

# **TROPHY MAC**

## **Installation & user's guide**

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### **Guide d'utilisation et d'installation de TROPHY MAC**



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SL221 – Guide d'installation du logiciel RVG MAC  
SL221 – RVG MAC software installation guide

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## English

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# INTRODUCTION

## FOREWORD

This guide contains all the information you will need to install and use the TROPHY MAC software on a microcomputer under the MAC OS X environment. For more information concerning hardware installation of the RVG kit, refer to the RVG installation guide.

This device is a class I device as defined in appendix VII of the directive covering medical devices 93/42/CEE. The CE marking certifies compliance of the device with the essential requirements of this directive.

This system is entirely dedicated to use of the RVG MAC with USB connection. The TROPHY MAC installation and user guide is divided into 5 chapters:

- installing the program
- using the patient record
- using the imaging system
- acquiring an image
- imaging tools

## Registered trademarks

RVG, STV, Digipan, Trophy, Trophy Radiologie and the TR logo are registered trademarks of the Trophy Radiologie Company. MAC is a registered trademark of the Apple Corporation. All other product names mentioned in this document are used for identification purposes only and may be trade names or trademarks registered by their respective owners.

## Warranty conditions

### Limited warranty

Trophy guarantees that the TROPHY MAC software will provide the performance specified in the accompanying software guide(s) for a period of 90 days as of date of reception.

### Customer recourse

Trophy undertakes to replace any defective software with an equivalent version provided the product is returned to the manufacturer with a purchase receipt.

However, the warranty shall not apply in those cases where the software or hardware malfunction is the result of abusive or incorrect use.

Any software replaced will be guaranteed for that portion of the warranty period remaining to be covered.

## Liability for indirect damages

Trophy and its suppliers shall not be held liable for damages of any type (in particular, bodily harm, loss of profits, interrupted activity, loss of data or any other financial loss) resulting from use or the incapacity to use the software or hardware accompanying it.

## Installation requirements

Your computer must have the following minimum configuration to install the TROPHY MAC software:

Operating system	MAC OS X.2 – OS X.3
RAM	256 MB (recommended 512)
Hard disk drive	40 GB (recommended 80)
Screen setting	1024x768 16 Million colors
Other	CD ROM drive Internet Explorer 4 or higher A default printer USB plug for RVG USB
To the acquisition station	A complete RVG MAC USB kit + X-ray generator 60-70KV less than 10 years old with digital timer

## Data security

X-ray images contain important data that would be unfortunate to lose (subsequent to a problem with your hard disk, for example).

We recommend that you regularly make backup copies of all images on an external media. We strongly recommend that you purchase an external backup unit that will allow you to make complete, regular backups of all your data.

Magnetic floppy disks should not be used due to their poor reliability and limited capacity.

# CHAPTER 1

## SOFTWARE INSTALLATION FOR OS X

Insert the Trophy Mac CD ROM. Double-click on the CD ROM icon that appears on the OS X desk. Then start the “Trophy Installer 1.0.mpkg” installation program.



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**CAUTION:** For the installation, you have to have administrator rights (See OS X user guide). The installation program will prompt you during the installation procedure to enter the administrator password in necessary.

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Follow instructions and answer to questions when necessary. Buttons Install, Continue or Accept allow switching to a next step. The Previous button makes one step backward. The Cancel button ends the installation (then the software is not installed). The Close button exist the installation program when the installation has completed.

Then restart the computer.

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**NOTE:** The software and the sample database are installed by default into the “Applications \ Trophy Mac OSX” directory. Trophy Patient application as well as the license file, custom file and test pattern image are also located in this directory. See also the installation/user guide of the sensor and details regarding these different files.

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## Software upgrade

The following update procedure described below works only for configuration that uses both Trophy Patient and Trophy Mac together. As a matter of fact, when Trophy Mac is linked with a dental practice management software (DPMS) the update procedure consists simply in installing Trophy Mac alone (and drivers). Then make sure the DMPS knows where to find the executable file. The patient database is managed directly by the DMPS so that Trophy Patient is not used.

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**NOTE:** The update is possible only if the Trophy Mac version to be replaced is a version 2.6 or higher. If this is an earlier version, then one must first update this earlier version into 2.6 or 3. Then reconstruct the database (“Rebuild” function from Database menu of Trophy Patient) then proceed to the version 5.x installation.

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While updating an existing version of Trophy Mac, the install program detects automatically the Trophy database and keeps it safe. Anyway it is highly recommended to backup all data prior to any action on the computer.

When the installation of the new Trophy Mac version is finished, run Trophy Patient and import the existing database. From the “Database” menu, click “Import” then indicate the database path (place where TrophyData file is). The new version is then OK for work.

## IMPORTANT

For the very first start of Trophy Patient, in order to see all images done by the former version, it is necessary to set up the software as follow:

- 1) From Trophy Mac menu, click “Preferences” then “Acquisition RVG” tab



- 2) Tick “Convert automatically all files” check box then OK
- 3) Exit Trophy Mac
- 4) Conversion will be done for each file into the new image format each time a new patient record will be opened

## Preset the program to the doctor's name



In order to get the doctor's name printed on each X-ray image's hardcopy, proceed as follow:

- Open the file "Praticien.txt"
- Replace the existing text by the name supposed to appear
- Save to validate the modification

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**CAUTION:** For OS X, the file format must be converted into text format (Format menu) prior to saving it. Then it must be saved under the same "Praticien.txt" name (confirm the replacement).

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## CHAPTER 2

### USING THE PATIENT RECORD

The « Trophy Patient » piece of software delivered along with RVG MAC kit is designed to run the « Trophy Mac » imaging software independently of any other dental practice management software (DPMS). If you own a DPMS that can operate, via a link, Trophy Mac software, then Trophy Patient is no longer used as it is replaced by the PMS. See at the end of this guide « Software engineers section » for more information about the link between Trophy Mac and a DPMS.

#### Launching the program



To run Trophy Mac imaging software, click first on the « Trophy Patient » icon located into the « Application \ Trophy Mac OSX » directory.

In order to simplify the access to the « Trophy Patient » icon, create an alias and place it on the desktop.



**NOTE:** When running « Trophy Patient » for the first time, a warning message pops up. You must indicate to the software where the database that contains all patient information necessary to operate the imaging module. See below the procedure to indicate the database path.

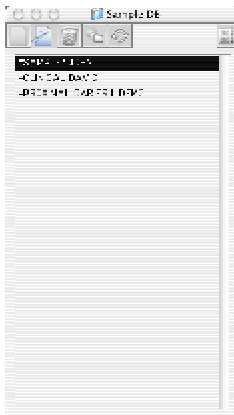
#### Select the patient database



When running « Trophy Patient », a message pops up and says that no database was found. Click **OK** then, in the next window, select the directory where is hosted the database (default “Applications \ Trophy Mac OSX” then click on **Choose**.

It is possible at this stage to select a Trophy index file located on a distant computer via a network.

#### Patient record



After launching the program, the patient record opens. It is possible to select a patient file and to access to the patient X-ray images. One patient can be selected at a time. Only the images belonging to the selected patient will be visible in the imaging module.

This window is divided into 3 areas described below, from top to bottom:

- title bar (title = name given to the database)
- icon bar : these icons provide fast access to the concerned commands. The following icons are displayed from left to right: Create, Erase and Imaging. See also the database management tools section for the other icons.
- the patient list sorted by alphabetical order.

## Creating a patient record



Click on the **Create** icon shown opposite. The «Record» window appears and shows the field to be completed.

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**Note:** Name, surname and birth date fields must be completed.

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The cursor is automatically placed into the active field.

To switch to the next field press the TAB key or click on the desired field.

To validate the creation of the new patient record click on **SAVE** or press the RETURN key. To cancel the creation or the modification click on **CANCEL**.

## Modifying or viewing patient record



Select the patient name in the patient list. To modify a record or review the contents click on the icon shown opposite. The patient record appears, modify or complete as explained earlier in the above section.

## Retrieve patient images



Select the patient name in the patient list. If the list is too long, just enter the first letters to focus the research on one part of the list only. You can also use the scroll bar to go up and down in the list.

Double click on the patient name or click on the icon shown opposite to access the patient images.

## Deleting a patient record



To delete a patient record, select a name in the list and delete the record and any associated information by clicking on the icon shown opposite.

A dialogue box requests your confirmation. You can cancel the delete procedure at this stage.

### CAUTION

When deleting a patient record, all associated information and images are automatically and irreversibly destroyed.

Confirm your choice by clicking **YES** or cancel by clicking **CANCEL** (on the keyboard, you can use the ENTER key for **YES** or ESC for **CANCEL**).

To avoid any unintentional loss of data, we recommend that you always back up your data on a storage media (removable disk, external hard disk, CD-ROM).

## Trophy Patient database management tools



When using a database through a local network connection it may happen that the connection to that database is lost. Click on the icon opposite to synchronize the two computers again. This can happen when rebooting the server or the workstation for instance.



To change the path of the database, click on the icon opposite and enter the new path. It is possible to use a database on another computer via a network as long as it was created by Trophy Patient. See also the earlier presentation of the selection of the patient database.

The “Rebuild” function is accessible from the «Database» menu. It updates the database structure based on a version 2.6 (or earlier) of Trophy Patient. As a matter of fact, the database structure has changed from version 2.6.

The “Listing” function is accessible from the «Database» menu. It creates a text file that contains the association of each patient name with each directory of the database. So that one can

understand the structure of the database and use it to make a link with a practice management software. This file is created into the default Trophy Mac directory.

The “Restore” function is accessible from the « Database » menu. It recreates the index file based on all information contained in all patient directories of the database. This function may be used if some patient names are missing from the list or if Trophy Patient cannot recognize the database. This would happen for instance if the index file would be corrupted for any reasons. Caution, this function is an emergency solution and can not replace the necessity to make frequent backups of the database on an external support (external hard disk drive, DAT...)

The “Import” function is accessible from the « Database » menu. It allows retrieving a database made by a previous version of Trophy Mac (2.6 minimum). Then, the structure of the old database is converted into the new one. One can import several old databases so that all patients will be piled together in a single database. In case of several occurrences of one patient then would then the same amount of patient record will be created in the new database.

## CHAPTER 3

### USING THE IMAGING FUNCTION

#### Register the software



From the installation date, one must register the software in order to use it fully. Once the 30 days are passed and if the software did not get registered, then no new image acquisition will be possible until the registration is done.

An automatic reminder message appears every day when the software is launched until the registration is completed.

To register, one must get a specific license number. Therefore, one must fill the registration form (“?” menu then “License”). Once completed, click “Send” to send it via e-mail (if an electronic mail system is available on the working station).

The “Registration” file must be sent to one of the following addresses:

By e-mail:

**license@trophy-imaging.com**

By regular mail:

**Trophy Radiologie  
Service Licences  
4 rue F. Pelloutier  
Croissy-Beaubourg  
77437 Marne la Vallée Cedex 2  
FRANCE**

By fax:

**+ 33 1 64 80 84 99**

#### Overview of the imaging window



The imaging window is made of various menus and tool bars. It allows the acquisition and the digital treatment of the RVG sensor images as well as importer images (provided that they have a compatible format).

The black background of the software was design to optimize the diagnostic of x-ray images. As a matter of fact, fine gray shades can be better distinguished when nothing is too bright around the image (same think for the dental film) See also the sensor installation guide for the right monitor setting.

## Drop-down menus

### Preferences menu

The “Preference” menu is accessible from the main menu bar “Trophy Mac” then “Preferences”. This menu allows the access to customization of the imaging software. This menu includes 3 tabs that are described below:



#### The “Local” tab

Allows choosing between the EU tooth numbering system and US one. Select the preferred one click OK.



#### The “Acquisition RVG” tab

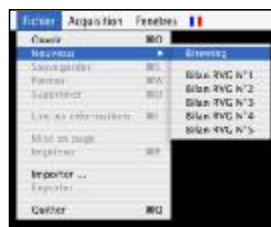
Allows setting up the following:

- Which sensor is used with the working station: RVG 5 (RVG ui) or RVG 6 (RVG Ultimate, RVG Access, RVG 5000 or RVG 6000)
- The default acquisition mode: High Resolution or Normal. Note that this applies only for RVG 5 versions since RVG 6 works always with the highest resolution.
- The maximized display of the image right after the acquisition. Then the image takes the maximum space available in the screen.
- The default anatomical post treatment that will be apply to the image after acquisition: Perio, Endo or DEJ. Refer to the Imaging Tools further down in this guide. The anatomical treatment can be modified anytime after the acquisition anyway from the imaging tool bar.



#### The “General” tab

Since the new image format introduced in version 5.0 of Trophy Mac, this option allows the automatic conversion of former image into the new format. If the option is not activated, then former file will remain in the old unless for image that would receive some adjustment (contrast, pseudo-colors...) and would have been saved (then new format comes into force for that particular image). It is advised to have the automatic conversion to have all images compatible with new Trophy Mac versions and also Windows based systems.



### File menu

- **Open:** Gives access to all images belonging to the current patient. Images can be sorted by list, date or tooth number.



RVG images showing date and tooth number.

Trophypan or Digipan images imported from a PC computer database, showing date.

STV images imported from a PC computer database.

Other imported images in BMP, JPG or TIF format.

The « FMS » thumbnail gives access to the full mouth series stored in the patient file (see also the function « New » from « File » menu). Note that each RVG image belonging to a FMS can also be retrieved from the List, Date or Tooth thumbnails.

- **New:** Opens the template manager. Each template is composed of a certain amount of frames having a standardized presentation on the screen. Each frame bares a number (from 1 to n). During the image acquisition process, each new image will be placed in a new frame according the order given by the numbers. The last acquired image or the active one is duplicated into the central frame to display it larger and to show more details. One completed, the template is called an « FMS » that will be stored in the patient history under the FMS thumbnail. There are five different templates mixing various configurations for complete series and one composed of four horizontal frames. The orientation of the image is given by the orientation of the frame (one can not have a horizontal image in a vertical frame).

Frames can be filled with images already acquired in the patient file. Just drag and drop the image from outside the FMS into the FMS frame of your choice. Images can also be removed of the FMS the same way.



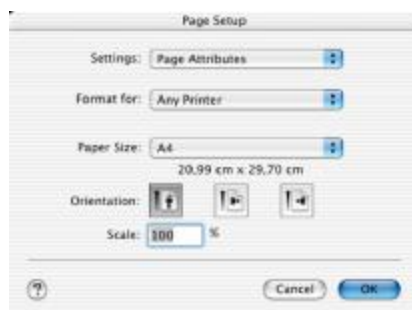
- **Save:** saves an image or changes by saving the image currently displayed on the screen. The computer system date will be affected to the image file automatically. Then it is possible to attach additional information to the image such as the tooth number and comments.

When closing the Trophy Mac imaging window or the active image window, you will be prompted to save or discard all images (or the single image) that were not yet stored.

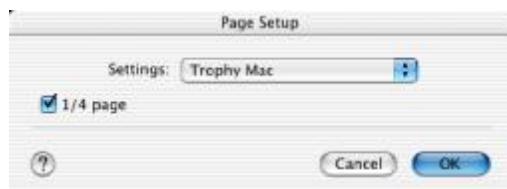
- **Image information:** Gives access to information that was added to the image file such as: tooth number, date, comments.
- **Close:** closes the image window that is currently active. When you close the window, a message will appear to ask you if you want to save the image or modifications made to the image.
- **Delete:** is used to erase an image from the patient file. Caution, the image will be lost and no retrieve will be possible. If the deleted image belongs to an FMS, then an empty space will replace the image when opening the FMS.
- **Page Setup:** is used to adjust the printing settings. See also the printer's manual. Note that the 1/4 page option will reduce the image to a quarter of the page. This option is available from the menu «Settings » then « Trophy Mac ».

#### NOTE

This window may be different according to the make of the printer installed.

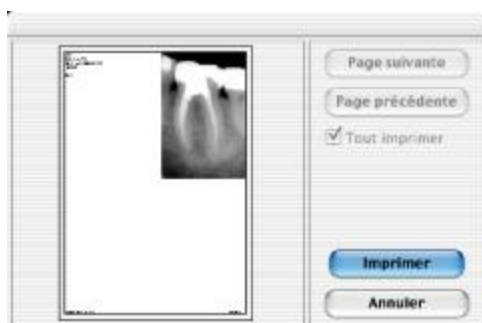


Printer options



Trophy special option

**Print:** displays the print preview then prints the selected images.



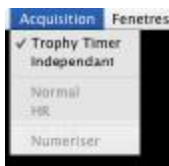
#### NOTE

To be imported, an image must have a format compatible with Trophy Mac

- **Import:** imports an image from a storage location that is different from that of the current patient.



- **Export:** saves the active image into a directory of your choice. It is also possible to select another target (floppy disk, other hard disk...). If no new file name is mentioned, the exported file name will be the one given by Trophy Mac. The file format remains the Trophy Mac format (X-ray images format).
- **Quit:** Exit the Trophy Mac imaging software (shortcut key « Apple + Q »).



### Acquisition menu

The setup of the acquisition digital parameters is made through the **Acquisition** menu as follow:

**NOTE:** When an option in the menu is gray, this means that the RVG system is not installed properly or not working. See also the acquisition control panel section.

- **Trophy Timer :** Tick this option if the RVG system has an electrical synchronization link with a Trophy timer (CCX or Elitys). The image acquisition is done each time the x-rays are dispatched.
- **Independent (default mode):** Allows the RVG system to make acquisitions without link to a timer. Then, you must click the Digitize button (or select it in the menu) prior to any new X-ray image.
- **Normal:** Activates the High Sensitivity acquisition mode. This mode enables you to take X-ray images using extremely low doses of X-rays. This function can be activated by the icon shown opposite from the acquisition tool bar. (Available only for RVG 5 series)
- **HR (recommended):** Acquires an image in High Resolution mode. This mode provides maximum sensor resolution. This is the only mode capable of providing image quality better than film. We therefore strongly recommend that you keep this as a default parameter. The function can be activated using the icon shown opposite from the acquisition tool bar.
- **Digitalize:** Available only when the **Independent** mode is set. This prepares the RVG system to make an acquisition waiting to receive X-rays. The acquisition icon then changes from red to green. Then a countdown of 90 seconds starts. If the countdown is over before



triggering the X-rays click on **Digitalize** (or acquisition icon) again. After X-rays are triggered the image displays on the screen within a few seconds.

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Summarize: **Trophy Timer** and **Independent** mode are set during the installation and will remain. **Normal** and **HR** can be changed before each new acquisition if needed. The last mode in use is the default one. One must click on **Digitalize** or on the acquisition icon before making a new image if the **Independent** mode is set, otherwise (**Trophy Timer** is set) no action prior to acquisition is required on the computer side.

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### The acquisition tool bar



The acquisition bar appears only if specific conditions are met. According to the acquisition mode, the bar has a different appearance.

<b>Trophy Timer option</b>	<b>Activated</b>
Sensor	Connected
USB box (if RVG USB)	Switched ON and recognized by the system
Timer	Switched on and link connected

\* not applicable for OS X

<b>Independent option</b>	<b>Activated</b>
Sensor	Connected
USB box (if RVG USB)	Switched ON and recognized by the system

\* not applicable for OS X

### Windows menu



This menu is used to display or mask the various windows forming the imaging function.

### “?” menu



Provides an access to the registration application form that must be filled out and sent back to obtain the final license key



# CHAPTER 4

## ACQUIRING AN IMAGE

### Step-by-step procedure

If necessary, change the acquisition mode (high resolution or high sensitivity). Note that the last one used is the default one.

Select the setting of the X-ray timer according to patient and the tooth number to be X-rayed.

Move the tube head close to the patient's head.



Activate the acquisition button or push the remote control's button (if the **Independent** mode is activated)

Position the sensor in the patient's mouth.

Position the tube head's cone facing the sensor.

Check if the acquisition icon is still green. If red, activate it again or push the remote control's button again (if the **Independent** mode is activated).

Trigger the X-rays.

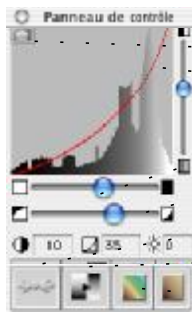
The image appears on the screen in a few seconds.

# CHAPTER 5

## IMAGING TOOLS

### The control panel for panoramic images

The control panel is divided into several areas:



- **minimize** or **maximize** the control panel
- image **histogram** window
- **contrast** and **brightness** enhancement bars
- **gamma** enhancement bar (only for panoramic images)
- **reset** icon
- **reverse video** icon
- **pseudo-colors** and **sepia** icon

The control panel can be minimized as shown.



### The control panel for RVG images

The control panel is divided into several areas:



- **minimize** or **maximize** the control panel
- image **histogram** window
- **contrast** and **brightness** enhancement bars
- **gamma** enhancement bar (only for panoramic images)
- **reset** icon
- **reverse video** icon
- **pseudo-colors** and **sepia** icon
- **Exposure** indicator



The control panel can be minimized as shown in order to not take too much room in the display area. Only most important functions are kept visible for operating radiology practice. See also in the following the details about post-treatments and the exposure indicator's use.

## Histogram

Shows distribution of gray levels on image pixels on two axes. The horizontal axis supports the entire range of gray levels. The vertical axis quantifies the number of pixels assigned to a given gray level.

## Contrast and brightness bars

Contrast and brightness enhancement is used to analyze a specific area of the image (with the rest of the image possibly saturated).

This tool is particularly useful to display tooth decay, endodontic files, implants, detection of fractures, lateral canals, ...

The gray levels can be changed using the contrast and brightness enhancement bars by clicking and sliding the buttons on the bars. The active image is updated in live.

### Highlight toolbar



This setting bar is visible only when the Highlight is selected in the RVG toolbar. The cursor allows the shrinking or enlargement of the Highlight spot. This is very practical when exploring a narrow area like bone crest (small spot size) or when wishing to have a more global view of the image (large diameter).

### Pseudo colors



#### NOTE

These are considered as pseudo-colors insofar as the software generates an arbitrary association between a gray level and a given color.



Color No. 1: this button (third button from the left) varies the color palette to display the image spectrum.

The human eye more easily distinguishes borders between colors than borders between gray levels. In certain cases, this can provide additional diagnostic information. However, we recommend that you confirm the new diagnosis by converting the image to black and white. Having detected the detail in color, the eye should distinguish it in black and white.

Color No. 2: this color (last button from the left) changes the black and white tones into a different color palette while preserving the linearity of the contrasts

### Reverse video icon



This function enables you to go from a positive image to a negative image and vice-versa (Transition from black & white image to white & black image). This function may provide a better view of a file at the apex for example.

### Reset icon



Click on this icon to re-display the initial state of an image on which processing has been performed. This allows you to return to the original image as acquired with no loss of information regardless of any processing which has been applied since the image was taken.

### Linear icon



Periodontal mode. Perfect to reveal soft tissues and low-density items. The image turns whiter so only the periodontal area is interesting, as it shows all that was dark in the previous mode.

### Endo icon



Endodontic mode. Best optimization of the contrast and brightness for the whole image. This is the default mode to have a global good perception of the image.

### Contrast icon



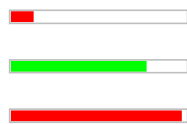
Dental to Enamel Junction mode. Enhances the high-density areas. The image turns darker so only high-density items and the dental to enamel junction is interesting (for decay detection for instance).

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The last three icons described above are available only with an RVG 5 or RVG MAC image (as soon as the image is selected). The image must have been acquired via Trophy Mac software version 3 or higher or Trophy Windows version 4.1K or higher).

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## Dose indicator



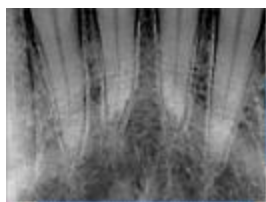
This tool is purely visual. It provides an indication of the quality of the image respectively to the level of contrast that it intimately connected to x-ray dose. So the indicator can warn for an under exposed image (short red line), or normal image (green line) or a over exposed image (long red line).

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**WARNING:** An over exposed image could show anyway a clinical interest since the anatomical area of interest is visible. Likewise an under exposed image can contain interesting clinical information. The decision to use the information contained in the image remains entirely in the user's hands. The dose indicator is just an help so that users can find out what best timer setting is necessary for their needs.

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## Display and resizing of an image



After a picture is taken, the image is displayed with a ratio of 25% to keep the screen from getting congested. To see the image bigger, you can change the size by clicking and dragging the lower right corner of the window displaying the image. The only display, which will provide all the details contained in the RVG image, is 100% display. This gives one sensor pixel for one monitor pixel.

To display the area of interest, move the horizontal and vertical scroll bars of the window or move the mouse with the right button pressed along the edges of the window.

## RVG image toolbar

The RVG toolbar contains image-processing tools. As per the control it can only be used on one image at a time (the active image).

To use the toolbar, select the image you want to process (to select an image, click on the image). Then, click on the button representing the tool you want to use with the image to use if the image changes.

The toolbar provides the following options:



- 1) RVG filter. This filter is specifically designed for X-rays taken with an RVG MAC sensor in high-resolution mode.

As any filter, the RVG filter can create some shadows around dense materials such as amalgams, implant or gutta percha. Deactivate the filter to remove these shadows, and to confirm your investigation. This filter will enhance tiny clinical details that would not be easy to see at once when the image comes on the screen.



- 2) The Highlight, this tool reinforces contrasts on a local part of the image. The Highlight tool enhances details that are difficult to see with the naked eye. The tool can be applied to pure and filtered images displayed in a window or in full screen display (scale 1 image) or in zoom display. It is possible to adjust the size of the Highlight spot (see earlier: The Highlight tool setting bar).



- 3) Relief effect. This function provides a representation of the image with a relief effect. The image contours are enhanced. This maximizes the differentiation between gray levels hence between densities. Therefore, as an example, it is easier to distinguish with this filter an endodontics file merged into a dense material such like Gutta or cement in the case of an endodontics retreatment.



- 4) The measurement tool, allows making measurement on the default image. A specific window opens and displays the default image (See further for more details and warnings about measurements).



- 5) Rotation left or right of the image. This should be used to have the image oriented on the monitor the same way as it is clinically into the patient month. As a matter of fact the sensor never distinguishes an upper or lower jaw tooth. Therefore one must orientate the image after the acquisition.

## The Measurement tool

After clicking on the “Measurement tool” button, a window appears and displays the default image. In the image, click on the first position that will be the beginning of the measurement. Then draw several segments from the original position (each new click will make a new segment). The size of each segment appears to the side of that segment. The total length is given in the upper right corner of the window.



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**CAUTION:** In the radiology world, all measurements are subject to errors in comparison to the real anatomy. According to the X-ray beam orientation, the alignment of the image chain devices and items (sensor, tooth, tube head), the projection of clinical structure results reduced or magnified.

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It is important to calibrate the measurement tool prior to start making a measurement. Click on the “Calibrate” button. A single segment is available to operate the calibration. The idea is to measure an item that was placed as close as possible to the clinical structure of interest. As the item has a known length, once obtained the first result of the measurement (upper right corner) it is necessary to enter the actual length via the virtual keyboard and click “=”. Then the actual length takes place the previous value and will be taken into consideration for all next measurements in this image while the measurement window is open.

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**NOTE:** The calibration is lost when closing the measurement window. Then it will be necessary to calibrate it again for the next measurement procedure.

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**CAUTION:** Even after calibration, measurement remains subject to interpretation. As a matter of fact, overlapped three-dimensional clinical structures could hide some curved details on a two dimensions image.

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## CHAPTER 6

### SOFTWARE ENGINEERS SECTION

#### Link with a practice management software

The Trophy Mac CD ROM contains all necessary information to create a link with a practice management software (PMS). Two pluggins are supplied to make this link possible. One dedicated to any 4D based application another one dedicated to other languages.

The link between both a PMS and Trophy Mac will allow both software to share the same patient and image database.

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NOTE: The PMS manages the whole database management therefore it replaces entirely the Trophy Patient program.

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#### Import a Trophypan or Digipan image from a PC computer

Panoramic images acquired via a Trophypan or a Digipan (Extra-oral sensors manufactured by Trophy and PC computer based) can be imported in Trophy Mac. The PC computer and the Mac station must be connected to the same network. A common import/export directory must be defined. Then the user will have to export the image from the PC to this common directory and import it in Trophy Mac and store it in the patient file.

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NOTE: For the Mac computer, OS X.2 is the minimum configuration. On the PC side, Windows XP as a minimum is necessary.

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#### Trophy Patient data base structure explained

The database generated by Trophy Patient has a proprietary structure that can be complicated to understand when considering a conversion into another structure.

The « Listing » function is available from the « Database » menu in Trophy Patient. It creates a file containing all information from all patient records and it indicates in which directory these information and all images are stored. Then it is possible to retrieve the whole data and to create a different structure according to the needs. Trophy Patient will no longer be the patient management system and it will obviously be replaced by the PMS or another type program.