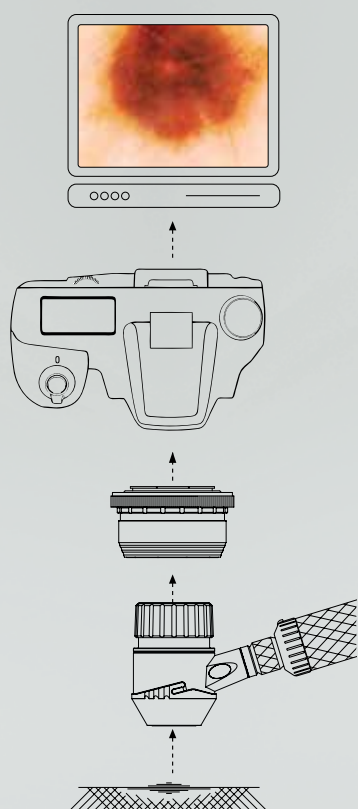
The unique achromatic lens system reveals tiny variations in the pigment net and other features of lesions at 10x magnification as a highly-detailed, undistorted image. High-resolution digital photography is easy and affordable.



## HEINE DELTA 20<sup>®</sup> dermatoscope



Using an instrument of the highest quality is the best way to ensure the most accurate diagnosis. With high-resolution precision optics and an exclusive illumination system (patent pending), the DELTA 20 Dermatoscope is the ultimate tool in the examination of pigmented skin lesions and provides a significant diagnostic contribution in the early detection of Malignant Melanoma.



∴ **Optics.**

High-resolution precision optics with achromatic lens system.

∴ **Magnification.**

10x

∴ **Field of view.**

23 mm dia.

∴ **Illumination.**

Exceptionally-bright, close to daylight 6-LED-illumination. 3-LED-illumination can be selected for improved contrast. The light of the 6 LED's is projected through precision cylindrical light guides, for even, homogenous illumination.

∴ **LEDs working life.**

Virtually unlimited working life.

∴ **Eyepiece.**

Can be focused precisely through a range of correction from -6 to +6 dpt. Smooth, soft eyepiece prevents damage to spectacles.

∴ **Contact Plates.**

Large Contact Plate (23 mm dia.) Small Contact Plate (8 mm dia.) for examination of normally inaccessible lesions. Easy to change plates. (Digital photography possible with both large and small contact plates.) Special connection design ensures a firm fit to the instrument. Autoclavable at 134 °C/5 min.





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We reserve the right to change specification without notice.

Official distributor

Rev 3.1/12.2011 EN