

Moleanalyzer® pro

Original user manual

Software

FotoFinder Moleanalyzer pro

Original user manual

Please read these original operating instructions carefully before using the device and always keep it easily accessible!



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1 About these operating instructions

Please note the following points when using the product and this user manual:

- The product can only be used, operated and maintained properly and safely with the help of this user manual.
- This user manual refers only to the product indicated on the cover sheet.
- We reserve the right to change this user manual due to further technical developments.
- The operator must ensure that the user manual is read and understood by all persons concerned prior to work.
- The chapter on *Safety* (cf. chapter 3 Safety) provides an overview of all important safety aspects for the protection of personnel and the safe operation of the product.
- The manufacturer is not liable for any damage resulting from non-compliance with this user manual.
- Reprints, translations and reproductions in any form, including excerpts, require the written consent of the publisher.
- Copyright belongs to the manufacturer.
- Safety incidents occurring in connection with the product must be reported to the manufacturer and the competent authority of the respective country in which the operator is established.

The development and production of all products of FotoFinder Systems GmbH is carried out in accordance with the current ISO 13485 standards.

1.1 Related documents

The following associated documents are relevant for the use of the product and these operating instructions:

- **EU** Declaration of Conformity
- Hardware instructions for use
- Additional software instructions for use (FotoFinder Universe)



Further safety and operating instructions are described in detail in the separate instructions for use (e.g. FotoFinder Universe), which must also be observed.

1.2 Presentation of warning labels

- In the operating instructions, warnings are marked with a signal word panel.
- Warnings are introduced with signal words expressing the extent of the hazard.
- Observe all warnings to avoid accidents, personal injury and damages.
- The following signal words and symbols are used in the operating instructions:

A WARNING

Death or severe injuries may occur if appropriate cautionary measures are not taken.

A CAUTION

Indicates a possible hazardous situation, which may lead to minor injuries if not avoided.

(NOTE

Notes indicate important information that the user must consider when executing an instruction. Notes provide the user with more detailed information on a particular subject.

1.3 Explanation of the symbols



CE Mark

Manufacturer



Displays the Swiss authorized representative: Johner Medical Schweiz GmbH, Tafelstattstrasse 13a, 6415 Arth, Schweiz



Country of origin / Date of manufacture



Model number



Medical device



Unique Device Identification



Observe User Manual



2 Installation, updates and uninstalling

The Software must be installed by a trained person or a representative of FotoFinder Systems GmbH. This is also applicable for updates, maintenance and deinstallation of the software.

2.1 System requirements

In order to operate FotoFinder Moleanalyzer pro, certain system requirements must be fulfilled.

- CPU
 - 2.50 Ghz
 - Quad-Core (4 cores / 8 threads)
 - CPU-Generation not older than 5 years
 - x86-64 architecture
- RAM
 - 16384 MB (16 GB) RAM
- Graphic card
 - integrated graphic card
 - 1 GB RAM
- Hard drive
 - 500 MB/s, e.g. M.2 SSD with 6 Gbit/s for Operating System
 - 500 GB free memory space
- Monitor
 - 1920 x 1080 px, 24"
- Operating system
 - Microsoft® Windows® 10 Pro, 64 bit
 - Microsoft® Windows® 11 Pro, 64 bit
- Protection e.g. malware, firewall
- For requesting the Online AI Score, an Internet connection is required. In addition, port 443 und 5006 must be open in the firewall in order to request a score.

A WARNING

Malfunction of the application

Correct execution of the application can only be ensured if the system requirements are met.

Please pay attention to the system requirements!

2.2 Considerations for IT-Security

Additional information regarding IT-Security is listed in a Manufacturers Disclosure Statement for Medical Device Security (MDS2 form) and can be requested at info@fotofinder.de.

2.2.1 Password

The most common access restriction is the password. However, this should meet some basic requirements to provide adequate protection. The password should be at least 8 characters long and consist of letters as well as numbers and special characters (!, &, %). It is important to avoid using words in the dictionary or names or personal data. In addition, passwords should not be stored in obvious locations (such as on the desk). In order to ensure sufficient security, it is also essential to change the password regularly.

2.2.2 Antivirus Software

Each computer should have an anti-virus program installed to protect against computer viruses that can be transmitted over the network, mobile devices, or the Internet. However, this only provides sufficient protection if it is updated regularly. Every delivered FotoFinder PC is equipped with an anti-virus program.

2.2.3 Access Protection

In order to avoid unauthorized access to data, the screen should always be locked after leaving the workstation. This can be done either manually or by automatic logout. It should also be ensured that employees only have software authorizations suiting their tasks. For example, administration rights should not be activated for common users. With the FotoFinder Universe, we offer a user management where authorizations and rights can be defined for different user groups.

2.2.4 Backup

To prevent loss of personal data, daily backups must be performed. All devices, including mobile data carriers, should be included. Non-modifiable storage media (e.g., CD) or changeable media with a qualified electronic signature or timestamp should be used. The backup should be verified regularly to make sure that it works. The backup media must be kept in a secure, safe location, e.g. in a lockable cabinet or a safe. It is also recommended to encrypt the backup files.



2.2.5 Remote Support

If remote support has to be carried out on your system, the dial-in of the technician should only be possible via the authorization of a current password. The password should also be changed immediately after the maintenance has been completed. All patient-relevant data you submit to us should be encrypted, e. g. with BitLocker. It should also be ensured that the access rights of the technician are kept to a minimum. If possible, remote maintenance should be based on test data to ensure patient rights. Finally, a log should be made to document changes in the system and files that were accessed during maintenance. Remote support is carried out via *TeamViewer*. In this case, all data runs over completely encrypted channels (AES 256 bits) in order to prevent tapping and decoding by third parties. A new session password is generated at each startup and the login occurs via a two-factor authentication. In addition to user ID and password, an additional code is necessary, which is protected by a remote access password. Our support follows the following principles when using TeamViewer:

Transparency

Each IT support employee uses their own TeamViewer account with their real name, which is communicated with the customer in advance so that the customer has transparency about who and when they can expect to receive remote support.

Trusted communication channel

The communication between IT support and customers always uses a secure email address/domain which has a valid DKIM, SPF and DMARC record.

No unattended access

IT support only performs TeamViewer remote sessions when the customer is physically present. The IT support employee is usually on the phone with the customer while conducting remote sessions.

Data protection training

As part of the training of our support staff to use TeamViewer, a data protection briefing is provided to ensure that employees handle customer data responsibly. This includes that any sensitive data that may be obtained from the customer such as passwords have to be deleted when it is no longer needed.

Password renewal

It is communicated to the customer that he should close the TeamViewer QuickSupport application after the remote session to force the creation of a new password when reopening the application and at the same time avoid possible unauthorized access attempts. TeamViewer QuickSupport does not allow predefined passwords to be set by the customer.

2.2.6 Security patches

In case of security-relevant updates of FotoFinder software, the FotoFinder Support will contact you directly. Any updates are only performed by FotoFinder Support and cannot be installed by the customer. Such updates are also performed using TeamViewer, please see "Remote Support" for details.

2.2.7 Customize default settings

If you get a new software / operating system, you should immediately change the default passwords to counteract data misuse. Also, the system configurations have yet to be adjusted to personal needs to enable effective and efficient work.

2.2.8 Firewall

To ensure data traffic security between network segments, a firewall should be installed. Here, a multi-level system should be built. Basically, the transition between a local network and the Internet should be controlled. Subnetworks with patient data still require additional protection. It is advisable to consult an IT expert in order to exclude security gaps.

The following connections are allowed by our Online Al Server:

SMTP (587) Allow sending email messages on port 587/tcp SQL Server (Port 1500) Allow managing data in a relational database,

accessible on port 1500/tcp

Plesk administrative interface Manages web hosting services and servers. WWW server Hosts websites and servers related to

Moleanalyzer pro

FTP server Allow data transfer from/to Moleanalyzer pro SSH (secure shell) server Provides secure remote login and command

execution

SMTP (mail sending) server Allow sending emails from a client to a server or

between mail servers.

IMAP (mail retrieval) server Allow retrieving and managing email messages

from a mail server.

Ping service Tests the reachability of the online server on a

network and measures the round-trip time for

messages sent.

2.2.9 Patient rights

FotoFinder software ensures patient rights according to the GDPR using the following software features:

Right of rectification (Chapter 3 Art. 16)

Feature in FotoFinder software: Change patient data

Right to erasure (right to be forgotten) (Chapter 3 Art. 17)

Feature in FotoFinder software: Delete patient

Right of data portability (Chapter 3 Art. 20)

Feature in FotoFinder software: Print Report containing all images

2.2.10 Data processing

FotoFinder Systems processes personal data in accordance with the principles Confidentiality, Integrity, Availability, Accountability and Authenticity. FotoFinder software is ad-free. The contents of your FotoFinder database will be managed in accordance with the data protection regulations. The database including the stored images will in particular not be processed, used, stored or made accessible to third parties. The data will not be linked to third party data about the user or the device and will not be used for third party advertising, your advertising or branding purposes. The database will only be viewed to the extent necessary to diagnose and resolve any existing malfunctions. FotoFinder Al Score analysis uses blob images to process the image data. The Al Score service does not analyze any data without the customers' intent. The algorithm has no access to patient data. The generated data is solely used for analytical reasons (e. g. credit usage).



2.2.11 Data storage

FotoFinder uses cloud services of Amazon for data storage. Structural and blob image data are hosted on AWS servers based in the EU in Ireland and Germany (MongoDB, AWS S3). All data is encrypted at transport and rest according to HIPAA requirements via a HTTPS encryption. We have configured secure and encrypted storage with backups. AWS data center is certified according to ISO/IEC 27001:2013, 27017:2015, 27018:2019, ISO/IEC 9001:2015 and CSA STAR CCM v3.0.1. We dispose of Business Associate Agreements required by HIPAA (Health Insurance Portability and Accountability Act of 1996) for AWS and MongoDB.

When using the Moleanalyzer pro and in particular the calculation of the Al Score, data storage is handled differently based on which type of Al license is used:

- When using an Offline Al license to calculate the Al Score, data and its analysis is handled solely inside the local system. No data is transferred from the Moleanalyzer pro to outside locations.
- When using an Online AI license to calculate the AI Score, a copy of the micro image to be analyzed is uploaded via a safe connection (secured via HTTPS & SSL certified) to a secure FotoFinder cloud server. The image is stored there for the duration of the AI Score analysis and then deleted immediately afterwards. Only the AI Score is sent back to the customer again via a safe connection (secured via HTTPS & SSL certified). Uploaded images are therefore only stored externally for the duration of the analysis which takes from a couple of seconds to maximum a couple of minutes. No patient information is sent besides the single micro images. Other patient information remains stored on the local system at the customer site.

Personal data will be stored for the duration of the business relationship and beyond in accordance with the statutory retention periods.

2.2.12 Network data streams

- Communication between Moleanalyzer pro and FotoFinder Hub

 Moleanalyzer pro communicates with the FotoFinder Hub via Wi-Fi/ethernet to request a

 Second Opinion. SSL certificates are exchanged with the data transfer. Data is encrypted
 according to https specifications (TLS 1.2 and higher).
- Moleanalyzer pro communicates with the Machine Learning Server via Wi-Fi/ethernet to generate the Online Al Score. SSL certificates are exchanged with the data transfer. The data transfer is encrypted according to https specification (TLS 1.2 and higher). Moleanalyzer pro sends a microscopic image as JPEG file to the Machine Learning Server, which retrieves the Online Al Score and sends it back to Moleanalyzer pro via https. The Machine Learning Server does not save any patient-related data.
- Communication between Moleanalyzer pro and FotoFinder Universe

 Moleanalyzer pro communicates with the FotoFinder Universe via the local file system to exchange data and license information. The data transfer is encrypted according to https specification (depending on the default TLS version used by Windows). Data is exchanged in JPEG and XML format.

3 Safety

3.1 Adherence to the operating instructions

(NOTE

Every person assigned to work with the system must have read and understood these operating instructions and particularly the chapter on *Safety*.

- The knowledge and observation of the applicable contents is a prerequisite for protecting users and patients from hazards and to prevent user errors.

 It is therefore imperative that all safety guidelines are followed to ensure your safety.
- These operating instructions are a component of the system and must always be available near the product. These operating instructions must be read and understood by the personnel and observed during any work with the system. Please contact the manufacturer immediately if contents of these operating instructions are unclear or if you have any questions.
- Apart from the safety guidelines in these operating instructions, please observe the following regulations and provisions:
 - Intended use
 - Appropriate accident prevention regulations
 - Occupational health regulations
 - Generally recognized safety-related regulations
 - Country-specific regulations
 - Attached documentation from third-party manufacturers
- In addition to these user instructions additional safety regulations of your institution or company may have to be observed.
- Additional training is required besides reading these user instructions. The training must be administered by qualified training personnel only.
- The safety instructions of the manufacturer are provided in addition to the general safety regulations of your institution or company. The provided instructions shall not invalidate existing regulations.

3.2 Intended use

FotoFinder Moleanalyzer pro is a software, which is intended to be used in addition to FotoFinder Universe. It is intended for the assessment of clinically atypical cutaneous pigmented lesions with one or more clinical or historical characteristics of melanoma. FotoFinder Moleanalyzer pro is designed to be used when a dermatologist chooses to obtain additional information for a decision to biopsy. FotoFinder Moleanalyzer pro should not be used to confirm a clinical diagnosis of melanoma. The Moleanalyzer pro offers assessments by indicating parameters for the commonly used 3-Point Checklist, 7-Point Checklist or ABCD rule to classify lesions (Asymmetry, Borders, Color and Structures).

Optionally, the software uses a convolutional neural network (CNN) algorithm to generate a risk score (Al Score). This Al Score indicates the similarity to malignant lesions by generating a value, which is assigned to different categories. In addition, the software generates a score which indicates the similarity to melanocytic skin lesions. This assessment supports dermatologists in the classification of different types of skin cancer. The accuracy of the algorithm is comparable to the performance of dermatologists.



3.3 User groups

The following target groups with the required qualifications may work with the software:

Target group	Qualification
Medical professionals	Professionally qualified as physician or dermatologist

The FotoFinder software is only intended for physicians trained in the clinical diagnosis and management of skin cancer (i.e. dermatologists) who have also successfully completed a training program in the appropriate use of the software.

3.4 Use environment

The product is intended for use in a professional medical environment (e.g. clinic, hospital) by the users described in the chapter on *User groups* (cf. chapter 3.3 User groups). The product is not intended for use by laypersons.

Requirements for the physical as well as technical usage environment are described in detail in the separate system manuals (e.g. *Dermoscopy* and *Automatic Total Body Mapping*), which must also be observed.

There are no other applicable requirements for the social or clinical environment of use.

3.5 Patient population

Patients with one of the following characterizations are intended to be examined with the software:

- General persons with skin lesions, moles
- Patients with multiple nevus syndrome
- People with high risk of skin cancer / family history of skin cancer

The intended patient population includes patients regardless of demographic factors (e.g. gender, age, profession), physical factors (e.g. weight, height, strength) or social, religious and cultural background.

3.6 Indications and contraindications

The software is intended for the conditions mentioned in chapter *Patient population* (cf. 3.5).

3.6.1 Indications

ICD Code	Description
L57	Actinic keratosis
C44	Basal cell carcinoma
L82	Benign lichenoid keratosis
D48	Atypical nevus
D18	Hemangioma
L98	Hemorrhage
C43	Malignant melanoma
D03	Malignant melanoma in situ
D03	Lentigo maligna
C43	Lentigo maligna melanoma
C43	Superficial spreading malignant melanoma
C43	Nodular malignant melanoma

C43	Acrolentiginous malignant melanoma			
C43	Amelanotic malignant melanoma			
C43	Desmoplastic malignant melanoma			
D22	Melanocytic nevus			
D22	Papillary melanocytic nevus			
D22	Acral melanocytic nevus			
D22	Blue nevus			
D22	Spindle-cell nevus			
D22	Spitz nevus			
D22	Halo nevus			
D22	Melanocytic nevus with congenital part			
L81	Naevus spilus			
L81	Lentigo simplex			
L81	Agminated melanocytic nevus			
L81	Irritated seborrheic keratosis			
L82	Seborrheic keratosis			
L82	Lentigo solaris/senilis			
D23	Dermatofibroma			
D04.9	Bowen's Disease			
L43	Lichen ruber planus			
D36	Benign neoplasm			
L85	Keratoakanthoma			
C80	Spinocellular Carcinoma			
B35.0	Tinea barbae and tinea capitis			
L21	Seborrhoeic dermatitis			
L93.0	Discoid lupus erythematosus			
Q84	Other congenital malformations of integument			
Q84.8	Other specified congenital malformations of integument (Aplasia cutis congenita)			
C44.9	C44.9 Squamous cell carcinoma			
Tab. 1: Indic	cations			



3.6.2 Contra-indications

The Moleanalyzer pro only supports microscopic images of a lesion. The software is not intended to support pre-assessment of images from acral skin, mucosa, eyes and natural or artificial body orifices. The software does not diagnose a disease. This pre-assessment is only applicable to the diseases listed in the *indications* section.

Do not use the AI Score for assessment of lesions with a diameter of < 2 mm or > 20 mm.

Do not use the Al Score for the evaluation of lesion on hairy area or in locations near contaminations or markings (e.g. tattoos) within an area of 30 mm.

The algorithm was trained with images of Fitzpatrick skin type I-III. Do not use the AI Score on patients with skin type IV or higher, as the performance of the algorithm was not assessed and therefore the accuracy of the algorithm cannot be claimed.

Moleanalyzer pro is only intended to be used on lesions captured on intact skin. Do not assess lesions located in areas of psoriasis, eczema, acute sunburn or similar skin conditions.

Scale bars in micro images might have a negative effect on the CNN's accuracy.

3.7 Clinical Benefits

With the FotoFinder Moleanalyzer pro, the following clinical benefits for the user / patient are aimed:

- The software is intended to make mole mapping and comparison more efficient. Moles from different dates can be compared more easily. Changes in appearance may be visualized and found faster.
- Young dermatologists can learn how to assess a mole with accepted assessment methods (3pt checklist, 7pt checklist, ABCD rule).
- Users can upload an image with an unknown diagnosis to the Second Opinion service to receive a second diagnosis opinion form a specialist in dermoscopy (tele-dermatology service).
- Fourth benefit is the analysis of a given lesion by an artificial intelligence algorithm (convolutional neural network CNN). The analysis gives more information about the lesion and its potential to be malignant as well as the similarity to melanocytic lesions.

Performance characteristics

The performance of the CNN has been proven in different studies (also look here https://www.fotofinder.de/technologie/studien-und-forschung/studien-zum-thema-fotofinder-ai). The sensitivity and specificity are comparable to those of dermatologists.

Furthermore, the accuracy of dermatologists can be increased when using the CNN as additional tool in the diagnosis of skin lesions and the number of unnecessary excisions of benign lesions can be reduced.

3.8 Improper use

- Any use other than that described in the chapter on Intended use (cf. chapter 3.2 Intended use) and in this user manual and any use beyond the scope is considered improper use!
- The manufacturer is not liable for any resulting damage. The risk is borne solely by the user / operator.
- The software may only be operated on computers (incl. screen) that meet the minimum system configuration (cf. 2.1) requirements.
- The use of the software in a medical context on devices that do not meet these OS specifications is prohibited.

3.9 Foreseeable misuse

The following points describe foreseeable misuse of the software:

- The physician incorrectly assumes that the software provides a diagnosis.
- The physician bases their diagnosis exclusively on results of software.
- The application for documentation is performed on non-intact skin, mucous membranes or in body orifices.
- The physician believes that the accuracy of the Al Score can be claimed and assumes that the score is indicative of the malignancy of the mole.
- The physician requests an Al Score for an image that does not meet the requirements, e.g., due to body hair, visible tattoo, or size of the lesion.



For information on the foreseeable misuse of connected hardware components, please refer to the user manual of the respective device.

3.10 Residual risks

A WARNING

Despite compliance with all regulations and the implementation of risk-minimizing measures, not all risks can be completely excluded. Residual risks that exist in connection with the use of the product are listed below.

Software

- Improper operation by untrained personnel may result in harm to the patient.
- Incorrect entry of information in the software, or incorrect assignment of patients or images by the operator, can lead to a misinterpretation. The consequences can be an unnecessary treatment or delayed treatment of a skin condition.
- Installing additional software on the PC may, in some cases, cause the FotoFinder Universe software to stop working. If you have any questions about compatibility, please contact FotoFinder support.
- Misuse by the user cannot be ruled out completely despite the provision of written user instructions and training.
- If the user bases the diagnosis solely on the results of the software (incl. Al Score), it may lead to unnecessary or delayed treatment of a skin condition.
 Misinterpretation of the algorithm cannot be ruled out.



3.10.1 IT-Security

The following residual risks regarding IT-Security cannot be ruled out completely despite the implementation of risk control measures:

- Accessing and using another user's credentials, such as username and password (Spoofing)
- Maliciously changing or modifying persistent data and the alteration of data in transit (Tampering)
- Performing prohibited operations in a system that lacks the ability to trace the operations (Repudiation)
- Reading a file that one was not granted access to, or reading data in transit (Information disclosure)
- Attempting to deny access to valid users, such as by making a web server temporarily unavailable or unusable (Denial of Service)
- Gaining privileged access to resources in order to gain unauthorized access to information or to compromise a system (Elevation of privilege)

Those residual risks may lead to the rapeutic patient data being published along with the name of the patient in the worst case.

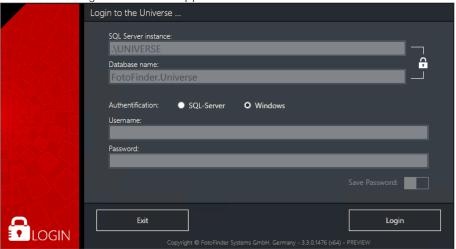
4 Starting the System

4.1 Database login



1. To start the FotoFinder Universe software, simply double click on the desktop shortcut.

The database login window will appear:



2. Establish the connection to the database by clicking on *Login*. If you are working with the optionally available user management, you must first enter the username and password before clicking on *Login*.

The dashboard will appear (cf. chapter 4.2 Dashboard).

4.1.1 View-Only access

Alternatively, the database connection can also be established through a *View-Only access*. This is designed to

- to view / manage / edit the images and
- to review the findings.

In this mode no new images can be captured.



- . To start FotoFinder Universe as a *View-Only*, double click on the respective icon on the deskton
- 2. Add the login credentials as seen above if necessary and click on *Login*.



4.1.2 QuickLogin

Alternatively to the above mentioned starting method, the software can also be started through *QuickLogin*. In this case the login window will be skipped and you will be directed to the dashboard.



The *QuickLogin* function cannot be enabled if the optional User Management is activated in Universe.

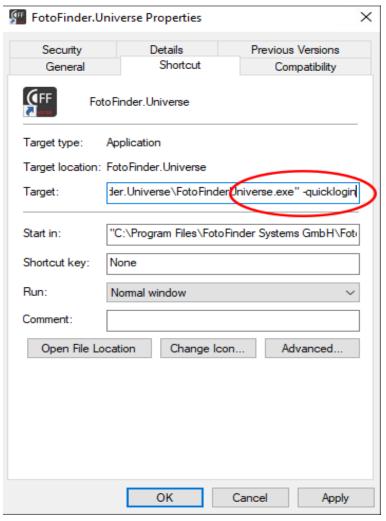
The QuickLogin can be activated as follows:



- 1. Right mouse click on the *FotoFinder.Universe* icon on the desktop. A context menu will appear.
- 2. Click on Properties.

The subsequent Properties window will appear.

3. In the *Target* field go to the end of the text and add the following extension: (*space*)–quicklogin

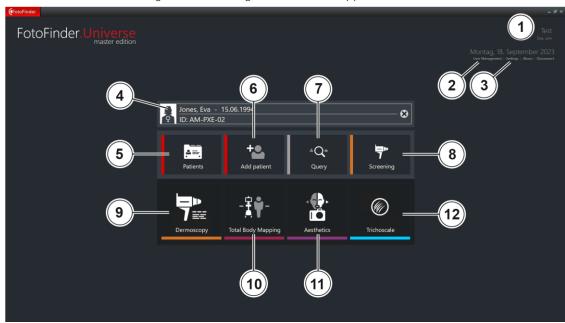


4. Click on *Apply* and then on *OK*.

Afterwards when Universe is started, the login window will be skipped and you will be directed to the dashboard.

4.2 Dashboard

After successful database login, the following dashboard will appear:



This displays the following modules and functions enabled as per your programme license:

1	Software information section	7	Research
2	User Management (optional)	8	Screening
3	Settings	9	Dermoscopy
4	Patient selection field	10	Total Body Mapping
5	Patient Management	11	Aesthetics
6	Add Patient	12	Trichoscale

- Patient Management, Add Patient, Research and Screening can be used immediately once the programme has been started.
- To start Dermoscopy, Total Body Mapping or Aesthetics, you first have to select a patient. These buttons are initially disabled.
- Using Trichoscale DX requires the purchase of a separate license.



4.2.1 Patient search field

1. Type the last name or first name, date of birth or patient ID into the input field. The matching patients will be displayed in a drop-down list as you type.



Fig. 1: Example of a patient query

2. Select the desired patient directly from the drop-down list by mouse click.

The selected patient is now displayed with name, date of birth and patient ID in the patient selection field. This is however different if the option to anonymize patient data is activated in *Settings*. In this case, only the initials of the patient and the patient ID appears in the drop-down list.

3. By clicking on the X on the right side of the input field the selected profile can be cleared.

4.2.1 The About section

On the dashboard in the upper right corner is the additional About section.



Fig. 2: The About section

Next to the *User management* (2) and the *Settings (3)* options the *About section* can be accessed:

Logged in user account (1)

If you are working with the optional *user management*, you can see at this point which user is currently logged in. Otherwise, this area will stay empty.

Date

About (4)

By clicking on *About* you will get information about the program version used, contact details of the manufacturer and other information.

Disconnect (5)

You can log out from the database by clicking *Disconnect* without having to close or restart the application.

5 Moleanalyzer pro

5.1 Starting the application

Moleanalyzer pro is an Expert Module available in *Dermoscopy*. As a prerequisite a micro image is necessary.

Recognized capturing devices are:

Camera	Supported magnification	
■ medicam 1000	20x, 30x or 40x	
■ medicam 800 _{HD}	20x	
■ medicam 500	20x	
■ leviacam	20x	
■ iPhone	20x, manual calibration may be required	
Other devices	manual calibration is required	

(NOTE

For the AI Score analysis a 20x magnification is necessary.



1. Select the patient form your Patient List.



2. Start the *Dermoscopy* module from the Dashboard.



3. Choose the required micro image from the SmartGallery.





The selected image will be highlighted with an orange frame and now displayed in the preview window

The icon of the expert system Moleanalyzer pro on the right side of the screen will become active now.

4. Click on this icon.

The Moleanalyzer pro will open.



The user interface of the *Dermoscopy* module is described in detail in the separate system manuals (e.g., *Dermoscopy* and *Automatic Total Body Mapping*).

5.2 The Desktop



Fig. 3: Example view of Moleanalyzer pro user interface

- 1 Menu bar
- 2 Patient data field
- 3 Detailed image
- 4 Views

- 5 Al-Score benign / malignant
- 6 Al-Score melanocytic / Non-melanocytic
- 7 Assessment queries
- 8 Parameters
- You can see this symbol on various areas on your user interface. With clicking on it, a window will appear with helpful information.
- You can see this symbol on various areas on your user surface. With clicking on it, you can open the scroll down menus.



5.2.1 Menu bar



Close will close the software.

With *Fit* the currently displayed image is adjusted in height and width into the Detail view.

With 1:1 you can display every pixel of the image with one pixel at a time.

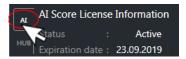
With the help of the slide bar or by turning the mouse wheel the magnification of the displayed image can be set individually. By clicking and holding the left mouse button you can shift the shown image section.

The Manual Correction allows you to adjust the results of the analysis.

Click on Report if you wish to print the results or to save them as a PDF file (cf. chapter 5.11 Reports).

In the *Library* you will find a selection of already categorized lesions. You can use these for comparison purposes (cf. chapter 5.7 Library).

The *Second Opinion* is an additional service (cf. chapter 5.9 Second Opinion).



Here you will see the information about the optionally available AI Offline Score license (cf. chapter 5.6.2 Difference between AI Score and AI Offline Score).



Here you can log in and out of the FotoFinder HUB or see which user is currently logged in (cf. chapter 5.8 The FotoFinder Hub® Account).



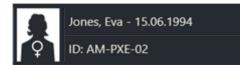
Second Opinion

Within this function you can add your user information which will be added in the reports and adjust the application settings (cf. chapter 5.3 Settings).

With clicking on *About* you will see detailed information about the software.

5 Moleanalyzer pro

5.2.2 Patient Data Field



The patient data field displays name, birthdate, ID and gender.

5.2.3 The Detail view

Above the detail view you will see which detail view is currently selected and the capture date:



With right mouse click on the Detail view you can change between the analyzed and original image.



- With the mouse wheel or with the help of the slide bar you can set the magnification. Hold down the left mouse button in the Detail view to shift the image section.
- Double click on the Detail view will open the image in full screen mode. Double click again to exit the full screen mode.



5.2.4 Views

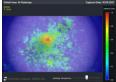
Four different views can be selected for the detail image with a simple mouse-click on the respective view.



Fig. 4: Views for selection

Al Heatmap 🏞

The Heatmap is available as an additional view. The prerequisite is an Al Score that has been requested as an online score.



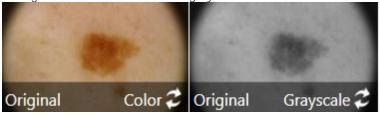
Please note the explanations for this view in the separate chapter (cf. chapter 5.6.3 Al Score Heatmap view)!



By clicking on the toggle symbol in the respective field, the views can be distinguished further:

Original:

Change view between colour and greyscale



Structure:

All or lesions only (the rest is hidden)



Network

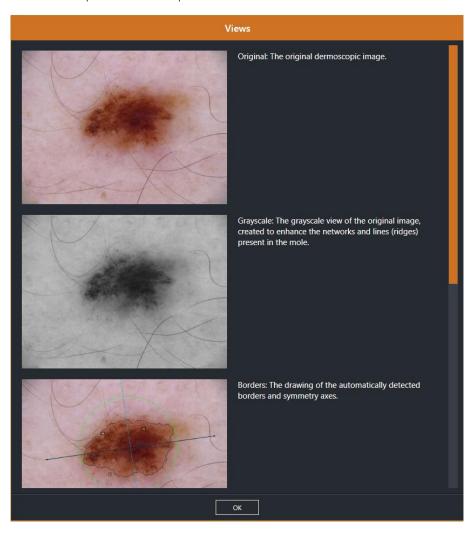
All or lesions only (the rest is hidden)



$5\,{\rm Moleanalyzer\,pro}$



You can call up detailed descriptions via the *Info button*:





5.3 Settings



You can access the settings menu of the Moleanalyzer pro via *Settings*. Here you can store individual adjustments in the software, which are explained below:



Fig. 5: Settings menu in Moleanalyzer pro

User information

These data appear on reports, for example.

- 1. Record your data in the appropriate input fields.
- 2. Confirm your input by clicking on Save & Close.

Application settings

- 1. Click to select whether you want the parameter values in the user interface to be displayed exclusively as numerical values or partly as bar values.
- 2. Adjust the skin-lesion border segmentation to your needs by clicking on the scale.
- 3. Confirm your input with Save & Close.

5 Moleanalyzer pro

Al Score settings

Below you will find an overview of what the different AI Score settings do.

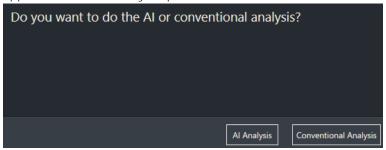
■ Type of start: Direct

If you have selected the option *Direct* for the *Start type*, the further course depends on your *Score Mode*.

For <i>Online</i> Score	mode:	For <i>Offline</i> Score mode: Is the AI Score licence active?		
Is the user alread FotoFinder HUB?	, 00			
Yes	No	Yes	No	
User interface with AI Score opens.	User interface opens. Al Score can only be requested after logging in to FotoFinder HUB (cf. chapter 5.8 The FotoFinder Hub® Account).	User interface with AI Score opens.	User interface opens. Al Score can only be requested after activation of an Al-Offline-Score licence (please contact FotoFinder Systems.).	

■ Type of start: With dialogue

If you have selected the option *With dialogue* under *Start type*, the following dialogue window appears when Moleanalyzer pro is started:



Al Analysis	Conventional analysis
As with <i>Start type: Direct.</i> See table above!	User interface opens. Al Score can be requested depending on the FotoFinder HUB plan or licence.

Al Display

You can choose between two different display modes for the AI score benign / malignant:

- Bars & number. The Al Score is displayed as a numerical value and as a line on the score bar.
- Bar only. A white frame indicates in which of the three areas the Al Score lies.

Also refer to the separate chapter (cf. chapter 5.6.4 Al Score benign / malignant).

Score mode

€NOTE

The distinction between AI Score and AI Offline Score is described in the separate chapter (cf. chapter 5.6.2 Difference between AI Score and AI Offline Score).

About

About:

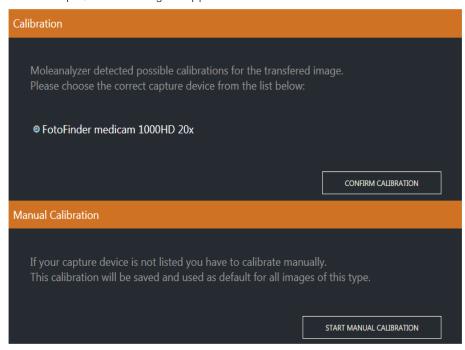
By clicking on About, you can call up further software information, such as the programme version.



5.4 Calibration

In case the software cannot recognize the device the image was made with, the calibration menu will appear.

Multiple options are available, for example in case an iPhone was used as capturing device. As an example, the following list appears:

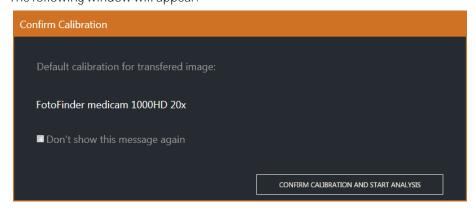


5.4.1 Calibration of recognized devices

If the device you're using is listed, then continue as follows:

- 1. Choose the appropriate device.
- 2. Click on Confirm calibration.

The following window will appear.



By marking the checkbox at *Don't show this message again* all future images with the same resolution will automatically be calibrated for the same device and this window will not appear again.

3. Click on Confirm calibration and start analysis.

The analysis will start now.

5.4.2 Manual Calibration

In case your capturing device was not listed, the following options are available:

- use a saved calibration, or
- start a manual calibration.

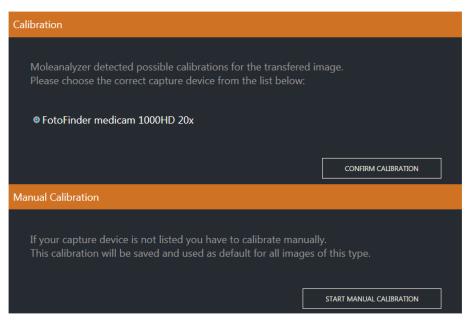


Fig. 6: Example for a calibration display

5.4.2.1 Use a saved calibration

If you already have saved a device for a specific resolution then follow these steps:

1. Click on *select saved calibration*.

A list will appear with the saved devices.

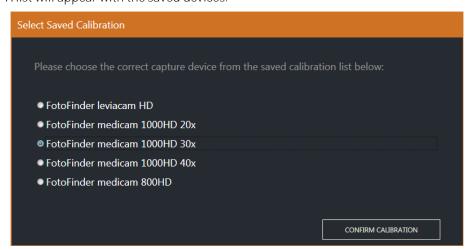


Fig. 7

2. Select the correct device and click on *Confirm Calibration*.



5.4.2.2 Start manual calibration

In case you have not yet saved a calibration for your capturing device, please follow as described below:

- 1. Capture a micro image of a graph paper or a ruler and choose this image when starting the Moleanalyzer pro.
- 2. Click on Start Manual Calibration.

The selected image will appear 1:1 on your screen.

- 3. With holding the left mouse button draw a line of known length.
- 4. In the appearing window insert the known length of the line and the measuring unit.
- 5. Name your calibration.

If you wish to always use the same device for capturing and analysis, you will be able to choose this calibration under the given name, or even permanently set it.

6. Click on Save.

At the next image import your calibration will also appear in the device list offered by the program. You can then delete the micro image of the graph paper or ruler.

5.4.2.3 Manual calibration with scale

If you are using the medicam® micro lenses with a scaled glass tube, you will see a scale in your image which can be used for image analysis and calibration.

Here the distances between the long lines are 1 mm and between the short lines are 0,5 mm.

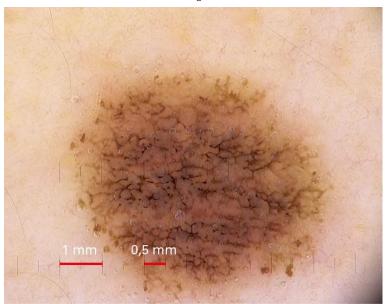
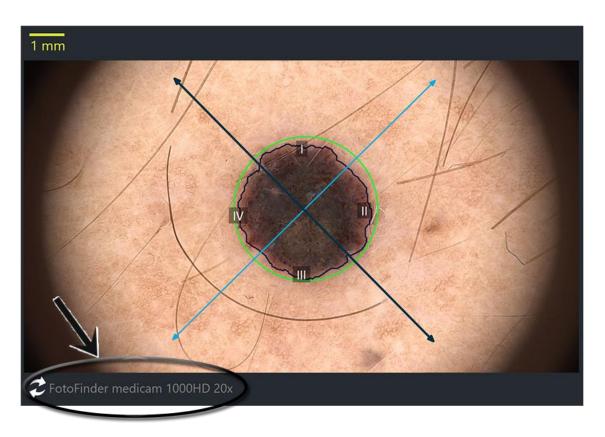


Fig. 8: micro image with scale

- Turn the glass tube on the medicam to assure a horizontal position of the scale in the image.
- Go to manual calibration and continue as previously described (cf. chapter 5.4.2 Manual Calibration).

5.4.3 Changing the calibration

You will see the selected calibration in the Detail View in the lower left corner.



Before starting the analysis there is also an option to change the calibration:

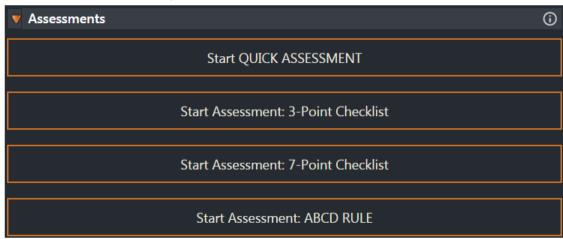
1. Click on the displayed calibration.

You will be directed back to the device list.



5.5 Assessments - Conventional analysis

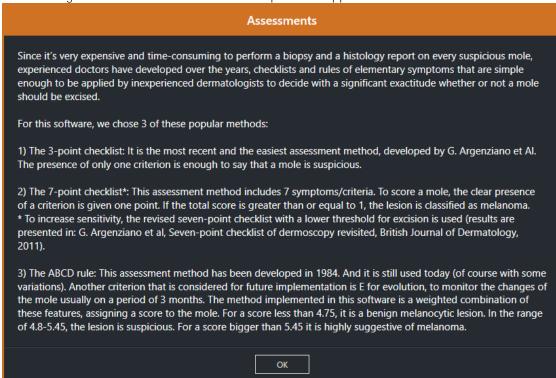
Choose one from the following assessments:



The ABCD rule assessment is optional.



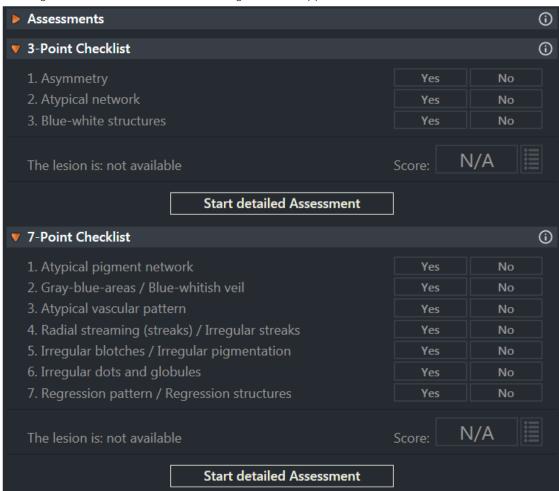
With clicking on the info button a detailed description will appear:



5 Moleanalyzer pro

5.5.1 The Quick Assessment

Clicking on *Quick Assessment* the following sheet will appear:



Here you can assess different factors according to different checklists. You can choose between 3-point and 7-point checklists or ABCD (optional) rule.

- 1. Select one of the assessment options.
- 2. At the subsequent criteria, choose the correct points regarding your analysis.

The software will give you a score.

If you would like to do a more detailed assessment, you can switch to that by clicking on *Start detailed Assessment* (cf. chapter 5.5.2 The 3-point and 7-point Checklists, and the optional ABCD rule).



After evaluating all factors, this button becomes active. Click on this to go directly to the result summary (cf. chapter 5.5.3 The Result summary).



5.5.2 The 3-point and 7-point Checklists, and the optional ABCD rule

Here you will be guided through the different criteria step-by-step. On the lower part of this sheet the software also shows the scores at the parameters for simplification (cf. chapter 5.2 The Desktop).

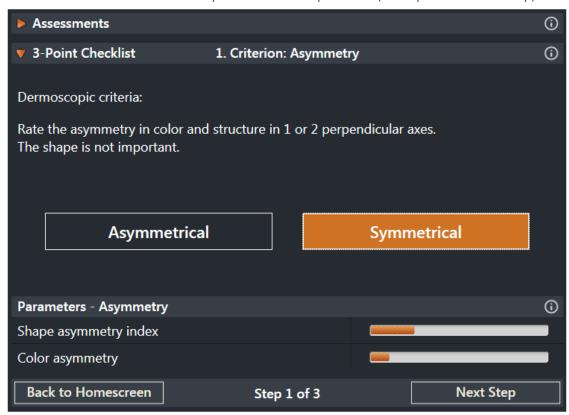


Fig. 9: Example for the 3-point Checklist

- 1. Select the corresponding field.
- 2. Click on *Next Step* to set all criteria one by one.

After evaluating all points, you will be taken to the Result summary (cf. chapter 5.5.3 The Result summary).

5.5.3 The Result summary

You can see the details listed here and can call up each criterion if necessary.

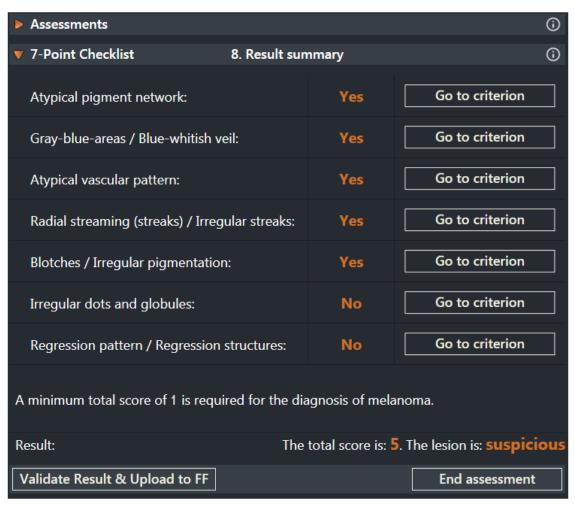


Fig. 10: Example for the result summary

A CAUTION

The displayed total score is based solely on user input and does not represent an independent evaluation of the lesion by the software.

To go to a specific criterion just simply click on Go to criterion.

To complete your assessment you have two options:

- Validate Result & Upload to FF:
 The assessment will be saved and a window will appear to upload to FotoFinder.
- End assessment:
 The assessment will be saved and the evaluation window closes.



5.5.4 The Parameters

The display of the parameters may differ. The parameters are divided into five sections:

- Geometry
- Asymmetry
- Borders and Irregularities
- Color
- Structure

The values are automatically generated by the software on the basis of the segmentation.



The info section will display detailed information about each parameter.



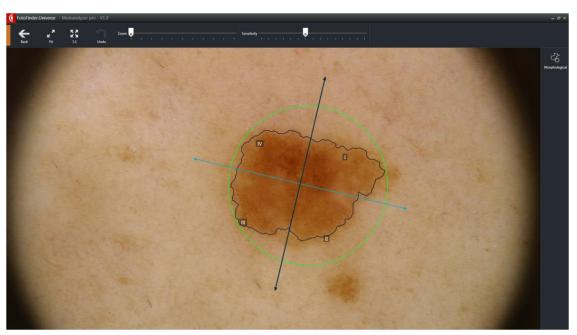
Segmentation and parameter accuracy cannot be expected or claimed.

5.5.5 Editing the evaluation section

You can manually adjust the calibration of the analyzed surface.



1. Click on *Manual Correction* in order to adjust the result of segmentation. The following editing window will open.



- With right mouse click you can show/hide the symmetry axes and borders.
- With holding down the left mouse button you can move the image.



In Manual Correction these functions are available: With *Undo* you can cancel your previous action.

With this scale you can adjust the sensitivity of the edge detection.





With the Morphological tool you can manually adjust the automatically segmented border.

- 1. Click on the *Morphological* icon.
- 2. Adjust the size of the drawing ring with the mouse wheel.
- 3. Holding down the left mouse button you can move the blue borders either from inside to outside, or vice versa (see white arrow):

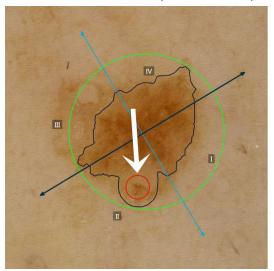
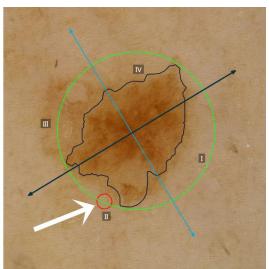
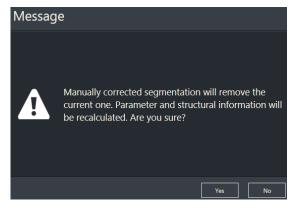


Fig. 11: The application of the Morphological tool.





When you leave the *Manual Correction* with clicking on *Back*, the program will ask you if you want to recalculate the values. Choose *Yes* or *No*.

Fig. 12

The unsaved manual adjustments are going to be lost when leaving this function.

5 Moleanalyzer pro

5.6 Al Analysis (Artificial intelligence)

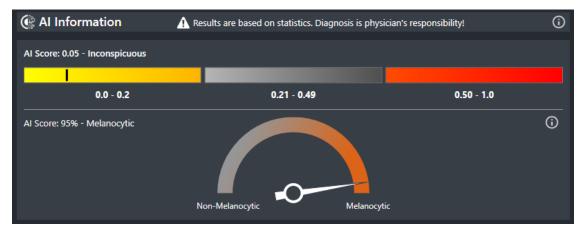


Abb. 13: Example view Al Analysis

The FotoFinder Moleanalyzer pro uses a Convolutional Neural Network (CNN) algorithm for the so-called Al Score. The sensitivity as well as the specificity of the algorithm were proven in a clinical study.

(NOTE

The Al Score can be requested for images with 20x magnification.

The lesion must completely be in the image frame.

For manually calibrated images the AI Score result shall be considered with reservations.

A WARNING

The AI Score is based on statistics. The accuracy of the AI Score can therefore not be guaranteed. It is intended as additional support for the doctor.

The Al Score is not a substitute for the physician's overall clinical diagnosis!

€NOTE

Note the various setting options that Moleanalyzer pro offers you for the Al Score (cf. chapter 5.3 Settings).

5.6.1 Request Score

In the settings (cf. chapter 5.3 Settings), you can specify that the AI analysis is to be started immediately after the programme is started. Alternatively, you can start the AI analysis yourself after starting the programme:

Request Score

Click on Request Score.

As soon as the Al Score has been requested, automatic segmentation is hidden in the preview image, as these are independent of each other.



5.6.2 Difference between AI Score and AI Offline Score

To find the optimal solution for you, please contact our sales department (info@fotofinder.de / phone 08563/977200), or our local distributors.

Al-Score Al-Offline-Score
Online access to the Al algorithm Locally installed classification program (Al algorithm)

Prerequisite

FotoFinder HUB® account with chargeable Pro Plan (cf. chapter 5.8 The FotoFinder Hub® Account) required

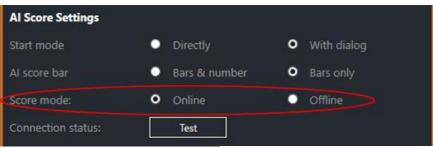
chargeable license required

Activation



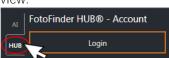
In *Settings* you can select which Al method would you like to use:

1. Click on Online or Offline.



If you select *Online*, you can test the server connection with clicking on the Test button.

In the menu bar you can log in to the HUB or see which account is in use at the moment. Here is an example view:



In the menu bar you will see information about your license. Here is an example view:



Note

In order to be able to use the Al Score function, make sure that you have an Internet connection, because the pictures will be transferred to a FotoFinder server anonymously in order to be classified. In addition, port 443 und 5006 must be open in the firewall in order to request a score.

5.6.3 Al Score Heatmap view

(NOTE

This view is only available if you use the AI Score with online access to the AI algorithm, not the AI offline Score (cf. chapter 5.6.2 Difference between AI Score and AI Offline Score).



If the Al Score was requested, the *Heatmap* button appears next to or above the Score. By clicking on the button, you can display a type of thermal image view in the detailed view.

In this case, colours will indicate which areas of the lesion were particularly decisive for the calculation of the Al Score. For example, red areas were particularly interesting, while blue areas were more insignificant. For orientation, you can also see this colour rating displayed as a colour gradient with a scale on the right of the detailed view.

The Heatmap view makes the result of the Al Score more transparent and helps to see if possible interfering factors in the image affect the result.

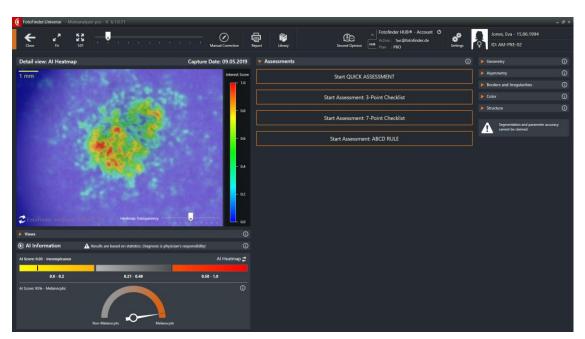


Fig. 14: Moleanalyzer pro view of Al Score and Heatmap



Use the slider below the detail view to adjust the transparency of the heat map view. Higher transparency will let you view the microimage behind it more in more detail.

You can leave the Heatmap view by clicking on one of the other views (cf. chapter 5.2.4 Views).



5.6.4 Al Score benign / malignant

The Al Score is designed to assess whether a lesion is potentially malignant. This is merely a confidence score of the algorithm, i.e. an assessment of the similarity to malignant lesions. The Al Score is based on comparisons with images of malignant skin tumors (Melanoma, Basal Cell Carcinoma, Lentigo Maligna, Squamous Cell Carcinoma, Actinic Keratosis). The Al Score makes no statement regarding the medical risk and does not assess the malignancy of the examined lesion.

Lesions with a high score should be observed with great attention.

- 0 0.49 inconspicuous, follow-up in a reasonable time
 - 0 0.2 inconspicuous
 - 0.21 0.49 further clarification necessary
- 0.50 1.0 conspicuous, should be observed with great attention



Fig. 15: Example view Al Score with selected Al display "Bar & Number"



Fig. 16: Example view AI Score with selected AI display "Bar only"

5.6.5 Al Score Melanocytic / Non-Melanocytic

This additional classifier supports to distinguish melanocytic lesions from non-melanocytic lesions. The pre-assessment score is requested along with the AI Score benign-malignant (cf. chapter 5.6.4 AI Score benign / malignant). The indication of the level of pigmentation can be used as additional information regarding the evaluation of the conspicuousness of a lesion and shall increase the performance of the user.



Abb. 17: Example view Al Score Melanocytic / Non-Melanocytic



5.7 Library

In the *Library* you will find a selection of already categorized lesions. You can use these for comparison purposes.

1. Click on Library.

Instead of the Assessments the Library will open.

- 2. Click on the name of one of the main categories to see the comparison images.
- 3. If necessary, click on one of the images to enlarge it.

This image will now be displayed in the size of the Detailed view:





Clicking on the Xat the top right corner you can close the enlarged view of the library image and return to the normal view of the library.

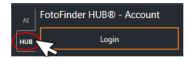


As long as the Library is open, the button in the menu bar is underlined with orange.

Click on Library again to close it.

5.8 The FotoFinder Hub® Account

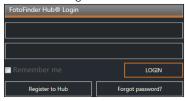
You can log in to your FotoFinder Hub® account with following these steps:



1. Click on *LOGIN* in the menu bar of the Moleanalyzer pro.

The login window will appear.

First time login:



2. At your first login click on *Register to Hub*.

3. On the following sheet fill out all the required information and then click on *Register*.

Shortly after, you will receive an email with a conformation link.

4. Click on this link to conform your registration.

Your registration is then complete.

Login with an already existing account:



2. Type in your account's email address, password and click on *LOGIN*. You are now signed in.

Marking the checkbox next to *Remember me* will save your login credentials and you will be automatically logged when starting the software.

Logging out from the FotoFinder Hub® account:



To log out from the FotoFinder Hub® click on this symbol. You can find the button in menu bar of the Moleanalyzer pro next to the FotoFinder Hub® when an account is actively logged in.



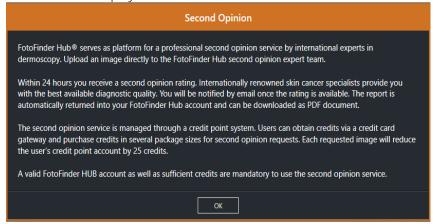
5.9 Second Opinion



Start the additional service Second Opinion by clicking on the adjacent button in the menu bar. A window will appear with the following option:



With clicking on the i-button in the upper right corner of the dialog box a detailed description of the function will be displayed:





The Second Opinion Service does not support private groups. Images cannot be uploaded to a private group.

You can choose between

- Request Second Opinion and
- Open Second Opinion

5.9.1 Requesting a Second Opinion

After clicking on *Request Second Opinion* and logging into your Hub® account the following window will appear (cf. chapter 5.8 The FotoFinder Hub® Account).

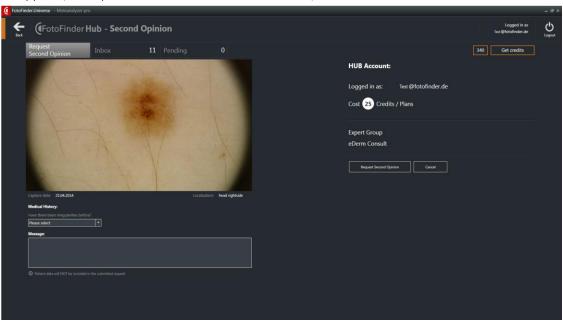


Fig. 18: FotoFinder Hub® - Second Opinion, Request Second Opinion window

Here you will see the chosen image again.

- 1. Below the image view, select if the patient had any irregularities before.
- 2. If necessary, enter your comment in the message field.
- 3. Click on *Request Second Opinion* to upload the data.

You will receive an answer within 24 hours.

On the right side of the screen, you will find information about your Hub® account:

- active user
- Second Opinion costs
- Expert Group

In the upper right corner, you can see your current credit balance in an orange frame and you also have the possibility to buy credits to restock your Hub* account.

You can access the Second Opinion service from the compare view (cf. chapter 5.10 Comparing images).

Both images will be sent for the evaluation.



5.9.2 Open Second Opinion

Select *Open Second Opinion* after logging in to your Hub® account and you will be taken straight to the overview of your already requested second opinions (cf. chapter 5.8 The FotoFinder Hub® Account).

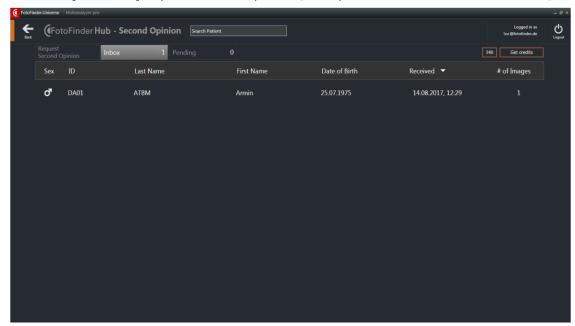


Fig. 19: FotoFinder Hub® - Second Opinion, overview of already requested cases

With a double-click on any patient you can open, print or save a pdf report.

You can navigate to different sections by clicking on one of these index tabs:

- Request Second Opinion and
- Pending

In the *Pending* sections you will find all your cases which have not yet received a Second Opinion.

5.10 Comparing images

In the Moleanalyzer pro image compare mode you can compare images from different capturing sessions.

For starting the Moleanalyzer pro image compare follow these steps:



- 1. Start the Dermoscopy module from the Desktop of your software.
- 2. Select the micro image that you want to analyze.



3. Open the image comparison by clicking on this button.

You are now in dermoscopy image comparison. By default, the most recent micro image is displayed as a comparison image. If necessary, with holding down the left mouse button you can pull another image from the SmartGallery into the preview window.



4. Start the Moleanalyzer pro image compare with clicking on the *Analyzer pro* button above the images in the menu bar.

The Moleanalyzer pro image comparison window will open.

€NOTE

The user interface of the *Dermoscopy* module is described in detail in the separate system manuals (e.g., *Dermoscopy* and *Automatic Total Body Mapping*).

At startup you will be asked for the calibration (cf. chapter 5.4 Calibration).

5.10.1 User interface



Fig. 20: Moleanalyzer pro Image Compare user interface

- 1 Menu bar
- 2 Patient data field
- 3 Change views(fields available twice)

- 4 Detailed baseline view
- 5 Geometric parameters
- 6 Detailed follow-up view
- 7 Al Score



5.10.2 The Geometry Parameter

On the right side of the screen you will find the geometry parameters that are calculated by the software:

- Area
- Perimeter
- Diameter
- Aspect ratio

The values are given for both images. In addition, the value of the change in percent is calculated.

€NOTE

A segmentation and parameter accuracy cannot be expected or claimed.

In case you would like to enlarge the detail views even further you can hide the Geometry parameter section:

•

1. Click on the Hide icon (see marked arrow in the figure below).

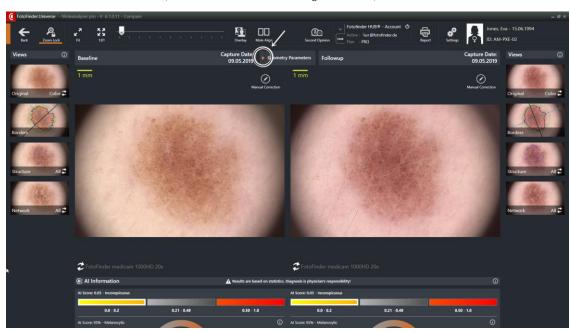


Fig. 21: User interface with enlarged detail views

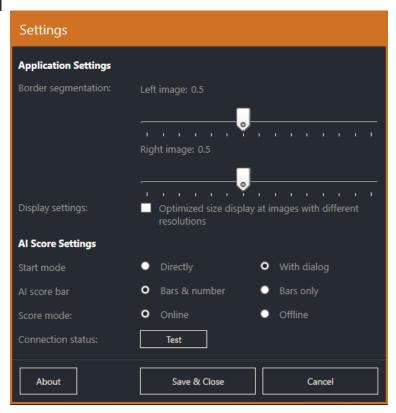
2. Click the arrow again to show the geometry parameters again.

5 Moleanalyzer pro

5.10.3 Image Compare settings



You can access the settings menu via *Settings*. Here you can store individual adjustments for Image Compare in Moleanalyzer pro.



Application settings

- Adjust the standard skin-lesion border segmentation by clicking on the scale.
- When comparing images with different resolutions, you can set a check mark at *Display settings*. This automatically adjusts the size display of the images.

Confirm your input with Save & Close.

Al Score settings (cf. chapter 5.3 Settings)



About

By clicking on About, you can call up further software information, such as the programme version.



Below you can see the explanations of functions that can only be found in the image comparison. Everything else is described in the user interface (cf. chapter 5.2 The Desktop).

5.10.4 Zoom Lock (SmartZoom)



The Zoom Lock function is set as default if you select the compare section. This function allows you to zoom in and move both images simultaneously. This also enables an objective comparison of the images.

Use the button at the top of the screen to zoom into the displayed images simultaneously. Without *Zoom Lock* both images can be displayed independently.

1. Click on the *Zoom Lock* button again.

Zoom Lock is deactivated and a second zoom control is displayed with the image display tools.

5.10.5 Aligning lesions

The *Mole Align* function adjusts the angle of both images. This will help you in the image comparison, if the images were not captured in the same angle.



1. Click on the *Mole Align* button.

After the first mouse click, the image on the right side will be rotated so that the display angle corresponds to the image on the left.

The button design in the menu bar also indicates this.

2. Click again on *Mole Align*.



After the second mouse click, the right image is rotated back to its original position, and instead the left image is rotated now so that the display angle matches to the right image.

The button design in the menu bar also again indicates this.

3. Click on the *Mole Align* button again to switch back to the initial view.

5.10.6 The Overlay function



The *Overlay* function visualizes lesion changes. The two images previously selected in the image comparison mode are laid on top of each other.



Fig. 22: Overlay mode



Click on *Match* to automatically adjust the lesion overlay positions against each other.

The Manual Adjustment feature allows you to manually adjust the overlay of the two images.

1. Click on Manual Adjustments.

At the bottom of the screen four slide bars will appear where you can adjust the position, orientation, and size:



2. Adjust the values as needed.

You will see the changes immediately in the detail view.



The size of the image should not be changed when images are captured with the same camera model.

3. Confirm the changes with OK.



Transparency

Above the preview image are the *Transparency* tools:



This function can be used to adjust the visibility of the front exposure from invisible (to the left on the bar) to opaque (to the right on the bar).

1. Move the pointer with the left mouse button.

The visibility in the preview image will be immediately adjusted.

It is also possible to let the transparency change run automatically:



1. Click on the *Play* icon.

The pointer on the scroll bar will now move continuously from left to right and back. Furthermore, an additional bar will appear on the right side for speed adjustment:



2. Adjust here the speed of the bar if necessary.



3. Click on *Pause*, if you want to stop the automatic scrolling.



Click on *Back* to return to the Moleanalyzer pro image comparison interface.

5 Moleanalyzer pro

5.11 Reports



You can use the *Report* button in the menu bar of the user interface to create various types of reports.

5.11.1 Embedding the practice logo

You can embed your own practice logo in the reports:

- 1. You will need the logo as a png file.
- 2. Save this file to C:\ProgramData\FotoFinder Systems\External as logo.png.

The logo will now be added to your reports.

5.11.2 Report types

Depending on where in the software you click on the report button, different types are available.

In the Moleanalyzer pro user interface:

Summary report:

- Patient information
- Three different views of the image:
 - Original image
 - Image with the Borders analysis
 - Image with the Structure analysis
- Image information
- Assessment according to the 3-point and 7-point checklist and, if applicable, the ABCD rule, including the Score
- Moleanalyzer Al Score (if it was requested)
- Comment section

3-Point Checklist Report

In the report only the results of the 3-point checklist will be shown.

7-Point Checklist Report

In the report only the results of the 7-point checklist will be shown.

ABCD rule Report

In the report only the results of the ABCD rule will be shown.

Al Score Report

In the report no assessment will be shown, instead the results of the

- Al Score and
- Geometry

In the Moleanalyzer pro image comparison:

Original images

- Patient information
- Original baseline and follow-up images
- Image information
- Geometry parameters
- Moleanalyzer Al Score (if it was requested)



Segmented images

- Patient information
- Baseline and follow-up images with border segmentation
- Image information
- Geometry parameters
- Moleanalyzer Al Score (if it was requested)

6 Malfunction and troubleshooting

6.1 Error handling

This section contains information on troubleshooting. If the system does not start functioning correctly, then please call the support team on: 0049 8563 97720-45 or send an E-mail to: support@fotofinder.de.

Remote support over the Internet (remote control of your computer) is a great help in this situation. If you wish to use it, please download the Teamviewer software from the following site: www.fotofinder.de/support. Then inform us of your ID and the password shown in the Teamviewer software during the course of the support call. Please also name your system / license holder.

6.2 Problems with the software

6.2.1 Software error: The software is no longer functioning correctly

■ Close the software, restart the computer and run the software again

If the software error persists or the software is still not functioning correctly, please contact the support team.



Appendix



(FotoFinder

EU - KONFORMITÄTSERKLÄRUNG

EU - DECLARATION OF CONFORMITY

FotoFinder Systems GmbH Industriestraße 12 84364 Bad Birnbach Deutschland/Germany

Hersteller / Manufacturer: Adresse / address:

Julian Mayer, Authorized Officer

Bad Bimbach, 18:04:2024

Diese Entlarung bt gülftig, bis sie durch eine neue Version ersetzt wird / This declaration is valid until supersaded by a new version.

DE:MF-000007084

Single Registration Number (SRN): Benannte Stelle / Notified Body

TDV SQD Product Service GmbH Rdierstraße 65 80339 München / Munich

510 115802 0002 Zertifikats-Nr. / Certificate No. Wr entlären hiermit in eigener Verantwortung, dass nachstehendes Produkt

FotoFinder Moleanalyzer pro Artikelnr. / Product code: FFS013920

Version: 6.1

Zweckbestimmung / Intended Use:

Optionally, the software uses a condistional neural network (CNN) algorithm to generate a risk score (M Score). This reanded for the assessment of clinically altypical outaneous pigmented lesions with one or more clinical or historica Al Store indicates the similarity to malignant lessons by generating a value, which is assigned to different consgones. In addition, the software generates a score which indicates the similarity to melanocytic dair lessons. This assessmen obtain additional information for a decision to biopsy. FotoFinder Moleanalyzer pro should not be used to confirm a used 3 Point Checklist, 7 Point Checklist or ABCD rule to classify lesions (Asymmetry, Bordens, Color and Structures) dinical diagnosis of melanoma. The Moleanalyzerr pro offers assessments by indicating parameters for the cornm FotoFinder Moleanalyzer pro is a software, which is intended to be used in addition to FotoFinder Universe. It is supports dematologists in the classification of different types of skin cancer. The accuracy of the algorithm is comparable to the performance of dematologists.

(Annex VIII MDR) der Risikoklasse / of risk closs:

<26015845MAP001XZ Basis UDI-DI / Bosic UDI-DI: den Grundlageoden Anfordesungen gemäß Anhang I der Medizinprodukteverordnung (EU) 2017/745 entspricht / meets the essential requirements of the regulation (FU) 2017/745

Konformitätsbewertungsverfahren / Conformity assessment

(EU) 2017/745, Annex IX Chapters i & III

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