

Mole View User Manual



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1. Getting started

To start the MoleView software, ensure the dongle is plugged into the USB port before **double click** on the MoleView icon.



The software will open displaying the default anonymous patient file.

Important

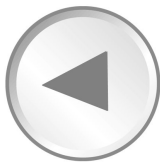
Any images that have been captured without creating any patient records will be displayed here.

1.1. Logging out

To log out of MoleView **Click** on **File** and then select **Exit** from the drop down list or **Click** on the **Close** button in the top right hand corner of the MoleView window.

2. Navigating MoleView

The following buttons can be found in the MoleView tool bar and are used to navigate through the software.



Back button - Allows the user to navigate back through previously viewed pages.



Forward button - Allows the user to navigate forwards.



Home button - Returns the software to the Image manager page.



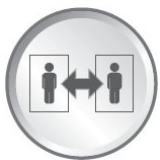
Take a contact SIAGraph - Initialises the contact SIAscope handset.



Take a non contact SIAGraph - Initialises the Non contact camera.



Mannequin button - Displays the full mannequin page for the patient file being viewed.



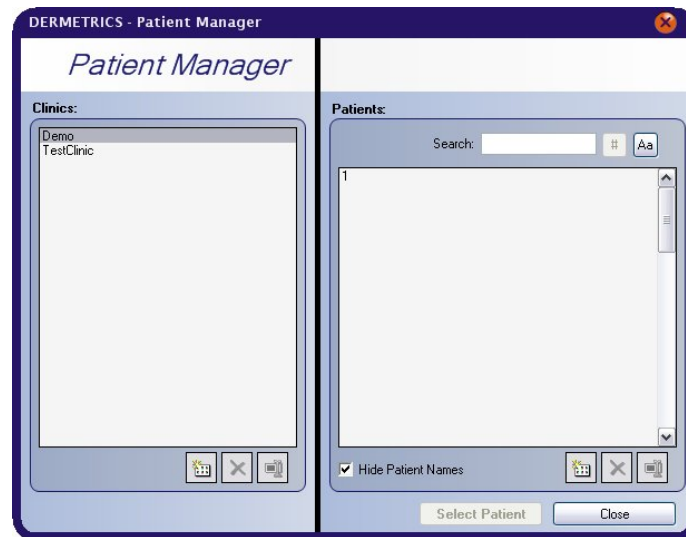
2nd opinion - Opens the 2nd opinion software module.



Patient Manager button - Opens the patient manager.

3. Patient Manager

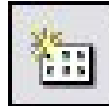
To open the Patient Manager **Click** on the **Patient Manager** button in the tool bar.



3.1. Clinics

To select a clinic from the list displayed **Click** on the clinic name. The patient list for the clinic will be updated in the right hand window.

To add a clinic to the software **Click** on the *Add* button located at the bottom of the Clinic list.



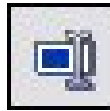
This will display a details page for the new clinic.

The screenshot shows a window titled "DERMETRICS - Patient Manager - Clinics". It has a header bar with the title "Patient Manager - Clinics". The window contains a form labeled "Clinic Details:". The form has the following fields: Name, Phone 1, Phone 2, Fax, Email, Address 1, Address 2, Address 3, City, State / County, Zip Code, and Country. At the bottom of the form are two buttons: "Add" and "Cancel".

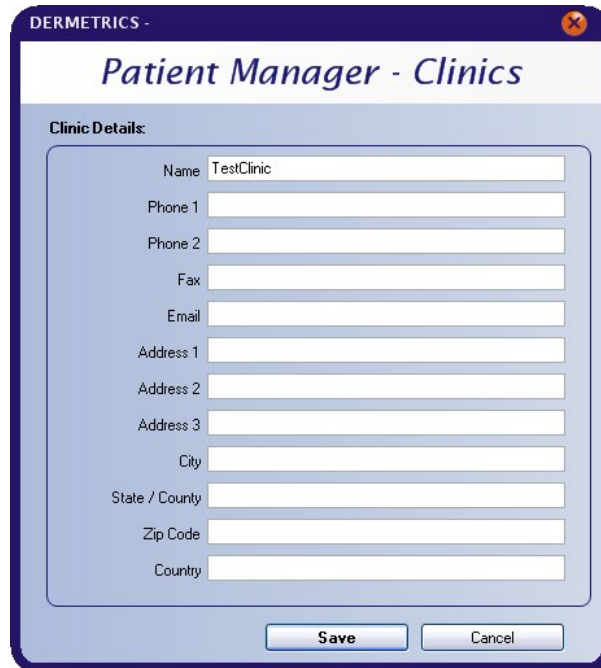
The name of the clinic should be entered into the name field box. For completeness the rest of the in-

formation can be entered but this not necessary by default. Once complete **Click** on the *Add* button.

To make any changes to a clinic's details **Click** on the **Modify** button.



This will display the clinic details. Make any changes needed and **Click** on the *Save* button at the bottom of the page to keep the changes.



To delete a clinic from the software **Click** on the **Delete** button.



Warning

Deleting a clinic will remove associated data to it permanently.

3.2. Opening a Patients records

Patient records can be found and opened in the following ways:

- By **Clicking** on the name or number from the list of patients displayed and then **Clicking** on the **Select Patient** button.
- By **Clicking** inside the **Search** box and entering the name or number of the patient until it is highlighted in the list. Then **Click** on **Select patient** button.



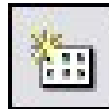
Note

For details on using the the patient name and number function go to the [patient filter](#) section.

3.3. Adding a new patient to a clinic

Open the **Patient Manager** and select the clinic to be used.

Click on the **Add** button under the list of patients.



This will open a new patient details window.

Enter information about the patient on each of the sections **General**, **Contact** and **medical**.



Note

To navigate between the sections **Click** on the heading of each of the tabs

When the information has been entered **Click** on the **Add** button.

Note

If the New patient is not needed then **Click** on the **Cancel** button which can also be found in the bottom right hand corner of the patient manager. This must be done before using the Save button. If a patient has to be deleted then go to the section [Deleting a patient](#).

3.4. Displaying and searching for patients by name or number

To switch between displaying patient names and numbers check the box **Hide Patient Names** that can be found at the bottom of the patient list.



Important

If a patient number has not been entered then the message No Patient Number will be displayed in the list.

Searching for a patient can be done by using either the Patient name or number.

The buttons that control this selection can be found at the top of the patient list next to the heading patients

To display patients by their number **Click** on this button.



To display patients by their name **Click** on this button.



Once the search format has been set, **Click** inside the text box at the top of the patient list and enter either the name or number. The patient that matches the criteria will be highlighted in the patient list. To open the patient file **Click** on the **Select Patient** button.

3.5. Updating patient details

Click on **File** and **Open patient** from the drop down list. This will display a list of all the patients associated to the clinic. Select the patient whose details need to be updated by **Clicking** on their name. This will unlock the three Tabs to the right and allow the patients details to be updated. Once the details have been updated **Click** on the **Save** button at the bottom of the page. This will save the details to the database.

3.6. Deleting a patient

Open the **Patient Manager** and select the clinic that contains the patient.

Find the patient by using the methods described in the section [Opening a patients records](#).

Once the correct patient has been found **Click** on the **Delete** button at the bottom of the Patients section.

MoleView will then ask for confirmation that the patient records are to be deleted.



Warning

The delete function will remove any records associated to the patient permanently

4. Mole View

Mole view provides the user with the ability to take and view a contact SIAscan. Before using the SIA-scope it is important that the **Instructions for use** manual has been fully read as it contains important information regarding health and safety.

4.1. Contact SIAscan

This function allows a contact SIAscan to be taken of the lesion. This technique will display a colour, melanin, dermal melanin, blood and collagen view of the area being investigated.



Important

To obtain the best possible image using the SIAscope it is important to be aware of the following:

- **Clean the lesion area** - before commencing a scan using the SIAscope it is important to clean the lesion area and in particular make sure that any make up is removed from the area.
- **Apply matching fluid** - It is important to apply matching fluid to the area that is being scanned. Matching fluid can be obtained from Astron Clinica.



Warning

Do not apply matching fluid to open wounds

- **Cleaning the nose cone** - Before and after each patient examination clean the glass surface that is in contact with the patient skin with an Isopropyl wipe.
- **Hold the handset still** - Whilst taking a scan using the SIAscope it is important to keep it still until the software has completed the scan.

4.2. Taking a SIAscan

Click on the **Take a SIAscan** button located in the tool bar.

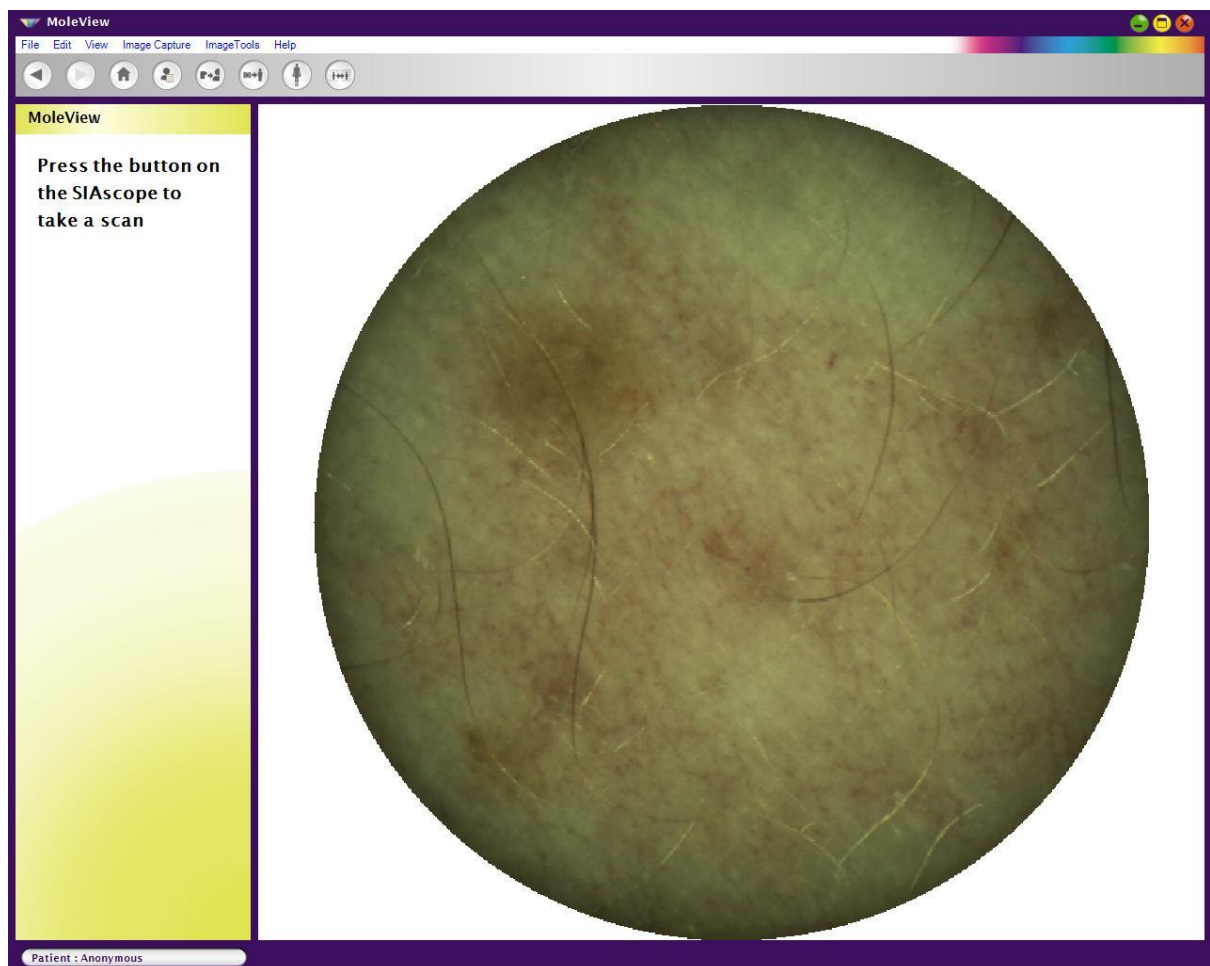


Apply matching fluid onto the area that is going to be scanned.

Warning

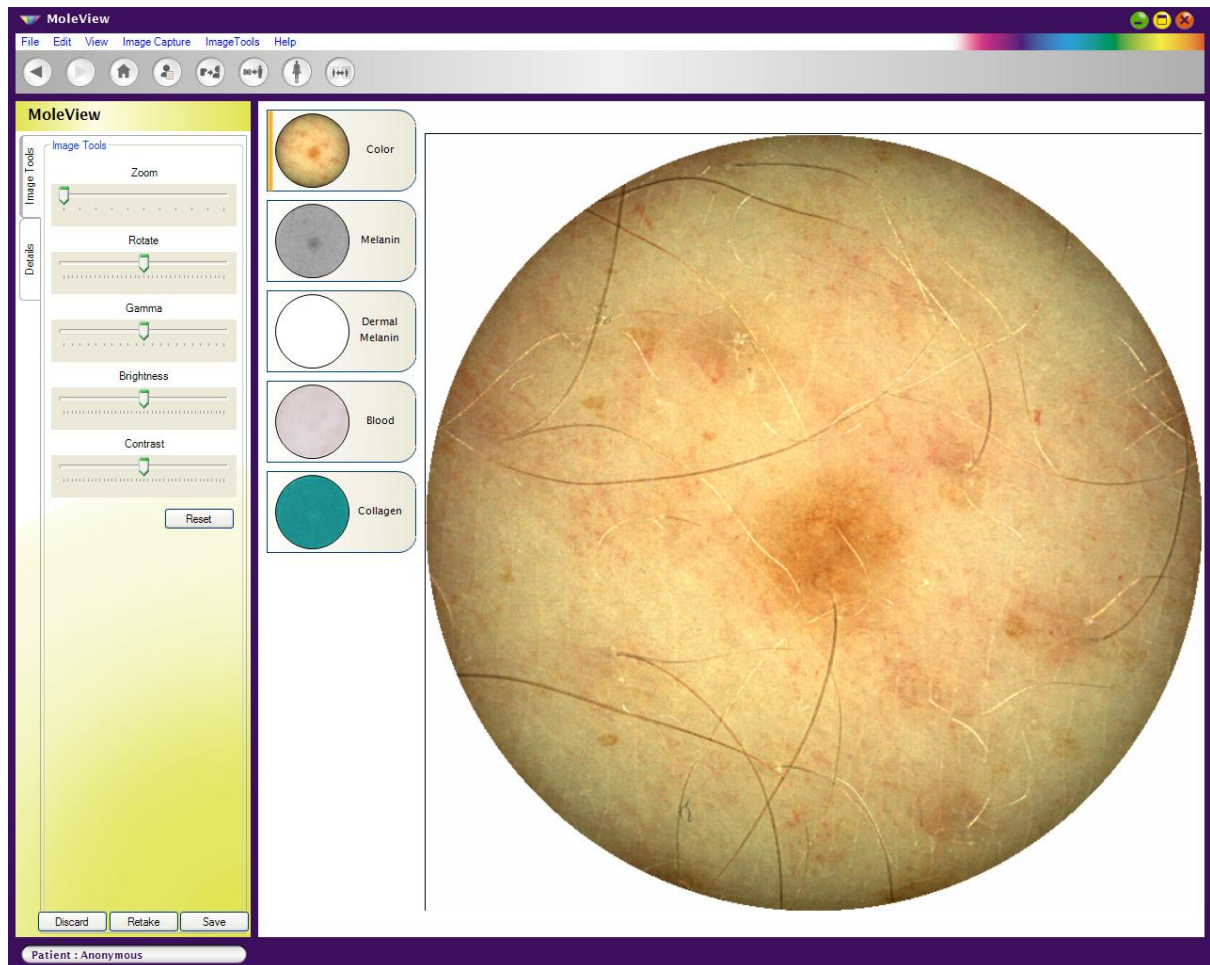
Do not apply matching fluid to open wounds

When the SIAscope has initialised, position it onto the lesion that is going to be scanned. A live image will be displayed on the screen and this can be used to centralise the lesion.



Press the button on the top of the SIAscope to start the scanning process.

Once the image processing is complete the contact SIAscan will be displayed on the screen.



The colour image will be displayed as the default image. To view the melanin, dermal melanin, blood and collagen views **Click** on the appropriate image displayed to the left hand side of the main image.

4.3. Image tools

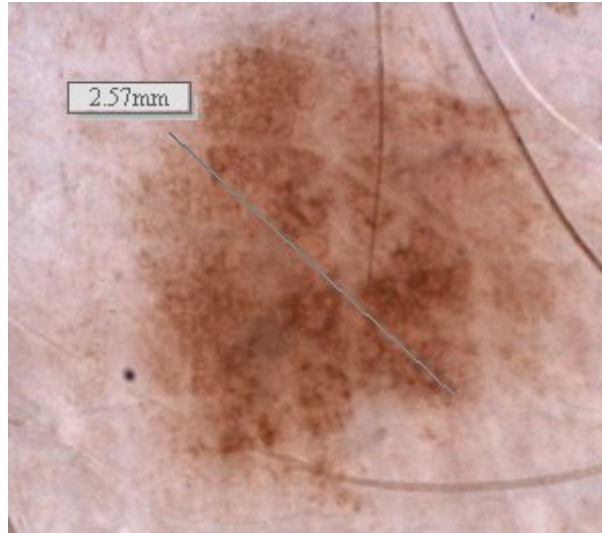
The image tools are located down the left hand side of the window. The settings can be adjusted by **Clicking** on the slider bar and dragging it to the desired position.

- **Zoom** - Zooms in on the displayed image. To centralise the view when using the zoom function, **Click** and hold on the contact SIAscan image. This will allow the image to be positioned so that a specific area within the image can be central in the view.
- **Rotate** - Rotates the image to the desired position.
- **Gamma** - Adjusts the overall brightness of the image being viewed.
- **Brightness** - Adjusts the luminosity of the components within the image.
- **Contrast** - Adjusts the contrast to make distinguishing objects in the image easier.

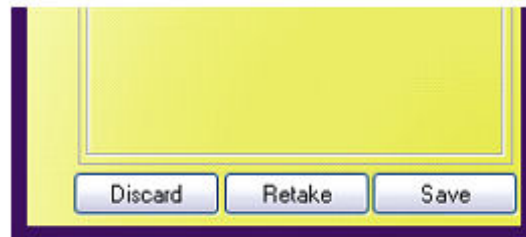
To see the scan details or to add notes about the lesion, **Click** on the **Details** tab and this will display the details window.

4.4. Measuring tool

It is possible to measure the size of a lesion or feature on the contact SIAscan. To use this feature, first select the **Details** tab under the **Image tools** section. Then **Click** and drag across the image and release. This will create two points on the image and it is this distance that is measured and displayed on the image. To measure another feature on the image move the mouse pointer to the new position and **Click** and repeat the process.



At the bottom of the **Image tools** are three buttons **Discard**, **Retake** and **Save**



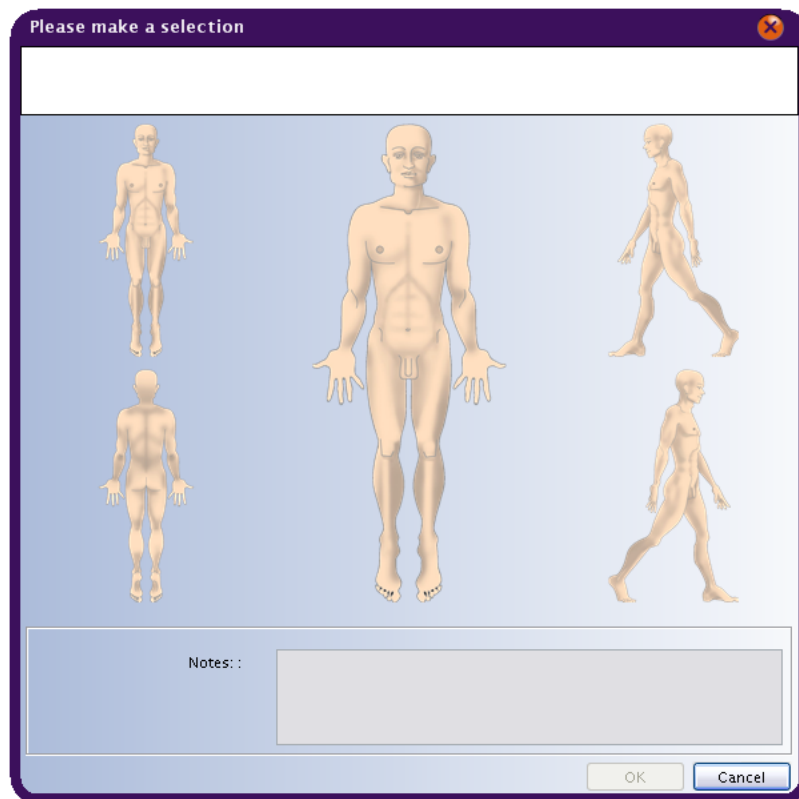
Save - To save the image and any details to the patient database **Click** on the **Save** button. The mannequin image will be displayed and a lesion location will have to be identified on the mannequin to continue with the scan.



Note

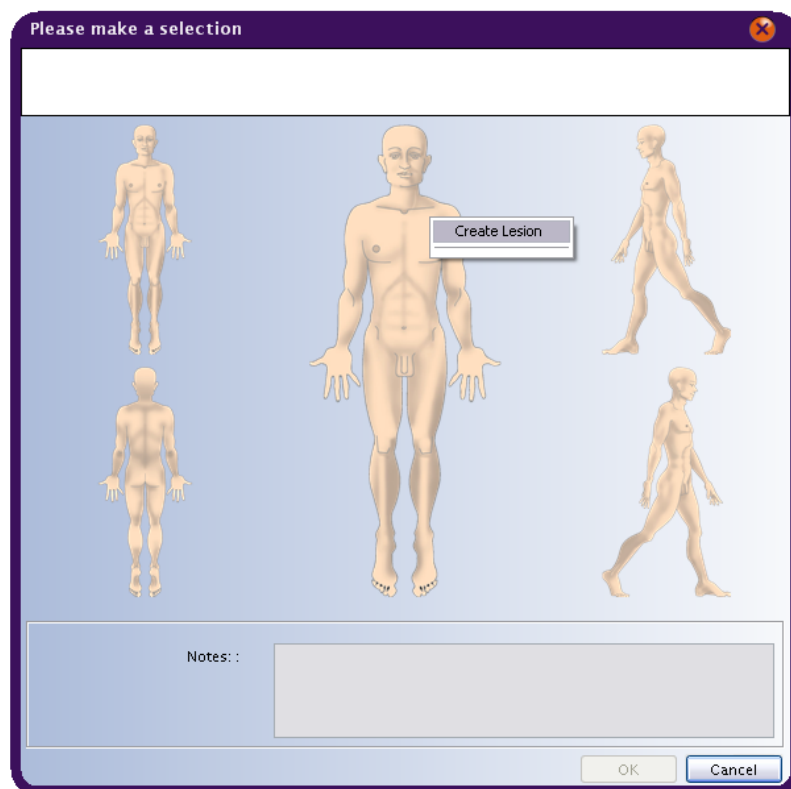
If a scan is being associated to a lesion that has already been identified then the select a lesion window will not appear. This is because the location already exists and the software will associate the scan to this location. This will occur in the following instances:

1. A lesion is already selected from the Mannequin image on the Mannequin page and then the Take contact SIAscan process button is chosen.
2. A lesion image has been selected from the image manger page and then the Take Contact SIAscan process is chosen.
3. An already identified lesion is selected from a Non Contact SIAscan and then the Take Contact SIAscan process is chosen, **Clicking** on **Save** will return the software to the Non contact SIAscan.



To switch the mannequin view **Click** on the view of the mannequin required and will be displayed in the center.

Lesions locations are created by positioning the mouse cursor on the mannequin in the correct position for the lesion. **Right clicking** will display the message **Create a new lesion** and **Zoom**.



To position a lesion onto the Mannequin **Click** on **Create new lesion**. This will display the new lesion on the Mannequin. If it is difficult to identify the exact location on the Mannequin select the Zoom function first. Select the amount zoom required from small, medium and large. Once the enlarged man-

nequin is displayed **Right click** on the mannequin in the correct location and select **create new lesion** , this will display the new lesion on the mannequin.



Note

If the lesion location is not in the correct place it can be moved by using the Mannequin utility. Please refer to the Mannequin section of the MoleView User Manual for reference.

When the lesion location has been created the Notes box will be enabled. If notes are to be associated to this lesion **Click** inside the box and enter the text. When the notes have been entered **Click** on the **Save** button, the software will return to the Home page.

If notes do not need to be entered then **Click** on the **Save** button and the software will return to the Home page.

To exit the Select a Lesion mannequin page without saving any details **Click** on the **Cancel** button. The software will return to the contact SIAscan just taken.

Discard - If the image that has been taken is not going to be saved, **Click** on the **Discard** button on the left hand side of the window.

- To take another scan using the SIAscope **Click** on the **Retake** button located on the left hand side of the window. This will initialise the SIAscope; ready to take another image.

4.5. Viewing existing contact SIAscan

This function should be used if contact SIAscans are already been stored in the database.

Open the clinic that the patient scans have been associated to.

Find the patient whose contact SIAscan is to be viewed, **Click** on the name and **Click OK**.

All of the patient images will be displayed in this window. Select the contact SIAscan to be viewed by **double clicking** on the image.

This will display the contact SIAscan.



Note

the SIAscan viewing window can also be reached by **Clicking** on the image to be viewed and then **Clicking** on **Image Tools** and then selecting **Contact SIAscan** and **View SIAscans** from the list displayed.

A Contact SIAscan has additional tools available other than those mentioned in this manual. These include the ability to compare images in parallel, overlay and in 3 dimensions. To learn how to use these tools please refer to the **Dermetrics** user manual.

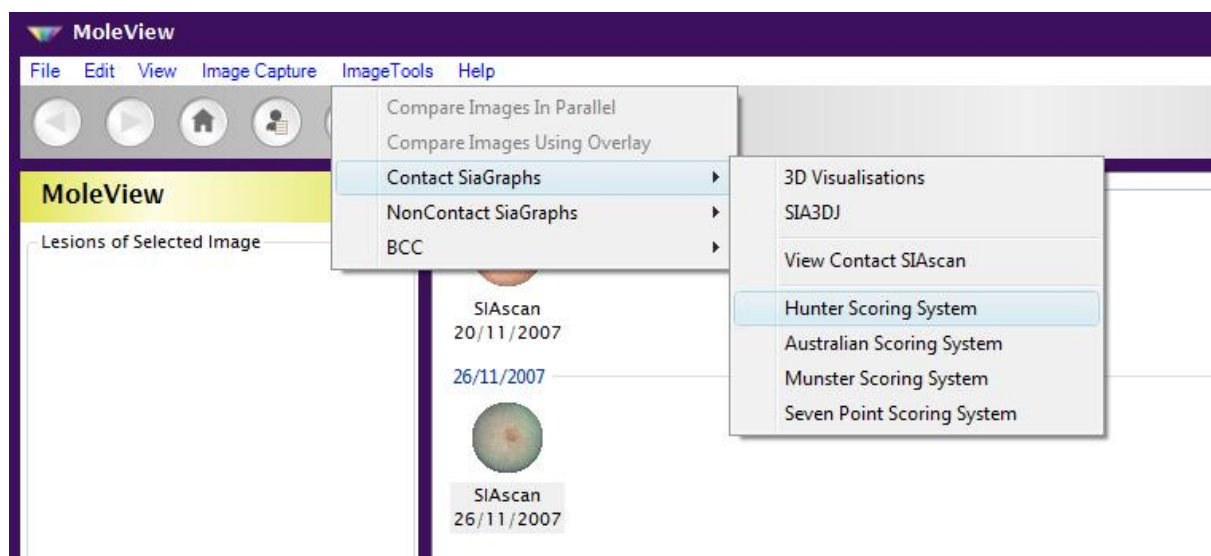
4.6. Score SIAscan

MoleView offers the following four different Scoring systems that can be used to assess a lesion:

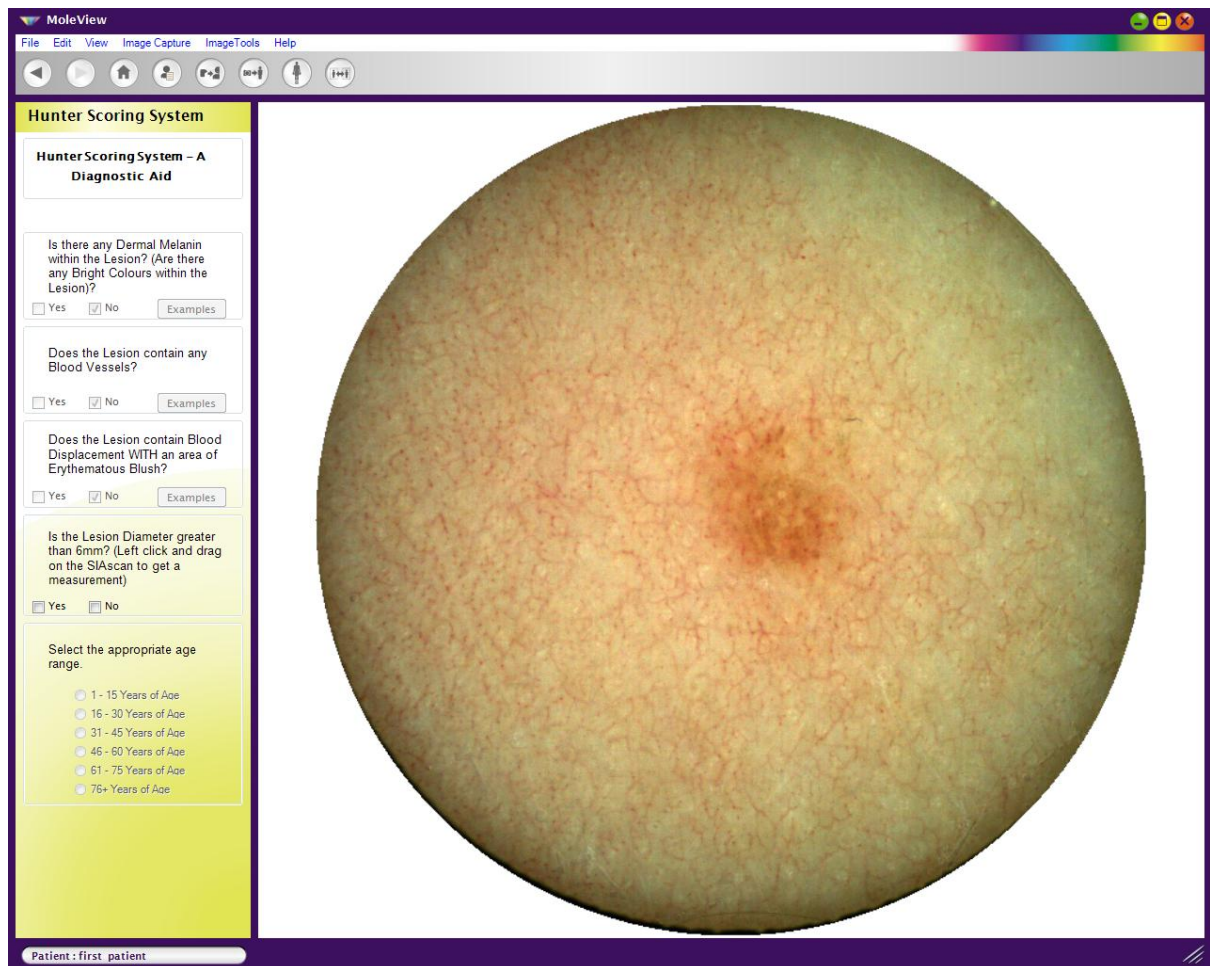
- **Hunter Scoring System** - Scoring system used in our primary care product, MoleMate.
- **Australian Scoring System** - Scoring system developed in Australia to help evaluate SIAscans.
- **Munster Scoring System** - Scoring system developed in Germany to help evaluate SIAscans.
- **Sevenpoint Checklist** - Standard scoring system used with a Dermatoscope.

Identify the SIAscan to be scored by either **Clicking** on the image from the patient data base or by having it displayed on the screen using the SIAscan viewer.

Click on the heading **Image Tools>SIAscan** and then from the drop down list select **Score SIAscan**.



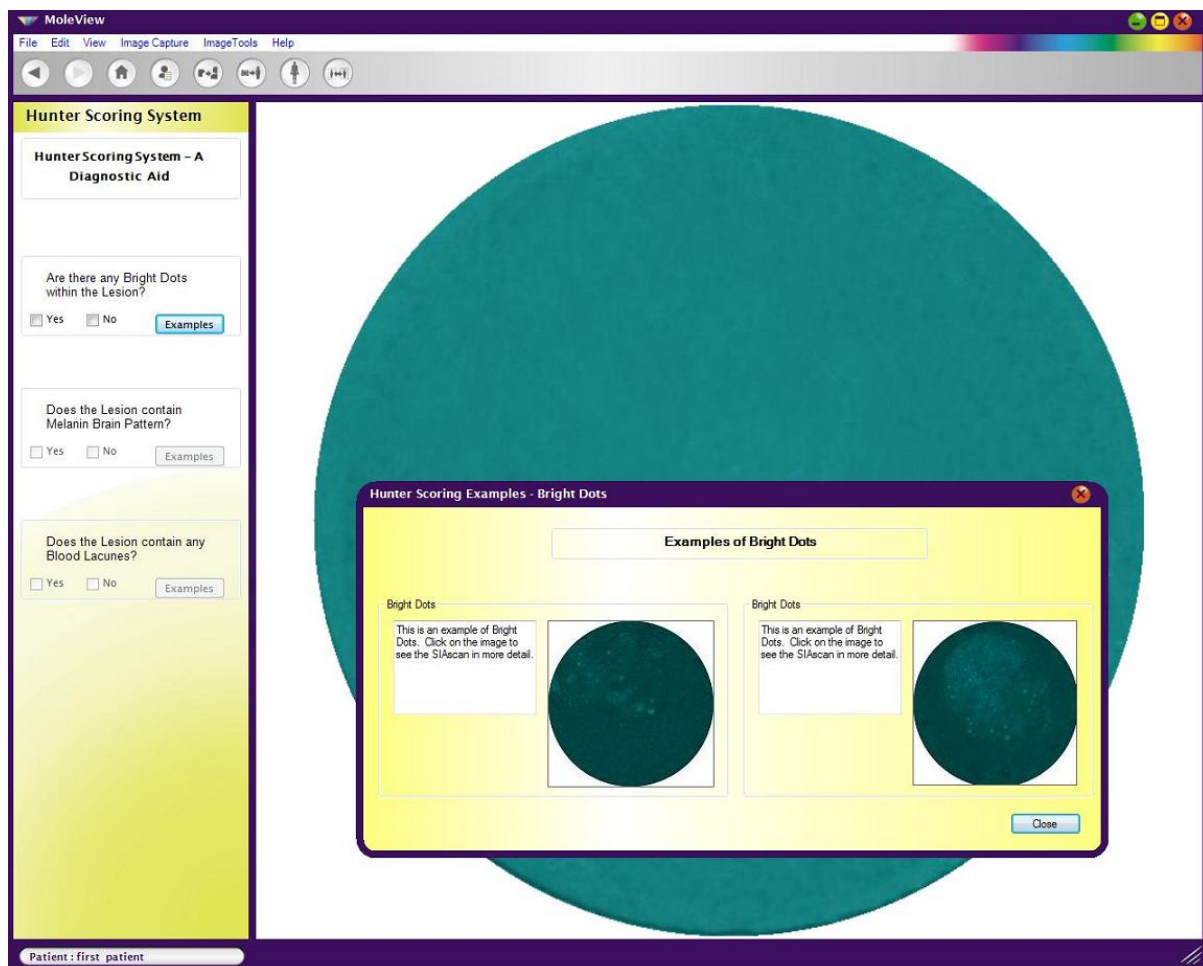
The scoring system will be displayed along with the image selected.



On the left hand side of the page is the scoring tool bar. It provides a diagnostic aid to the user by asking questions about the lesion being displayed.

To use the Scoring Systems, assess each question in turn and indicate whether the feature is visible on the SIAscan. The software will automatically display the chromophore that the feature will be visible on.

When using the Hunter Scoring System there are example SIAscans available that display the feature being asked for in the question.



Once all questions have been answered a recommendation will be displayed at the bottom of the screen.

5. SIAscan 3D tools

5.1. Viewing SIAscan using 3D

Open the clinic that the patient scans have been associated to.

Find the patient whose SIAscans are to be viewed, **Left click** on the name and **Left click** on the **OK** button.

All of the patient scans will be displayed in the image manager. Open the contact SIAscan to be viewed by **double click** on the image.

This will display the contact SIAscan viewing window.

When presented with the contact SIAscan image, **Left click** on the **Image tools** heading and from the tool bar and select **ContactSIAscan**. From the drop down menu, select from **3D visualisations** or **SIA3DJ** by **Left clicking** on the heading.

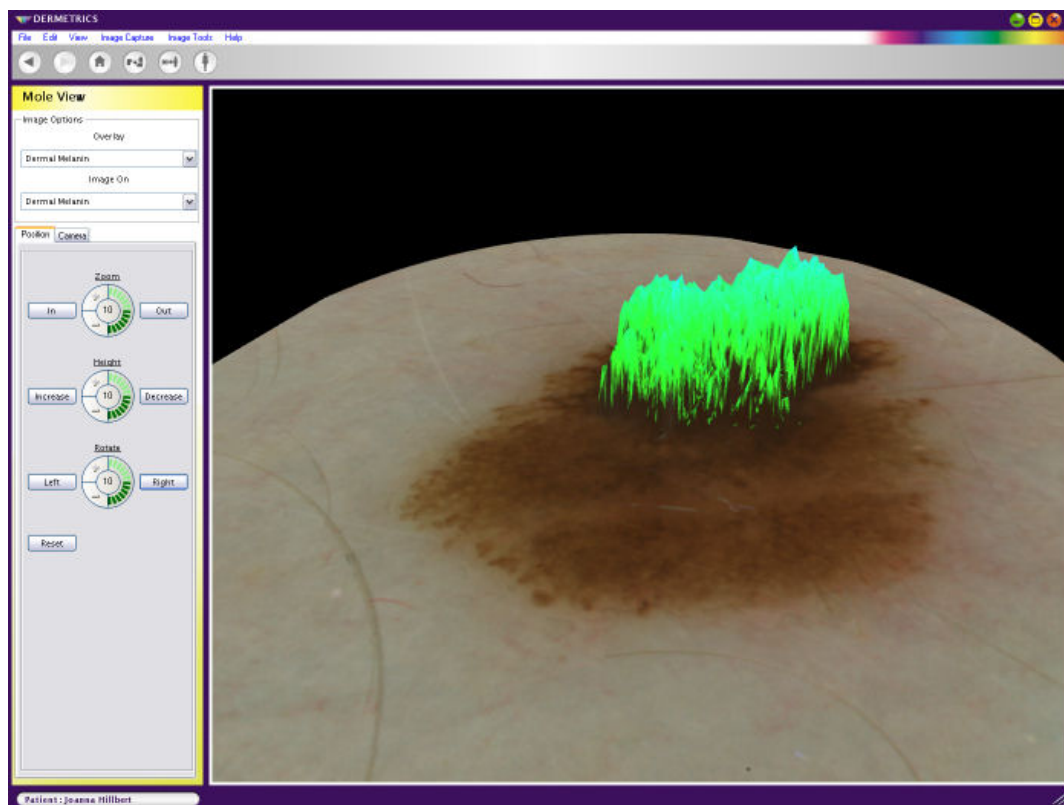


Tip

The contact SIAscan viewing window can also be reached by **Left clicking** on the image to be viewed and then **Left clicking** on **Image Tools>Contact SIAscan** and then select **View Contact SIAscan** from the list displayed.

5.2. 3D visualisations

This tool allows the contact SIAscan to be viewed in 3D. This is useful because it displays the distribution and concentrations of Melanin, dermal melanin, blood and collagen throughout the lesion.



The image can be manipulated using the tool bar that is located on the left hand side of the screen.

5.2.1. Image Options

Overlay and Image on – The SIAscan chosen from the overlay box will be displayed over the 3D graph chosen from the image on box.

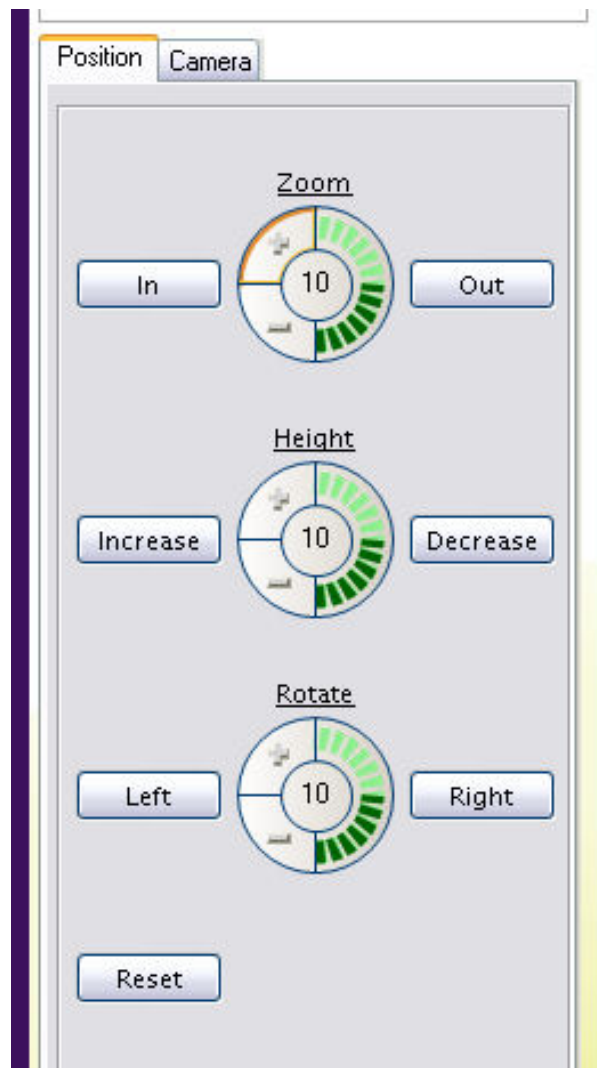
To select a view **Left click** on the arrow located at the end of the box and select from the drop down list the SIAscan to be used.

Tip

The colour image is not a SIAscan so it does not have any 3D data and as such is always displayed as a flat image.

5.2.2. Positional options

The positional settings tools allow the image to be moved so that the best possible view of the 3D structure of the lesion is visible.



Tip

The speed of the **Zoom**, **Height** and **Rotate** can all be adjusted by **Left clicking** on the **+** or **-** buttons displayed for each function. The speed must be selected before clicking on the function required.

- **Zoom** – To Zoom in on the wire diagram view of the lesion area **Left click** on the **In** button. To zoom out on the wire diagram view of the lesion area **Left click** on the **Out** button. To stop the function at any time **Left click** on the selected function again.
- **Height** - To increase the height that the wire diagram is being viewed from **Left click** on the **Increase** button. To decrease the height that the wire diagram view of the lesion is being viewed from **Left click** on the **Decrease** button. To stop the function at any time **Left click** on the selected function again.
- **Rotate** – To rotate the wire diagram view **Left click** on either the **Left** or **Right** buttons. To stop the function at any time **Left click** on the selected function again.
- **Rotate right** - This tool rotates the image continuously to the right. **Left click** on the button to start the function. To stop the function **Left click** on the rotate right button again.

The angle that the lesion is being viewed from can also be changed. To do this **Left click** on the *Camera* tab, this is located next to the position tab.

The top image shows the elevation view of the angle and the bottom view shows the plan view of the viewing position.

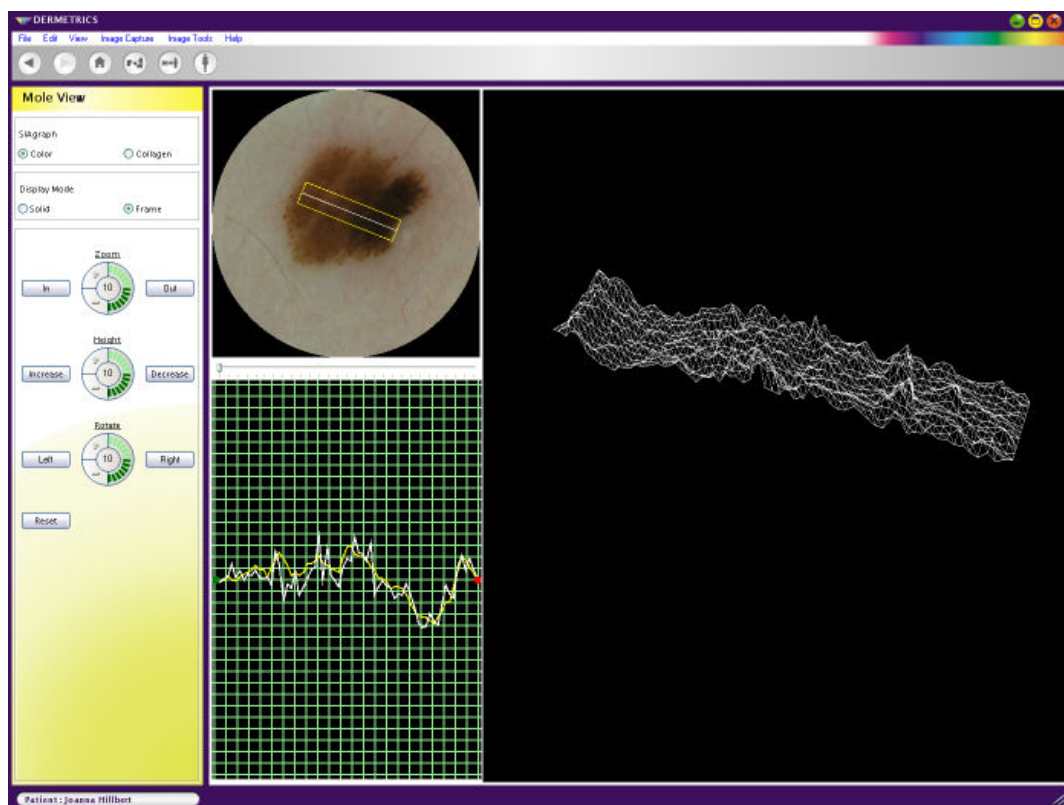
To change the angle **Left click** on the bottom image and drag. This will draw a green line on the image to represent the direction of the view.

Tip

Always drag away from the position that is to be viewed

5.3. SIA3DJ

To view a SIA3DJ image **double click** on the SIAscan image that is to be viewed from the image manager. Now **Left click** on **Image Tools** then **Contact SIAscan** and select **SIA3DJ** from the list displayed.



On the screen the colour image that has been selected is displayed. On the image a yellow box can be seen. This identifies the area that has been selected to be viewed using the SIA3DJ function.

The area can be defined by positioning the mouse pointer on the image and **Left clicking** and holding down the mouse button. Now drag the pointer over the image and the box will be displayed in its new position. The width and height of the box are determined by the user.

Below the colour image is a slider bar and this adjusts the width of the box only once it has been positioned on the image.

The graph below the slider bar shows the cross section of the area selected.

The image on the right hand side of the window displays a wire diagram of the cross section. By positioning the mouse pointer over the wire diagram, **Left clicking** and holding with the mouse button the image can be manipulated to the desired position by moving the mouse.

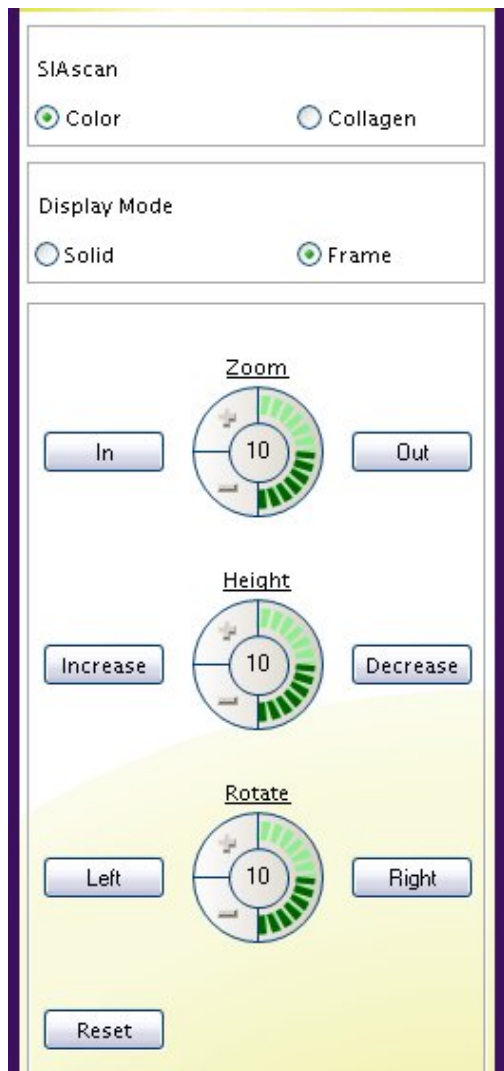
The wire diagram can also be displayed in solid form. To change to this view **Left click** on the wire

diagram; it will then be displayed as a grey solid model of the collagen view.

There is a tool bar located down the left hand side of the window which allows the manipulation of the cross section being viewed.

5.3.1. SIA3DJ tools

- The SIAscan that is being displayed can either be viewed as the colour view or as the collagen view. To change the view **Left click** on the specific radio button under the **SIAscan** heading.
- The wire diagram view of the chosen cross section can also be viewed in solid form. To change to the solid view **Left click** on the **Solid** radio button located under the heading **Display Mode**.



Tip

The speed of the **Zoom**, **Height** and **Rotate** can all be adjusted by **Left clicking** on the **+** or **-** buttons displayed for each function. The speed must be selected before clicking on the function required.

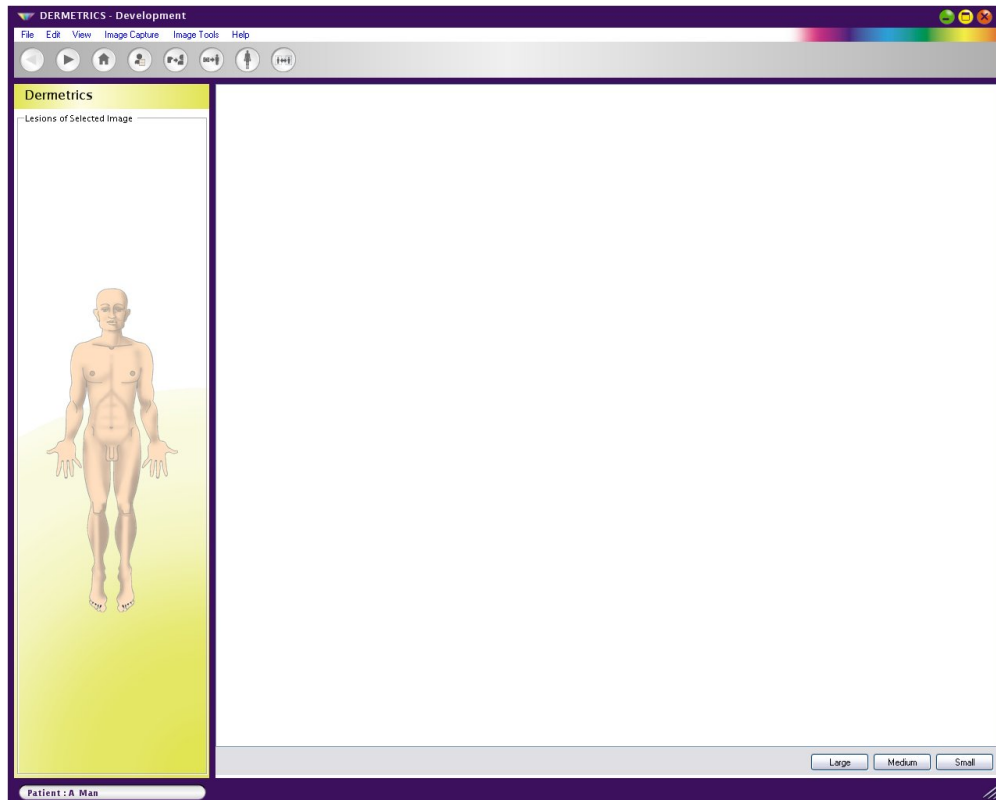
- **Zoom** – To Zoom in on the wire diagram view of the lesion area **Left click** on the **In** button. To zoom out on the wire diagram view of the lesion area **Left click** on the **Out** button. To stop the function at any time **Left click** on the selected function again.

- **Height** - To increase the height that the wire diagram is being viewed from **Left click** on the **Increase** button. To decrease the height that the wire diagram view of the lesion is being viewed from **Left click** on the **Decrease** button. To stop the function at any time **Left click** on the selected function again.
- **Rotate** – To rotate the wire diagram view **Left click** on either the **Left** or **Right** buttons. To stop the function at any time **Left click** on the selected function again.
- **ResetRotate right** - This tool rotates the image continuously to the right. **Left click** on the button to start the function. To stop the function **Left click** on the rotate right button again.

6. Image Management

When a patient has been selected from the patient manager all of the images associated to that particular patient will be displayed in the Image manager page. This page allows all of the patient images to be viewed and organised.

This is the Image manager page.



In the bottom left hand corner of the screen the patients name will be displayed.

6.1. Organising images stored in the database

In the bottom right hand corner of the page are 3 buttons. By **Clicking** on **Small**, **Medium** or **Large** the images can be displayed in three different sizes. When the **Large** setting is chosen an image will have to be selected before it appears in large format.



Note

Once the image display size is chosen it can only be changed by selecting a new display size. The MoleView navigation buttons have no control over this functionality and as such will not change the display size. This means that the Home page will display the images as set up.

Right click ing on an image will display an option window. The options displayed are:

- **Arrange icons** – Selecting this allows the user to display the image by visit, lesion ID or type of image. Selecting these options will group the images together depending on the choice made.
- **Properties** – Displays the images type plus the date and the time at which they were taken. The file name can be changed by deleting the original displayed in the text box and renaming it and then clicking on OK.
- **Copy** – will copy the image to another application such as Word or PowerPoint. It will not allow images to be copied within the MoleView database.

- **Delete** – this will remove the selected image from the database.
- **Print** – allows the image selected to be printed to any connected printer.



Note

A contact SIAscan has five images to be printed. When the print preview is displayed it is possible to change the number of lesions printed per page.

6.2. Viewing images stored in the database

Double clicking on the image that is to be viewed and it will be displayed on the screen.

To identify the general location for the image on the patient's body, **Click** on the image and a location will be displayed on the mannequin.

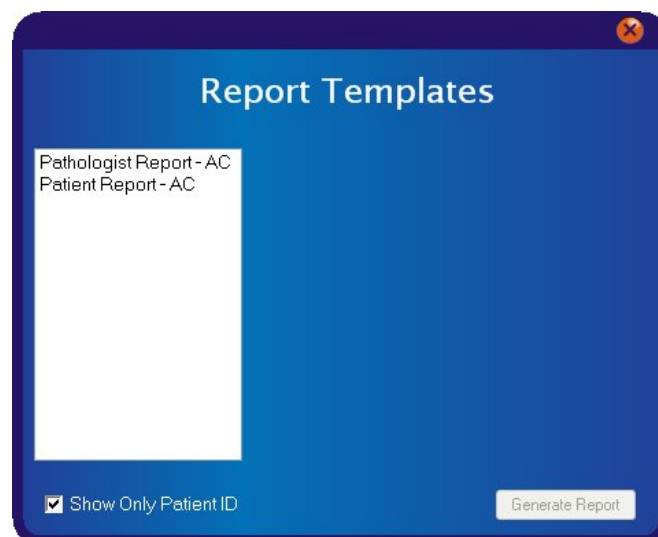
6.3. Generating Reports

The MoleView tool for Generating Reports creates a PDF format document using information about the patient and any lesions that have been selected to be included. Multiple lesions can be selected for both Contact and Non Contact SIAscans.

The report is created as either a Pathologist Report or a Patient Report. The Pathologist Report is differentiated from the Patients by providing more detail with larger SIAscan images fitted onto one page and a scale underneath each image. The patient report is more general and has smaller SIAscan images.

To generate a report of either type begin by selecting the SIAscan or SIAscans required by **Clicking** on the image. To select multiple images **Click** on the first image. Then hold down the **Ctrl** button on the keyboard then **Click** on the next image. Continue this process until the lesions required are selected.

Next **Click** on **File** from the tool bar and choose **Generate Report** from the list. The Generate Report wizard will appear on the screen.



Select the type of report to be generated by **Clicking** on the text. This will highlight it grey and display a description of what will be included. As default the patient ID is the only part of the patient information that is displayed in the report. To display the patient name in the report uncheck the **Show Only Patient ID** box. Then **Click** on the **Generate Report** button.

The **Save Report** window will be displayed. Select a location to save the report to and create a **File Name** that it will be saved as. Once complete **Click** on the **Save** button.

The report will be created and displayed on the screen. The report can then be utilised by either being attached to an email for review by someone else, printed out or stored on the PC.

7. MoleView utilities

7.1. Mannequin

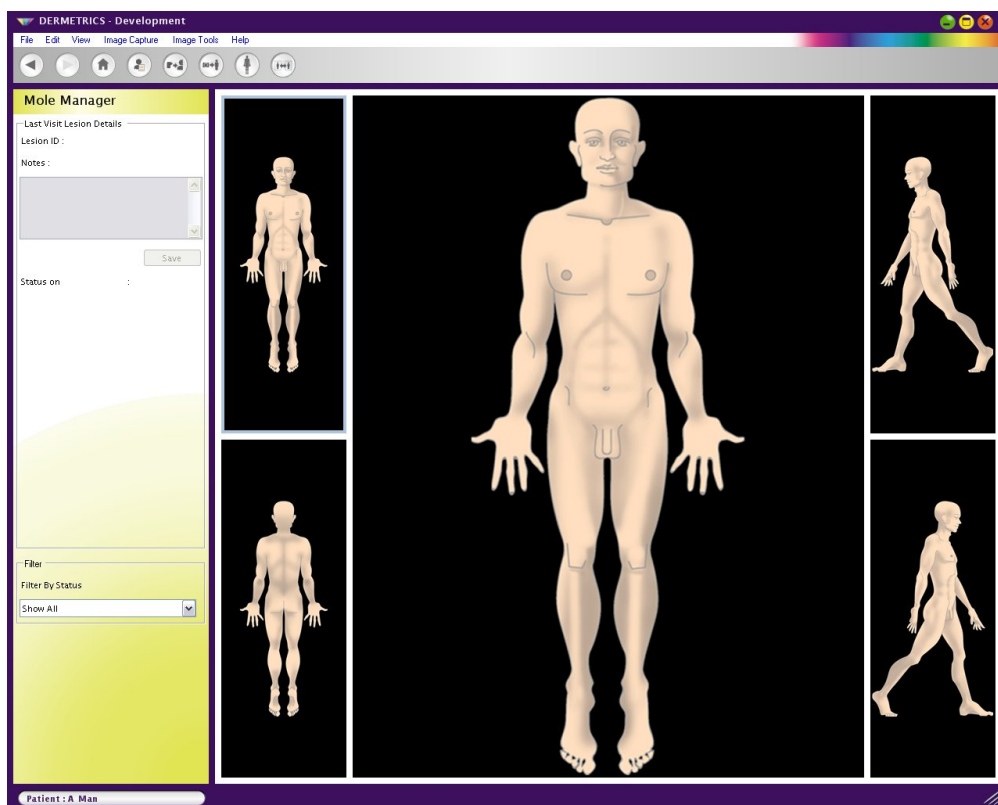
The Lesion Locator uses 4 mannequin images to give rough estimations of where lesions are physically located on a patient. It also allows digital images to be linked to the lesion on the mannequin so that they can be recalled in one easy step.

Important

For every Lesion that requires some form of digital photography, a physical location must be provided to enable links to be made between all images of that Lesion.

To view the Lesion locator page first select a patient. Next **Click** on the **Mannequin** button located in the tool bar.

This is the full Lesion Locator page. It displays all 4 body profiles together.



Located on the right hand side of the page are five mannequin images. The mannequin displayed in the centre is the view that has been selected and is the only view that is active.

To select either the front, back, left or right hand views **Click** on the smaller mannequin image and it will be displayed in the middle.

To display details about a particular lesion on the mannequin view, **Click** on or close to the green lesion locator that is required. This will change it to red.

Details about this lesion will be displayed on the left hand side of the page.

7.2. creating a lesion location

Lesions are created by positioning the mouse cursor on the mannequin in the correct position for the lesion. **Right clicking** will display the pop up menu **Create a new lesion**, Click on **Create Lesion** from the menu, the lesion will be displayed on the mannequin.

Important

If the lesion location is not in the correct place it can be moved. To do this, follow the section [moving lesions on the Mannequin](#).

Last visit lesion details

The details of the selected Lesion are displayed down the left hand side of the window.

A text box is provided under the heading **Notes** this allows information to be recorded about the lesion. To enter text into this box, first select the lesion that the notes are to be associated to by **Clicking** onto or near the green lesion locator, this will turn it from green to red to identify that it has been selected.

Click inside the notes box and then enter any text that is to be associated to that lesion. Entering the text into the box will automatically unlock a Save button just beneath the right hand corner of the text box. Once the text entry is complete **Click** on the **Save** button to commit it to the database.

Filter - The filter function can be set to display the lesions associated to the patient by the status that had been set when the lesions were saved.

To change the Filter by status setting, **Click** on the arrow in the box **Filter by status** and choose from the drop down menu which is to be used. Once the selection has been made the screen will be updated.

7.3. Deleting a lesion location

To delete a lesion location, select the lesion on the mannequin and then **Click** on the **Delete** button. You will be prompted to ensure that the correct lesion is to be discarded.

Important

Deleting a lesion location will also delete all links to any images that were associated to it.

7.4. Moving lesions on the mannequin

Click on the **Mannequin** icon from the tool bar. This will display the mannequin page associated to that patient.

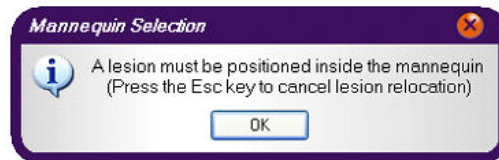
Important

Ensure that the correct patient details are being viewed before moving any lesions.

Right click on or near the lesion locator that is going to be moved, this will turn it from green to red to identify that it has been selected. It will also display a window showing a list of options, select **Move the selected lesion**. Using the mouse move the cross hair to the new location and **Click**, this will re-locate the lesion to the new position.

Important

Clicking on the screen whilst the cross hair is not positioned on the mannequin will produce the following message.

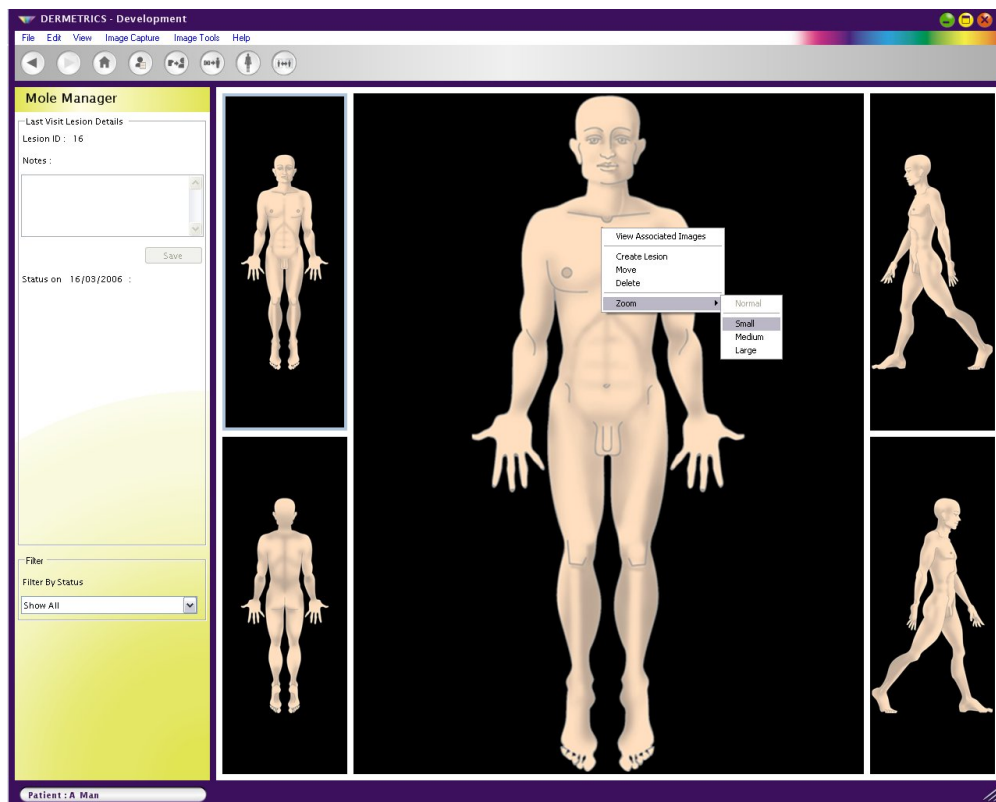


Note

Pressing the **Escape** key on the keyboard at any time during relocating a lesion will exit the re-location function.

7.5. Zoom a particular location on the Mannequin

To zoom in on a mannequin location position the mouse cursor on the centre mannequin in the location required. **Right clicking** will display a pop up menu. **Click** on **Zoom** and then choose either **Small**, **Medium** or **Large**. This will scale the mannequin appropriately and display it in the center.



Note

The normal zoom factor will restore the mannequin to its original size. It will be disabled until either of the other zoom factors has been selected.

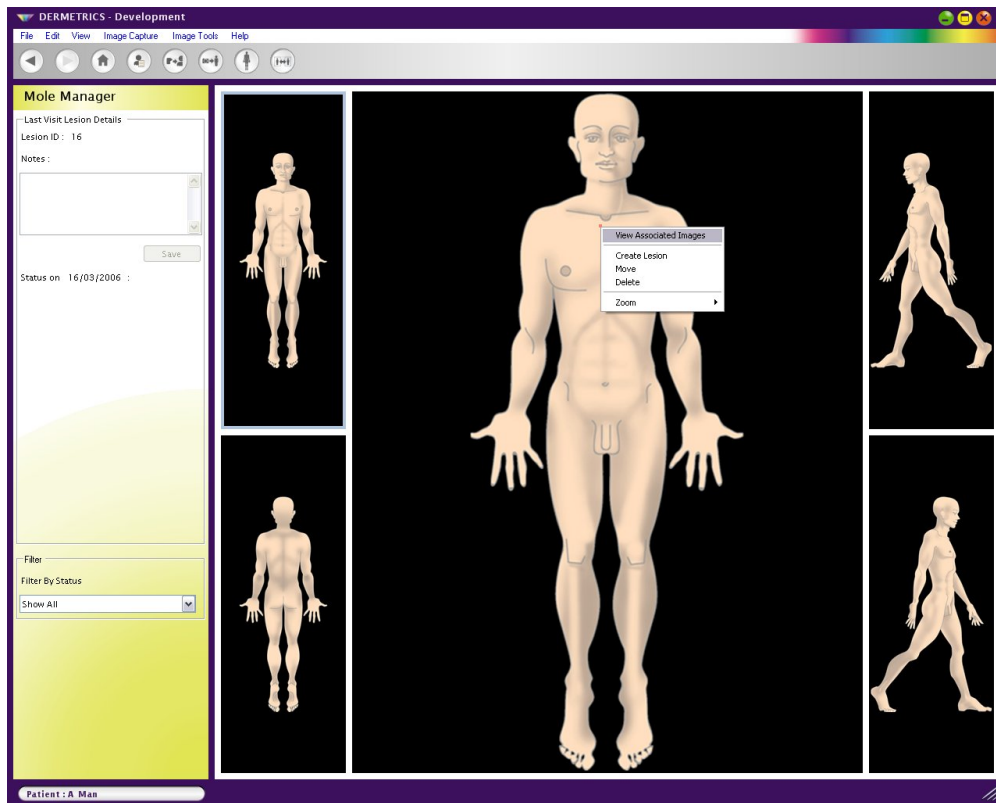


Note

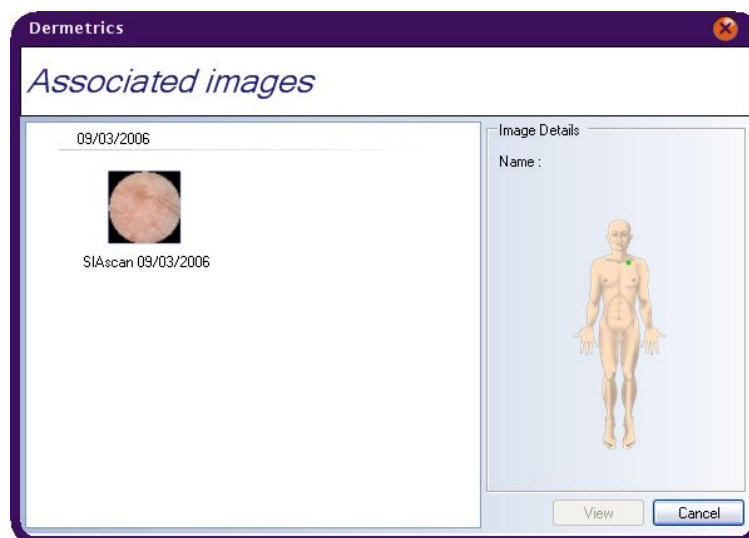
Using the **Back Button** from the tool bar will not return the mannequin to the original zoom setting but only return the software to the **Image Manager** page.

7.6. Viewing images linked to the lesion location

Images that have been linked to the lesion location on the mannequin can be viewed by **right clicking** on or close to the lesion this will turn it from green to red to identify that it has been selected. It will also display a window showing a list of options, select **View associated images**.



This will display any images that have been taken in relation to the lesion in a selection window. To View an image **Click** on the image to be viewed and then **Click** on the **View** button located at the bottom of the window. This will display the image in the appropriate viewing window. **Clicking** on **Cancel** will display the mannequin image again.

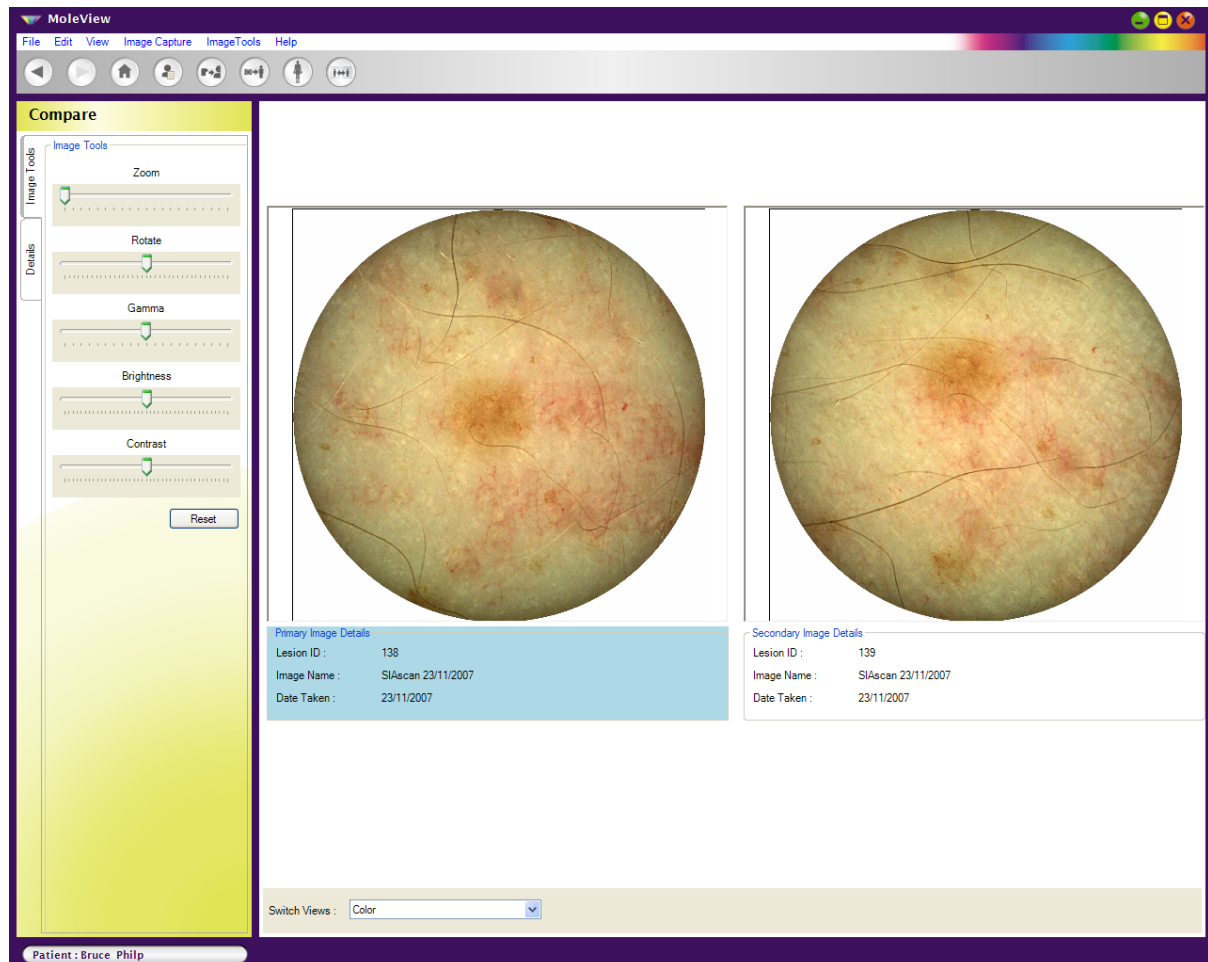


7.7. Compare images in parallel

This MoleView utility allows the comparison of two images taken from the patient database.

From the image manager select the two images that are to be compared by **clicking** on the first image, then push and hold down the control button on the keyboard and select the second image by **clicking** on it. Both images will now be highlighted blue.

Now **Click** on the **Image tools** button in the tool bar and select **Compare images in parallel**. The images will be displayed side by side in the window.



The blue shadowing over the image details indicates which lesion is currently selected.

Directly underneath the images is a box called switch views. This will display the SIAscopy images for the ones currently being viewed. To switch the view **Click** on the arrow at the end of the box and from the drop down menu select the chromophore to be used.

The image tools are located down the left hand side of the window and can be accessed by **Clicking** on the **Controls** tab. The settings can be adjusted by **Clicking** on the slider bar and dragging it to the desired position.

- **Zoom:** Zooms in on the displayed image. To centralise the view when using the zoom function, **Click** and hold on the image and this will allow the lesion to be moved.
- **Rotate:** Rotates the image to the desired position.
- **Gamma:** Adjusts the gamma setting of the image being viewed.
- **Brightness:** Adjusts the brightness of the image
- **Contrast:** Adjust the contrast between the darkest and lightest objects in the image.

Details about the lesion can also be viewed and edited by **Clicking** on the **Details** tab.

MoleView

File Edit View Image Capture ImageTools Help

Compare

Image Tools

Details

SIAScan Details

Name: SIAScan 23/11/20

Date Acquired: 23/11/2007

Lesion ID: 138

Notes:

Changes since last visit:

☐ Change in size

☐ Change in shape

☐ Change in color


☐ Inflammation

☐ Crusting / Bleeding

☐ Sensory change

☐ Ulceration

Status: Benign



Primary Image Details

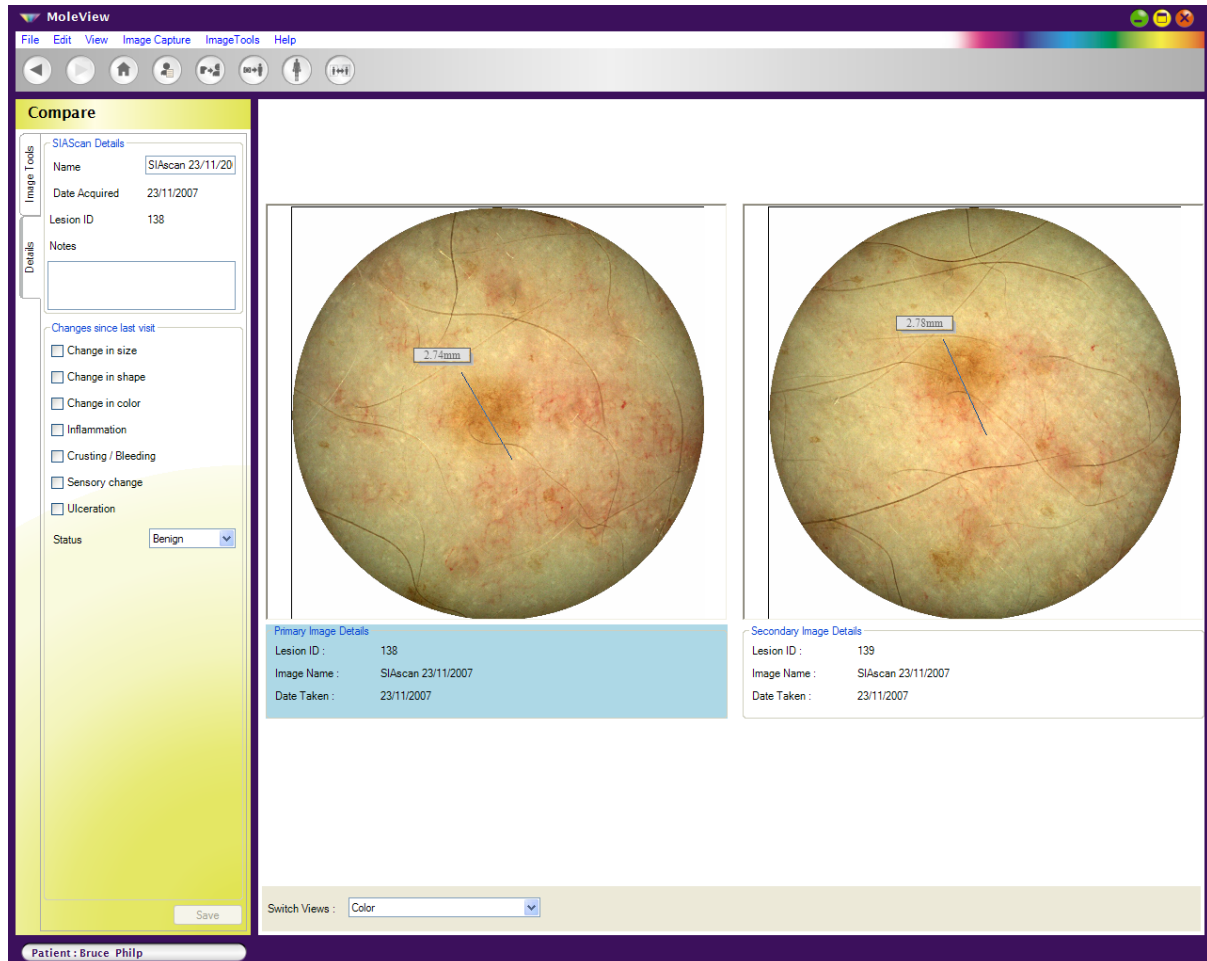
Lesion ID : 138

Image Name : SIAScan 23/11/2007

Date Taken : 23/11/2007

7.8. Using the measuring tool when comparing images in parallel

It is possible to measure the size of a lesion or feature when comparing a Contact SIAscan. To use this feature first select the **Details** tab under the **Image tools** section. Then **Click** and drag across the image and release. This will create two points on the image and it is this distance that is measured and displayed on the image. To measure another feature simply move the mouse pointer to the new position and **Click** and repeat the process. It is possible to display a measurement on both Contact SIAscan images by repeating the process on each of the images.

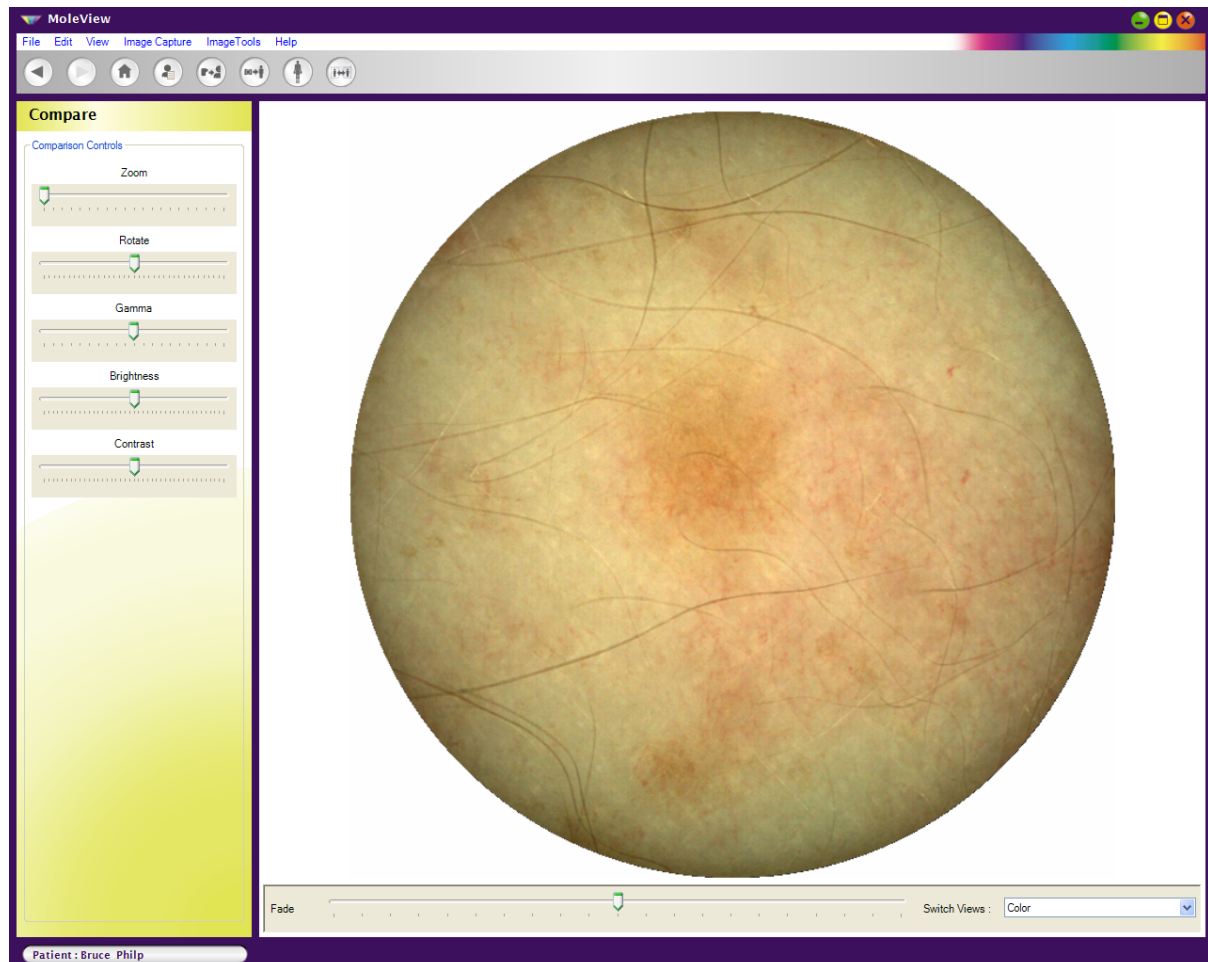


7.9. Compare images in overlay

This MoleView utility allows an image to be overlaid on top of another.

First select the two images to be used from the patient data. To do this **Click** on the first image so that it is highlighted. Now press and hold down the control key on the keyboard and **Click** on the second image.

Now **Click** on the **Image tools** button in the tool bar and select **Compare images in overlay** from the list. This will display the images in one window already overlaid.



Directly underneath the images the tools **Fade** and **Switch** views can be found.

- **Switch Views** - This will display the SIAscopy images for the ones currently being viewed. To switch the view **Click** on the arrow at the end of the box and from the drop down menu select the chromophore to be used. Once selected both images will be changed to the selection made. To change the selection back choose another view from the drop down menu.
- **Fade** – the fade function will allow the images to be faded in and out to display the required image on the screen. To make adjustments **Click** and hold down with the mouse on the slider to fade the top image in and out.

A selection of tools is available under the heading **Comparison controls**, which is located on the same page.

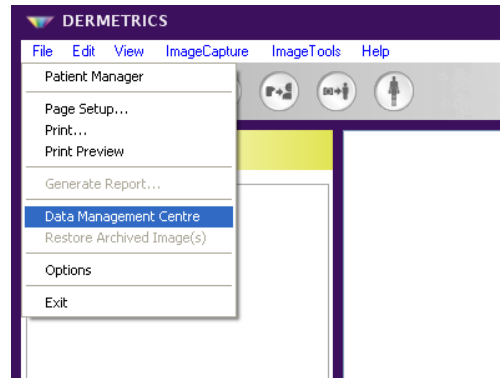
- **Zoom**: Zooms in on the displayed image. To centralise the view when using the zoom function, **Click** and hold on the image and this will allow the lesion to be moved.
- **Rotate**: Rotates the image to the desired position.

- **Gamma:** Adjusts the gamma setting of the image being viewed.
- **Brightness:** Adjusts the brightness of the image
- **Contrast:** Adjust the contrast between the darkest and lightest objects in the image.

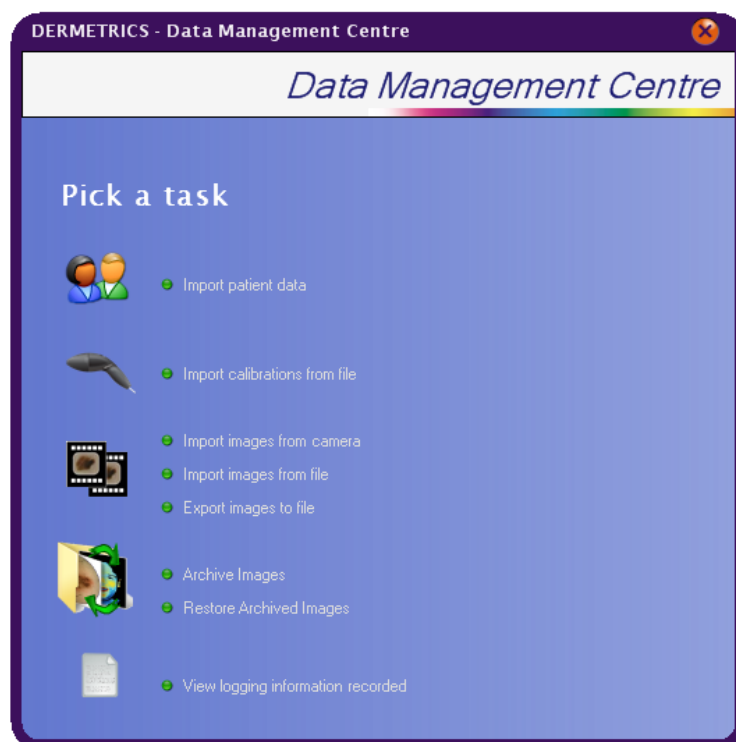
8. MoleView Archive Tool

8.1. Opening the Archive Tool

To create an archive or to restore archived data, begin by selecting the Data Management Centre from the File Menu.



The **Data Management Centre** will be displayed on the screen.



8.2. Creating an Archive

To create a new Archive, **Click** on the **Archive Images** Option. The **Archive Clinic** window will be displayed.



To begin creating a new archive **Click** on the required clinic from the **Select Clinic** box. The chosen clinic will be highlighted.

Next enter an name for the archive in the **Archive Name** box.

Tip

Remember to use a meaningful name for the archive so as to aid retrieval at a later date.

Set the Date ranges that will be archived.

Select a directory (Folder) that the archive will be saved to. To select a directory, **Click** the button labelled '...', this will display a window to select the directory to archive the images to. Any previously created archives for the selected clinic will also be shown within this window.

When all the above information has been supplied and the values are valid, the **OK** button will be enabled. **Clicking** the **OK** button will check if there are any non-archived images within the date range for the selected clinic, if there are an archiving status bar will be displayed.



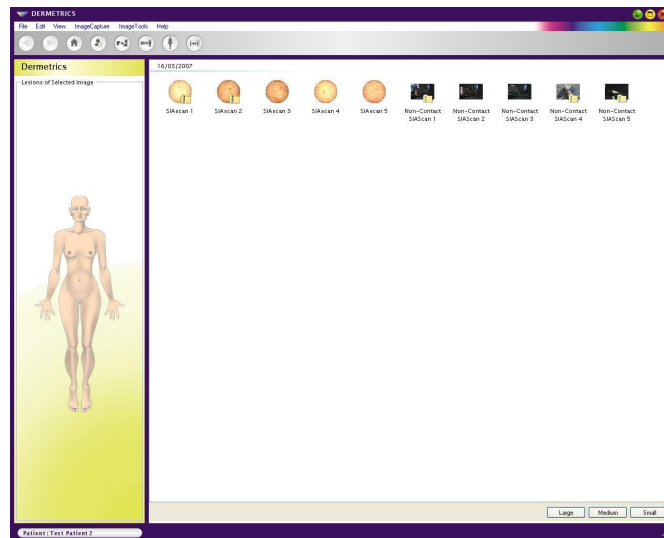
Clicking the **Stop** button on this bar will cancel the archive after the current image has been archived.

Warning

Clicking on the Stop button may cause the archive to be partially complete

8.3. Identifying Archived Images in MoleView

Archived images can be identified in MoleView by the addition of a folder icon overlaid on them. Archived Images can not be viewed in any way other than seeing the small thumbnail. If an archived image needs to be viewed in any way, then the image needs to be restored first.

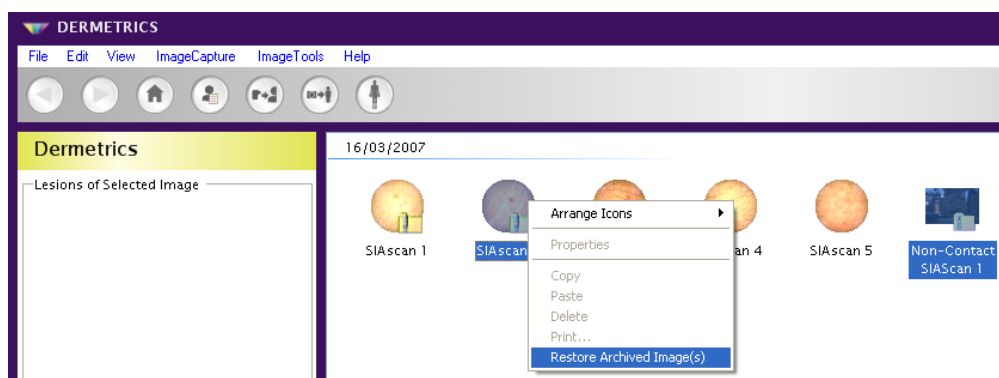


This image shows the SIAScans enlarged.



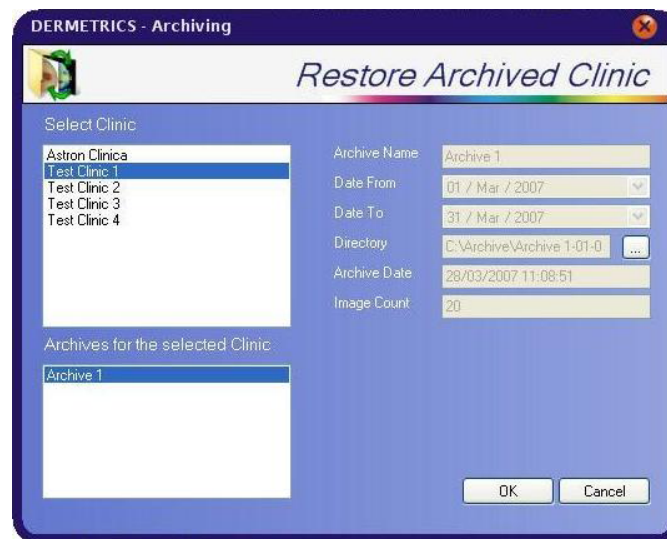
There are two ways to restore an archived image.

- Use the Data Management Centre and restore the whole archive set. This may take time to do as there are likely to be many images in the archive set. Instructions on how to do this are covered in the section [Restoring an Archive](#).
- **Click** on the image(s) that need to be restored, right click and select **Restore Archived Image(s)**. Instructions on how to do this are covered in the section [Restoring Selected Archived Images](#).



8.4. Restoring an Archive

To restore an archive **Click** on **Restore Archived Images** from the Data Management Centre. The **Restore Archived Clinic** window will be displayed.



Choose the clinic to be restored by **Clicking** on the name from the list of clinics in the **Select Clinic** box. When selected a list of archives for the selected clinic will be displayed in the box below called **Archives for the selected Clinic**.

Selecting an archive by **Clicking** on it will show the details for the archive, including how many images have been archived in the archive set.

If the archive is currently available at the place it was archived to, the **OK** button will be enabled. If the archive set has since been moved to a different place than what is specified in the Directory, clicking the '...' button will enable the browse function so the new location can be found and selected

Once the **OK** button has been selected, a restoring status bar will be shown along with a stop button. **Clicking** the **Stop** button on this bar will cancel the restore after the current image has been restored.

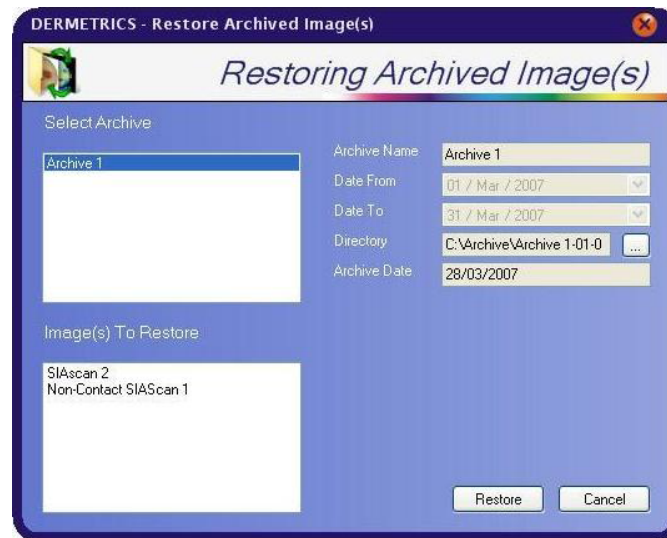


Warning

Clicking on the Stop button may cause the archive to be partially restored

8.5. Restoring Selected Archived Images

When **Restore Archived Image(s)** has been selected, a new window will appear which will show each archive that is related to the Images selected. As each archive will have its own archive path, each archive will need to be restored in turn.



Selecting a different archive will get the details for the archive along with a list of images in the archive cross referenced against what you have selected. The **Restore** button will be enabled if the Directory is valid. If the archive has been moved elsewhere, you can change this by **Clicking** on the '...' button. **Clicking** the **Restore** button will display a status bar while it restores the selected images from that archive.

Once the archive set is restored, the **Restoring Archived Image(s)** window will be displayed again so that another Archive can be restored(if applicable). **Clicking Cancel** will close the window and return the software to the previous window.

9. Acknowledgements and Notices

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A. Revisions

Table A.1. Revisions

Revision No	Revision Description	Date
Revision 0.1	First draft composed	09/12/2005
Revision 0.2	Output to PDF format implemented.	01.03.2006
Revision 0.3	Front Cover and Formating changed	24.05.2006
Revision 0.4	Images updated.	22.11.2007
Revision 0.5	Included section on archiving.	31.01.2008