VisiQuick V3

User Guide
Reference Guide

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Design Thomas Jensen

Revision 3.

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Working in the compare view

VisiQuick starts up in the Compare view. The compare view is a workspace that allows you to examine, compare and modify images stored in a patient record. When you open a patient record in the compare view, thumbnails of all the stored images will appear in a column on the left side of the screen. The rest of the screen is split into view frames.

Changing the view frames layout

There are many different layouts available in the compare view.

To change the layout of the view frames, press one of the 4 split-screen layout buttons above the thumbnail list or select View > split screen from the menu. Keyboard shortcuts are:

Ctrl-1 one large frame

Ctrl-2 2x2 grid

Ctrl-3 3x3 grid

Ctrl-9 1 large over 4 small

To configure a layout button for a different layout scheme, right-click the button and choose a new layout from the pull-down list.

Viewing images in the compare view

To view an image, click a thumbnail in the left-hand thumbnail list. The image will appear in the first unoccupied frame.

To place an image in a specified frame, click inside the frame, then click the thumbnail, or alternately, click and drag the thumbnail to the frame.

Moving images

To move an image to a different frame, click and drag the image to the new frame. If you move an image to an occupied frame, the old image is replaced, although still available in the thumbnail list.

Closing images

To remove an image from a view frame, right-click the image and select close. From the keyboard, press backspace to close an image, or ctrl-backspace to close all the images.

Zooming images

To zoom in on an image, select the magnifying glass tool on the toolbar. Clicking the image with the + magnifying glass will zoom in. To zoom out, select the – magnifying glass and click the image. If you have a wheel mouse, you can also click an image to select it, and then zoom in and out with the wheel.

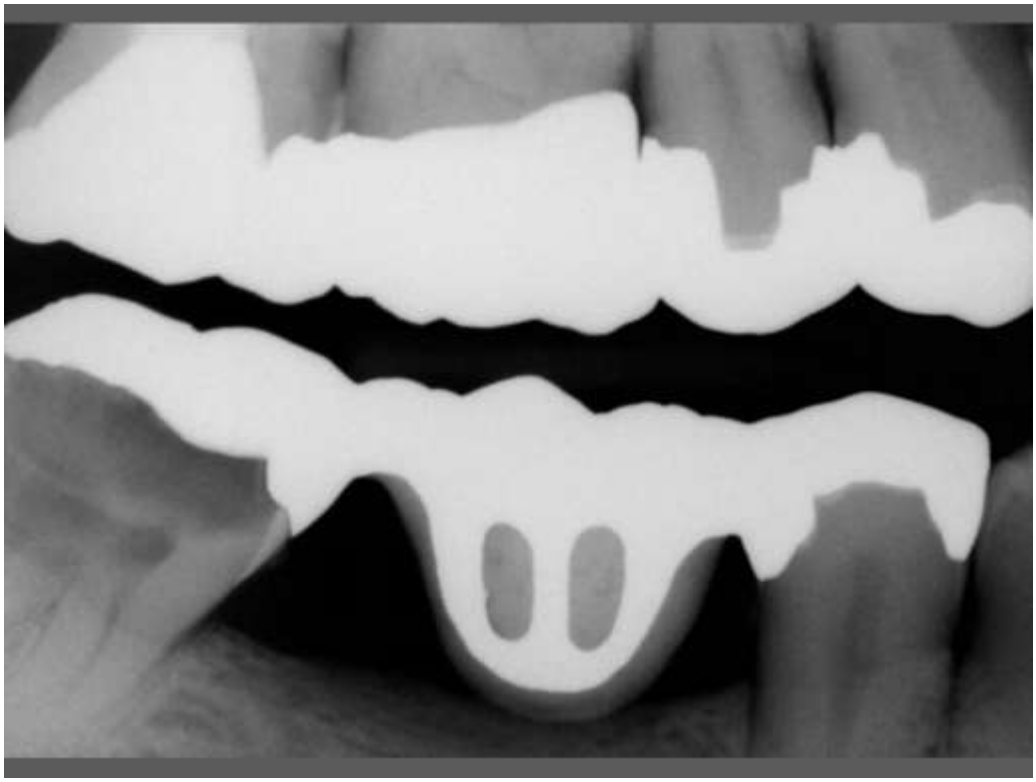
Pressing the ALT key will toggle between zooming in and zooming out while using the + magnifying glass.

While you are pressing the left mouse button to zoom in with the + magnifying glass, pressing the right mouse button will cause the image to zoom out.

To position the zoomed image in its window, click the image and drag the mouse.

Viewing full-screen

Double–click an image to view it full-screen. Click the full-screen image to return to the compare view.



Enhancing images in the compare view

There are many tools you can use to enhance patient images in the compare view.

Searching for caries

The **histogram equalization** filter optimizes contrast in x-ray images to search for caries. Select the image and click above the thumbnail list.

Quick contrast adjustment

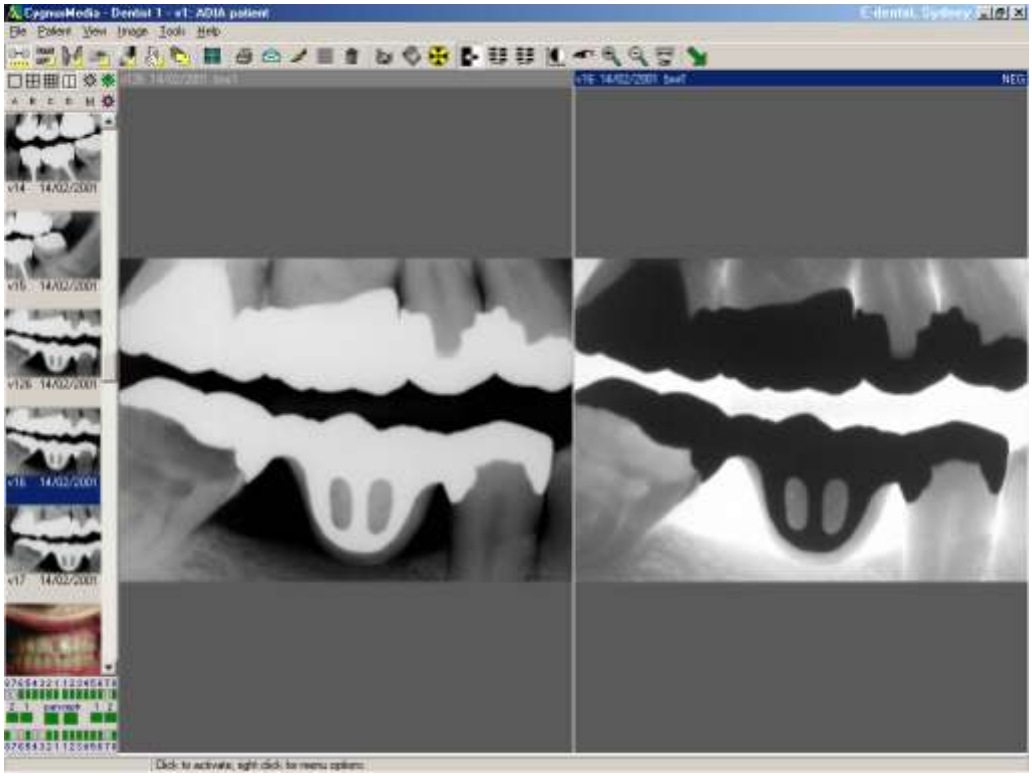
To quickly adjust the image contrast, click above the thumbnail list.

Restore the original image

To discard all changes to an image and restore the original, click above the thumbnail or right-click the image and select **Reset all** or press **Ctrl-spacebar.**

Negative

To convert an image to its negative, click on the toolbar or press **ctrl-n.** Click again to deactivate.



Sharpen

To increase the definition between color areas in an image, click on the toolbar. Click again to deactivate.

Smooth

To decrease the definition between color areas in an image, click on the toolbar. Click again to deactivate.

Adjusting the contrast and brightness

To adjust the brightness and contrast with the mouse, click on the toolbar. Click and drag on the image to adjust it. Moving the mouse up and down increases and decreases the brightness. Moving the mouse left and right increases and decreases the contrast. Click the icon again to deactivate.

To adjust contrast and brightness with the keyboard, select and image and press **ctrl-up** and **ctrl-down** to adjust the brightness, **ctrl-left** and **ctrl-right** to adjust the contrast.

Using the super filter

The super filter enhances bone and tooth borders in an image. To activate the super filter, select an image and click the A-B-C-D buttons over the thumbnail list.

A – low filter intensity

B – medium filter intensity

C – high filter intensity

D – extreme filter intensity – this filter is specially tuned to enhance the big nerve in the jaw and sinus shapes in panoramic x-rays.

Note: The D super filter is very processor intensive and can take up several minutes to complete on large images using a slow computer.

Viewing bitewing sets

To quickly view all of a patient's bitewing x-rays click the button on the taskbar or press **alt-spacebar**. The most recent set of bitewings will appear on top, the next most recent, underneath.

Working with X-ray Images

VisiQuick has several tools to help you work with X-ray images. In this section you will learn the various ways to create a new image, modify it, and add it to your patient's record.

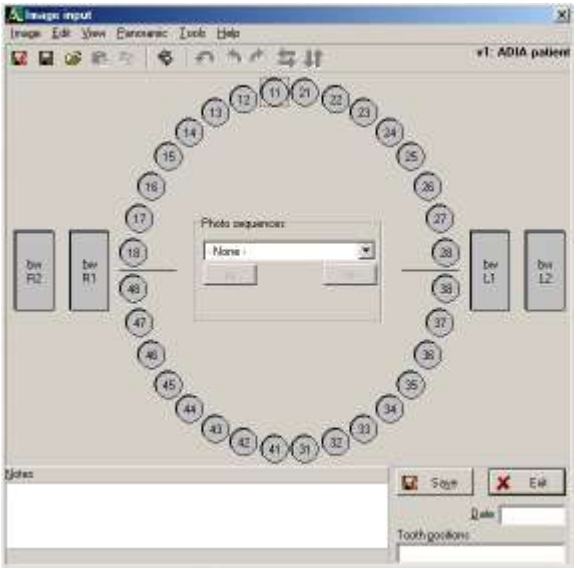
Creating a new X-ray image

New X-ray images are created inside the **Image Input** window. To open the **Image Input** window, click the button on the toolbar, select **Image > New image** from the task bar, or press **F12**.

Note**: a patient record must be open before you can create a new X-ray image.**

The **Image input** window will appear, displaying a set of numbered tooth and bitewing buttons representing different placements for the X-ray sensor. Enter the date for the new image at the bottom right of the window.

To create a new image, click on one of the tooth or bitewing buttons. This will cause **VisiQuick** to wait for an image from your X-ray sensor. After the sensor sends the image, it will be displayed on your screen.



Note: VisiQuick will accept images from many different digital X-ray sensors. The best method to proceed with the X-ray will depend upon what sort of X-ray sensor you use. Essentially there are two options:

1. With most sensors it is convenient to (a) activate **VisiQuick** by pressing a tooth or bitewing button, (b) prepare the patient for the X-ray and position the X-ray sensor, and (c) expose the X-ray sensor.

2. Some X-ray sensors, however, such as the Schick sensor, only allow a short waiting period between activating **VisiQuick** and beginning the exposure. If this time is exceeded, an error will result. If this is the case with your sensor, you will probably need to, (a) prepare the patient and the sensor, (b) activate **VisiQuick**, then (c) expose the sensor.

When a tooth or bitewing button is clicked, a window with a yellow band will appear at the bottom of the screen, displaying the message '**Initializing sensor**.' After a moment, the band will change from yellow to green and the message will change to '**Expose now**.' You can now activate the X-ray device. The band will change from green to blue; the message will change to '**Loading new image**.' **VisiQuick** will acquire the new image, displaying it on your screen.

Finally, click **Save** to add this image to your patient's record--the image appears in the patient's X-ray status view. Right click and select **Close** to discard the image.

Using the Tooth and bitewing buttons

Which tooth or bitewing button you click determines how the X-ray image will be labeled and stored in your patient's record. For example: If you are making a right bitewing image, clicking **bwr1** will cause the resulting X-ray to be stored in your patient's record with the label 'bwr1,' If you are making an X-ray of tooth 23, click button **23**, and the image will be labeled '23,' etc. Correct labeling of your images is important as it allows you to easily retrieve and work with your images in the future.

Multiple teeth

To correctly label an X-ray image of multiple teeth, you may select multiple tooth buttons by clicking on one tooth button, then dragging the cursor across the other tooth buttons to be selected. Such an image will then be labeled with the selected teeth -- '1 2 3 4,' '24 25 26,' etc.

Tooth numbering

VisiQuick supports 4 different tooth-numbering schemes. You can select from FDI, USA, Danish, or British by choosing **Tools > tooth numbering…** The default scheme is selected during installation.

Creating new images with Photo Sequences

The **Photo sequences** function allows you to make multiple consecutive X-rays. Suppose you want to make a right and left bitewing X-ray for every new patient. **Photo sequences** allows you to pre-define such a multiple x-ray procedure, thus saving you time and effort.

Creating a new Photo Sequences function

To create a new Photo sequences function, open the **Edit photo sequences** window by selecting **Tools > Photo sequences…** from the **Image input** window task bar. Click the **Add** button and enter a name for your Photo sequence.

If you wish, you may enter sound files (*.wav) to alert you to the start and finish of your x-ray procedure.

Next, use the bottom **Add** button to enter tooth position codes one at a time, in the desired order, into the **Tooth positions:** window. Click OK to return to the **Image input** window.

The new Photo sequence is now available from the pull-down list in the middle of the **Image input** window.

Example: To make a left and then right bitewing Photo sequence, add 'bwl1' and then 'bwr1' into the **Tooth position:** window and name the resulting sequence something like 'l/r bitewing set.' To make a set of 2 left and then 2 right bitewings, add 'bwr1,' 'bwr2,' bwl1,' and 'bwl2' to the **Tooth positions:** window and name it perhaps '4 bitewing set.'

You can now select your photo sequence from the pull-down list and VisiQuick will acquire the images from the X-ray sensor just as if you had requested them one-by-one.

Changing image properties

Change default image settings

You can modify the default appearance of new images. Open the **Edit default image settings** dialog box by selecting **Tools > default image settings…** Here you will find settings that allow you to change the default contrast and brightness values, and to select sharpening, smoothing or histogram stretching by default for your new images.

Change default tooth or bitewing button properties

Also, you can change the default image properties for any individual X-ray location by right clicking on a tooth or bitewing button and selecting **Properties.** The **Tooth properties** dialog box will appear, allowing you to specify default values for tooth button name, image rotation, mirroring, compression type, JPEG image quality, acquisition mode, contrast, brightness, and Digora brightness.

Rotation and mirroring

A new image can be rotated and/or mirrored before it is saved. The rotation and mirroring tools are accessed under the **Edit** menu of the **Image input** window or by clicking the different arrow buttons above the image.

Set pixel height and width scale

Right clicking on an image accesses the Image properties window. Here you can set the pixel height and pixel width scale values of the image, and find other image size and resolution information.

The measurement window

You can use **VisiQuick** to label teeth and make precise tooth measurements for root canal work.

Labeling teeth

To place a text label in an image:

1. Select **Tools > Open measurements** or press **M** to open the **measurement** window.
2. Click **T**
3. Click the image you want to label.
4. Enter the text of the label and press Enter.
5. Click the label and drag it to the desired position.

To place multiple labels at one time:

1. Double-click **T**
2. Enter each message and click OK after each, or press Enter.
3. Click cancel to close the window, or press Escape.
4. Drag the labels to the desired positions.

Measuring an uncalibrated root canal image not containing a file

1. Select **Tools > Open measurements** or press **M** to open the **measurement** window.
2. Click the button.
3. With the pencil, click the start-point of the measurement on the image
4. Drag the mouse to the end point of the image.

The distance appears in the measurement window.

Measure a root canal calibrated by a file

1. Select **Tools > Open measurements** or press **M** to open the **measurement** window.
2. Click the button.

3. With the pencil, click the start-point of the file in the image (click-drag from the start-point, down along the path).
4. Trace the length of the file with the pencil by dragging and clicking along its path.
5. When the end-point of the file is reached, right-click.
6. Click the point to which you want to measure, then right-click.
7. Enter the length of the file and press Enter.

The calibrated distance appears in the measurement window.

Printing Images

This section will explain VisiQuick's printing tools.

Types of print jobs

Print jobs in VisiQuick fall into two categories, normal printing and image printing.

Normal printing

Normal printouts are typically made on an inkjet or laser printer on A4 or Letter size paper. Multiple images, patient information, logos, etc can be included on one page. Any images and text from patient records can be printed out normally.

Image printing

VisiQuick also works with high-definition color printers to create photo-quality print output. These printouts are typically a much smaller format than normal printouts and are typically made using the "dye sublimation" method. Only one image can be printed out on each page on the image printer.

Printing a single image with the normal printer

A single image will be scaled to fill the entire printed page. You can print in any of the following ways:

- Click to select an image. Select **File > Print > Print current image**
- Right click an image and select **Print current image**
- Drag the image to the printer icon on the toolbar. The **print** window will open containing a thumbnail of the selected image. Click the red arrow icon in the print window to print.
- Click the printer icon  , select **Open print window**, and then drag the image into the **print** window. Click the red arrow.
- Press **ctrl-p**, select **Open print window**, and drag the image into the **Print** window. Click the red arrow.

Printing an image with the image printer

Do one of the following:

- Right click a thumbnail image and select **Print on image printer**

- Select **File > Print > Print current on photo printer**
- Click to select an image and then click the printer Icon in the toolbar. Select **Print current on photo printer**.
- Press **ctrl** and **p** and select **Print current on photo printer**.

Printing multiple images

VisiQuick will print multiple images, 4 to a page, in two rows of two. Multiple images will print on the page in this order: top left, top right, bottom left, and bottom right.

1. Open the **Print** window, either by dragging the first image you wish to print to the printer icon on the toolbar or by clicking the printer icon and selecting **open print window**.
2. Drag the images you wish to print into the print window in the order you wish to have them arranged on the page(s).
3. Click the red arrow to print the images.

Printing multiple images on separate pages

When printing multiple images, you may choose to have any or all of the images print on their own page. To do this, right click on the image and select **Print wide.**

Print wide with panoramic x-rays

Selecting print wide when printing a panoramic x-ray image will cause the printed image to occupy ½ a sheet of paper, instead of ¼. This can be useful if, for example, you want to make a printout with two bitewings on the top half of the page, and beneath, a panoramic x-ray.

Multiple-image printing features

There are 4 printing features available by clicking the printer icon in the toolbar.

Print entire status

Prints all the visible images in the x-ray status window on one page.

Print front teeth status

Prints up to 8 images from the 8 front teeth slots in the **x-ray status** view on one page.

Print molar status

Prints up to 8 images from the 8 molar slots in the **x-ray status** view on one page.

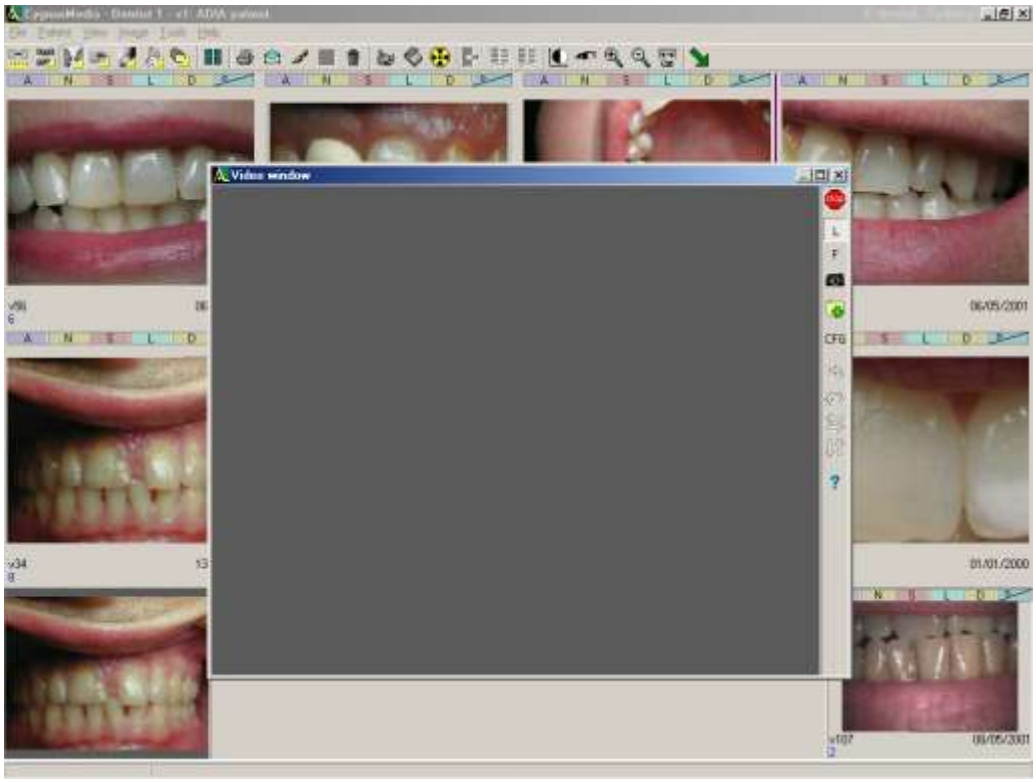
Print bitewing status

Prints the 2 most recent sets of bitewing images on one page—up to eight images.

Using the video camera

VisiQuick makes 24-bit color images by ‘capturing’ them from a live video source. A video camera attached to the workstation generates a live video image, which is displayed on the

monitor. When the camera is properly positioned, the keyboard or a foot pedal captures one frame of video and stores it as a still color image in the patient record.



To create a new color image:

1. Open a patient record to which you wish to add a color image. A patient record must be open before you can create an image.
2. Open the **Video window** by selecting **Image > Video** from the taskbar, by clicking the video camera icon on the taskbar , or by pressing **F11**.
3. The live video will appear in the window. When the camera is pointed at the desired subject, you have three options to select the frame you want for the image:

   Quick save an image to the patient record

   To quickly select a single frame from the live video source and save it in the patient record, click the plus icon, press the spacebar, or press the foot pedal for one second or longer. This is the simplest way to create an image, but it doesn't allow you to see the still frame or modify it before saving.

Capture and modify an image before saving

   To capture and modify a still frame before saving it, click the camera icon. The still image will appear in the video window. Now you can use the arrow tools to rotate and mirror the image. Click the plus icon to save the image to the patient record or click **L** to resume live video.

   Freeze the video source

   To temporarily halt the video source without capturing the frame or saving it, click the **F** button, press the spacebar, or tap the foot pedal (for less than one second). This is useful to clearly see the still frame before deciding to whether or not to work with it,

without stopping the video driver. Once the source is frozen, you can then capture the frozen frame to modify it, or simply save it. To resume live video, click the **L** button, press the spacebar, or tap the foot pedal.

Configuring video options

To configure the video options, click the **CFG** button in the **video** window. You can configure the following options:

Ask date

To manually specify the date of a new image, select the **Ask date** option. When this option is checked and an image is saved, you will be prompted to enter the date. If this option is unchecked, the system date will be used.

Stretch to fit

To stretch the video source to fill the entire video window, select the **Stretch to fit** option. Normally, this is unchecked because stretching slows the video source and introduces distortion in the image.

Overlay

This option is recommended for high-performance video. De-select this option if it is incompatible with your hardware.

Special full-screen feature with digital video

If you are using a digital camera with a Firewire connector, you can opt to see the live video full-screen. Double-click the image to toggle between the normal video window and full-screen mode. While in full-screen mode you can freeze (spacebar or tap footpedal) or quick save (**F8** or press foot pedal).

Video source

To change the source-type of the video camera, select **Source**. Select S-video (S-VHS) or Composite, depending on which type of connector your video camera uses to connect to the workstation. The video source must be set correctly before the camera will function.

Video format

To change the screen and color resolutions, select **Format**. VisiQuick requires 24-bit color; 640x480 or better video resolution is recommended.

Adding images with a scanner

You can add images to a patient record using a flatbed scanner. You can either enter scanner settings each time you scan, or you can save scanner settings in a **Scanner profile**, making scanning a one-click process. This section will describe how to scan each type of media, and then how to save the scanner settings in a profile.

Scanning a panoramic x-ray

Follow these steps:

1. Open the patient record to which you wish to add a panoramic x-ray image
2. Open the **Image input** window and make sure **Large film buttons** in the **View** menu is selected.
3. Right-click on the **PAN** button and select **Properties**
4. Set **Compression** to JPEG. Click OK
5. Select **PAN** and then click the scanner icon on the toolbar to open the scanner software window.
6. Place the x-ray on the scanner bed outside of the scanner calibration area.

   Note: Placing the X-ray emulsion-side-up or emulsion-side-down will give different results. Experiment to determine which works best with your scanner.
7. Set the scan resolution between 150-300dpi.
8. Preview the scan.
9. Select grayscale scanning and adjust the brightness and contrast controls for the best image in the preview window.
10. Crop the image to scan only the desired area of the X-ray.
11. Scan. The image will appear in the **Image input** window.
12. Click save.

The image is saved in the patient record.

Scanning a color photograph

1. Open a patient record to which you wish to add a color image.
2. Click the scanner button on the main toolbar to open the scanner's software window.
3. Preview the scan.
4. Set the scanner for opaque media.
5. Set the resolution to 200dpi.
6. Select 24-bit color scanning
7. Adjust the brightness and contrast for the best image in the preview window.
8. Scan. The image will appear in the color image status view.

The image is saved in the patient record

Scanning a bitewing x-ray

1. Open a patient record to which you wish to add a bitewing image.
2. Open the **Image input** window by clicking the x-ray icon on the main toolbar
3. Click the scanner button to open the scanner's software window.
4. Set the scan resolution to 600dpi

5. Preview the scan.
6. Set the scanner for transparent media.
7. Crop the image to select only the desired area to scan.
8. Select 24-bit color scanning and adjust the brightness and contrast for the best image in the preview window.
9. Scan. The image will appear in the Image input window.
10. Rotate or mirror the image using the arrow tools, if necessary.
11. Click save.

The image is saved in the patient record.

Scanning a color slide

1. Open a patient record to which you wish to add the image.
2. Click the scanner button on the main toolbar to open the scanner's software window.
3. Set the scan resolution to 600dpi (use 1200dpi if you wish to recreate the slide from the scanned image later)
4. Preview the scan.
5. Set the scanner for transparent media.
6. Select 24-bit color scanning
7. Adjust the brightness and contrast for the best image in the preview window.
8. Scan. The image will appear in the **Color image status** view.
9. Rotate or mirror the image using the arrow tools, if necessary.
10. Click save.

The image is saved in the patient record.

Scanning a document

1. Open a patient record to which you wish to add the image.
2. Open the **Document** view by clicking the document icon on the main toolbar.
3. Click the scanner button to open the scanner's window.
4. Set the scan resolution to 150dpi
5. Preview the scan.
6. Set the scanner for opaque media.
7. Select grayscale scanning.
8. Adjust the brightness and contrast for the best image in the preview window.
9. Scan. The document image will appear in the document view

The image is saved in the patient record.

Scanner settings

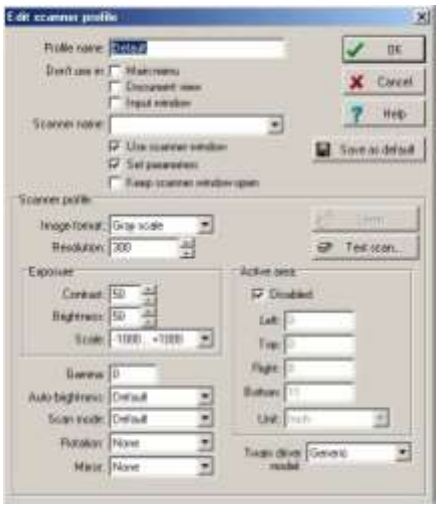
It is important to use the correct scanner resolution settings to get the best possible image and ensure the best possible functioning of **VisiQuick**. If image resolution is set too high, the image files generated will be very large and will quickly fill a hard drive. Furthermore, very large image files will slow down **VisiQuick**, making it more difficult to work with. If the image resolution is set to an unreasonable value, for instance set to 1200dpi with a large 24-bit color image, it could even cause the system to malfunction. Setting the resolution too low will result in images with little detail, and the inability to zoom in close when viewing images.

	Bitewing X-rays	**Panoramic x-rays**	**Color photos**	**Documents**	**Color Slides**
Resolution	600dpi	150-300dpi	200dpi	150dpi	600dpi**
Compression	JPEG	JPEG	JPEG	JPEG	JPEG
Color	Grayscale	Grayscale	24-bit color	Grayscale	24-bit color

** Use 1200dpi if you want to later recreate the slide form the scanned image.

Creating a Scanner profile

A **Scanner profile** allows you to save all of your scan settings, making possible *true one-click scanning*. You can create a different profile for each type of media you scan, specifying which scanner, image resolution, active scan area of the scanner bed, color format, and other settings you want for each job, saving you the effort of setting up the scanner each time you scan.



To save settings in a scanner profile, follow these steps:

1. Select **Tools > Device settings…** and click the **Scanners** tab.
2. Click **Add** to open the **Edit Scanner profile** window.
3. Choose a **name** for the scanner profile.
4. Click the **Don't use in** boxes to specify where you don't want the profile to be used. For example, if you are setting up a profile for a x-ray scan, it doesn't need to be visible in the Document view.
5. Choose the **Scanner name** from the pull down list.
6. Select the **Use scanner window** checkbox if you wish the scanner software window to open when scanning. You might set this if you are use a video camera to scan and

you need to see the live video source. Also, if your scanner will not accept settings from the scanner profile, check this box.

7. Select the **Set parameters** checkbox if you want the scanner to automatically use the profile settings. If your scanner will not accept settings from a profile, uncheck this.
8. Select the **Keep scanner window open** checkbox to keep the scanner window open after the scan is completed. This is useful if you wish to create a profile that will scan many consecutive items at one time without resetting the scanner after each scan.
9. Set the **Image format** and **resolution**. These settings will depend on what type of media is to be scanned. See the resolution section below.
10. Set the **Scan mode**
11. Set the desired values for **Gamma**, **Auto-brightness**, **Rotation** and **Mirror**. These settings are useful to adjust scans that will always need correction. If, for example, your scans of X-rays are always backwards and too dark, you could create a profile that would automatically lighten and mirror the image. Selecting **Auto-brightness** will tell the scanner to attempt to automatically adjust the brightness.
12. Check the **Disabled** checkbox if you don't want the profile to set the active scanning area. Use this if your TWAIN driver doesn't support active areas.
13. Set the **active area** for the scan. You can do this two ways: first, by setting the numerical values in the active area settings boxes, second, by clicking the **Learn** button and setting the active area graphically inside the scanner's software window. Activate the scan, and the active areas you selected will be transferred to your profile.
14. Set the **Twain driver model**. Set this option if your scanner's TWAIN driver is one of those listed. If your scanner is not listed, use generic.

Known Scanner problems

Not all scanners will accept all of the settings available in the **Scanner profile** window. If you see an error message regarding one of the settings, disable it, set it to default or set it to 0.

HP scanners use a driver that will not accept the **Scan mode** TWAIN setting from a **Scanner profile**. If you want to use this setting with a HP scanner, then Scanner profiles will not work and you must manually set up the scanner.

Panoramic x-rays will not easily fit inside Twin-plate scanners and often shift out of place when inserted.

If both a scanner and a x-ray sensor are connected to the same workstation via USB, problems can arise. It may be necessary to disconnect one or the other.

Importing images from e-mail

You can import patient images sent to you from another **VisiQuick** user via email. Emailed images can be imported through an email program on the workstation (MAPI), or by a direct connection to an email server (SMTP/POP). When you tell **VisiQuick** to import an image, new email will be scanned for a **VisiQuick** image, and the image will be downloaded and saved.

To import through MAPI you need to have an email client running under Windows, for instance Microsoft Outlook, Outlook Express (Outlook Express 5.5 or newer is required) or Eudora (3.x or newer).

VisiQuick will create a new dentist with name of the image sender. The emailed image will be saved in a new patient record under that dentist. When the image is received, the name of the email sender will be added to the list of dentists, and the image will be stored in a new patient record belonging to that dentist.

Configuring the email settings

First you must make sure email is configured properly in **VisiQuick**.

Configure MAPI

1. Go to **Tools > Communications settings,** Email tab.
2. Select **MAPI**, Click **Configure**.
3. If your email program requires a user profile and password to connect, enter them.
4. Check **Use current MAPI session** if your mail software maintains a constant connection to the Internet.
5. Check **Delete emails after receiving** if you want your email program to delete the email containing the image after the image is received.
6. Check **Display email window when sending** to open the email window when sending an image.

Configure SMTP/POP

1. Go to **Tools > Communications settings,** Email tab.
2. Select **Direct (SMTP/POP)**. Click **Configure**.
3. Select **Dialup** if the workstation uses a modem to connect to the email server, or **LAN** if it uses a network connection.
4. If it is a Dialup connection, select the connection to use from the pull-down menu and check **Disconnect when done** if you want **VisiQuick** to disconnect from the Internet after the image is downloaded.
5. Click the **Mail Servers** tab and enter the settings for the mail server.

Importing an emailed image through an email program (MAPI)

To import an email image, follow these steps:

1. Make sure MAPI is selected in **Tools > Communication settings**
2. Select **File > Receive from Internet** from the main menu.
3. When the email program starts, follow any steps required by the email program to download the email, such as entering passwords.

Importing an emailed image directly with VisiQuick

1. Make sure SMTP/POP is selected in **Tools > Communication settings**
2. Select **File > Receive from Internet** from the main menu.

Using a footpedal

Video window

Single button pedal

A quick click will toggle Live/Freeze video.

A long press will save the current image.

Two-button pedal

The first pedal will toggle Live/Freeze.

The second pedal will save the current image.

Three button pedal

The first pedal will toggle Live/Freeze.

The second pedal will save the current image.

The third pedal opens/closes the Video window.

X-ray window

The pedal will start x-ray image acquisition.

Two-button pedal

The first pedal will start x-ray image acquisition.

The second pedal will save the current image.

Installing on a Network

This section will explain how to install **VisiQuick** on a network and allow **VisiQuick** workstations to share patient records and images from a central database.

Installing VisiQuick on the workstations

First you must install the **VisiQuick** software on each computer you wish to use as a workstation. Insert the Install CD and restart the computer. The installation program will guide you though the installing process.

Finalize VisiQuick settings

After the main installation is finished, the **Finalize VisiQuick settings** dialog box will appear…

License

When prompted, you must provide the installer with the license file supplied with the software CD. If you forget to do this, **VisiQuick** will be installed in demo mode**.** (The license file should be named something like yourname.lic) You can also supply the license file after installation from within **VisiQuick.** Go to the **Application settings** dialog box by selecting **Tools > Application settings…** Click the **license** tab.

Tooth numbering

VisiQuick supports 4 different tooth-numbering schemes. FDI is the most commonly used, but the others are possibilities. This setting can be changed later from within **VisiQuick**, as well.

Date and display properties

Here, the installer attempts to change certain Windows setting for optimal functioning of **VisiQuick**. Boxes are checked next to the functions that the installer recommends you to change. These changes will be made once the **Set date and display properties** button is clicked.

Set color format

It is important to run **VisiQuick** in true-color mode. X-rays and tooth photos cannot be created or viewed in 16-bit color. 32 bit is preferred.

Set display resolution

800x600 is the preferred screen resolution. **VisiQuick** may be awkward to use with lower resolutions.

Set display effects

This option smoothes fonts and turns off Windows animations that slow down VisiQuick.

Installation issues with BDE

It is possible, during installation, that you may see an error message mentioning 'BDE'. BDE (Borland Database Engine) is the driver installed by **VisiQuick** to access its database. Normally BDE installs correctly, however problems may occur if other software on the workstation uses an old or corrupt version of BDE. **VisiQuick** cannot install in this situation. Some software titles known to generate this problem are CorelDraw 8 and later, and AutoCAD.

You must remove the old BDE from the system before VisiQuick will install. Look for the folder **\Program Files\Borland\Common\BDE.** Delete the BDE folder and restart the installation program.

Warning: If software on your system incorrectly stores settings inside the old BDE, it may cease to function properly if the old BDE folder is deleted. CorelDraw and AutoCAD will continue to function normally after **VisiQuick** has installed the new BDE version.

Setting up the server

Once each workstation is up and running, it is necessary to designate a computer as the server. Typically, you would want to use the existing network server. This computer will host all the

VisiQuick database files; sending patient records and images to each workstation, as they are needed. You must decide where on the server the database directories will reside.

> **Important**: Make sure the location you choose for the **VisiQuick** database is accessible by all the workstations on you network, and that it has plenty of disk space to contain the large database files. Keep in mind that the database can expand to several gigabytes as patients and images are stored.

Setting up the server database

To create the central database on the server computer, follow these steps:

1. Find the **VisiQuick** database folder **C:\VisiQuick\Db** on one of the **VisiQuick** workstations. It does not matter which workstation.
2. Rename the folder **Db** to **VisiQuickDb**
3. Using Windows Explorer, move **VisiQuickDb** to the destination you have selected for the server database.
4. In the directory where you have just moved **VisiQuickDb**, create a new folder called **VisiQuickFdb**

The server database is now in place.

Configuring the workstations

Each workstation must be configured to work with the new server database.

Follow these steps:

1. Start up **VisiQuick** on the workstation and ignore any errors about missing databases.
2. Open the **Database settings** dialog box by selecting **Tools > Database settings** from the taskbar and select the 'Database' tab.
3. Change the entry in the **Database path:** window to the full network address of the **VisiQuickDb** folder.
4. Change the entry in the **File-database path:** window to the full network address of the **VisiQuickFdb** folder.

The workstation is now properly configured.

Important: Make sure each workstation is configured correctly. Misconfigured workstations will still operate, but they will not be able to access records in the central database.

Advanced topics

VisiQuick has several advanced features that can help you save time.

Scanner profiles

Using scanner profiles is optional. However, after having configured the scanner profiles, you can save time. Here is a comparison of the work involved when scanning a panoramic x-ray:

With scanner profiles	Without scanner profiles

With scanner profiles	Without scanner profiles
1. Put panoramic film on scanner 2. Open patient 3. Open x-ray window 4. Click once on PAN button (scanner begins scanning using settings from profile; after a while, the image is displayed; while scanning, no driver window is displayed) 5. Done, continue with save.	1. Put panoramic film on scanner 2. Open patient 3. Open x-ray window 4. Click once on PAN button 5. Click on Scanner button (scanner driver window opens) 6. Set gray scale mode 7. Click on the Preview button (scanner scans a preview) 8. Check (set) rotation and mirror 9. Set active area (drag and reposition marquee to outline film in preview window) 10. Set resolution to 150 dpi 11. Adjust contrast and brightness 12. Click on the San button 13. Click on the Close button 14. Done, continue with save.

As you can see, steps 6 to 13 are not needed when using scanner profiles. Is this true? Yes, because steps 6 to 13 must at least be checked every time a scanner session is started. In another session, these settings might be different, and since the scanner driver will remember settings for only one scan, you must check each setting each time you want to scan one or more images (of the same type).

With scanner profiles, a single click will instruct the scanner to scan using the settings stored in the profile.

The drawback is that the scanner profile must be configured. However, this is only done once.

Printer profiles

Using printer profiles is optional. There are several built-in printing options. However, for special printouts, and if you want to use you own design in the printout, the printer profiles comes in handy.

With printer profiles, you fully determine what is printed on the paper. Here is a summary:

- Design you own letter head, including your own logo
- Set the printed size of each image
- Design special printouts with color images and x-rays
- Design your own orthodontic layout

Sending emails

Anybody can send an email. However, if all your staff must be able to send images (without errors), some computer-help is useful. You want as little steps as possible when sending, and still you want the proper information to be sent, depending on who it is sent to.

Exporting jpg images to a folder, and then attaching those to an email is a bit time consuming when you are working with patients. Another matter is who is receiving the email. In what format do they want to get the images? Can they get the phone number of the patient? How much patient information may be sent?

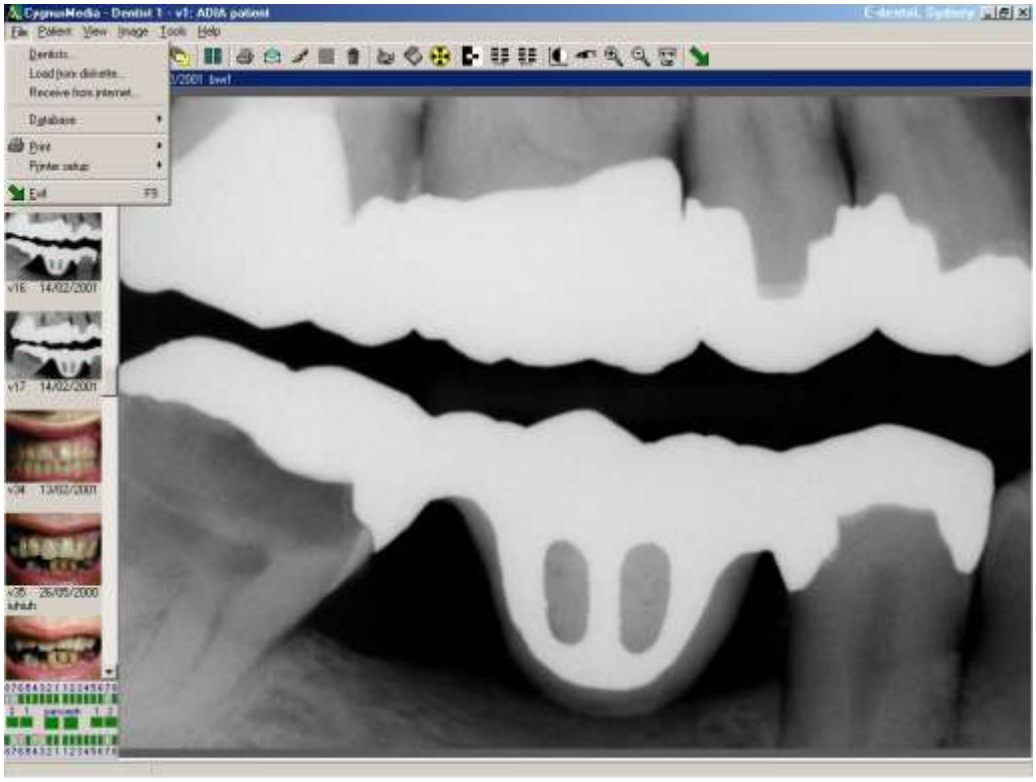
This can all be configured if you let **VisiQuick** send the images. And, if they also use VisiQuick, you can help the receiver save time.

Receiving emails

Dual monitors

Main window

File menu



Dentist item

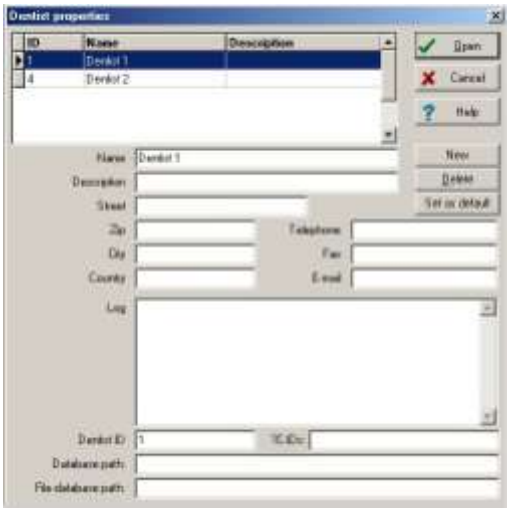
The first function of this window is to enter your practice information, such as name and address. When printing, the name and description fields will be included on the printout.

The second function is to manage access to digitally received information from other dentists. The program automatically stores received patient information separately from your own patients. In addition, each dentist has a logbook in which the history of received information can be viewed.

Please note that the dentist-ID number 1 is where you enter your own practice information.

List of dentists window

In this window, all defined dentists are listed. You must select a dentist before you modify any of the fields or before you press the Open button.



Open button

Opens the selected dentist. You may double-click a dentist in the dentist list to perform this operation.

Cancel button

This function will close the window without selecting another dentist.

Help button

Opens help.

New button

The function will insert a new dentist in the list. The dentist-ID number will be determined automatically.

Delete button

This function will delete the selected dentist from the list, providing that there are patients associated with this dentist.

Set as default button

Pressing this button will determine which dentist will be active when the program is started. The own dentist is normally 1, and this is normally set to be the default.

Name field

Practice or dentist name.

This field will be included in the printout when printing images.

Description field

This is a description of the practice.

This field will be included in the printout when printing images.

Street field

You may enter street name and number here.

Zip field

You may enter a postal code here.

City field

You may enter the city name here.

Country field

You may enter the country name here.

Telephone field

You may enter the telephone number here.

Fax field

You may enter the fax number here.

Email field

You may enter the email address here. This field is only an informational field and will not actually be used as an email address.

Log field

The field will automatically be filled with logging information when data is received from another dentist.

Dentist-ID field

This field is read-only and displays the dentist-ID.

Database path field

This field is for special purpose installations where two or more dentists want to have physically separated databases.

For such installations, this field specifies the path to the database.

File database path field

This field is for special purpose installations where two or more dentists want to have physically separated databases.

For such installations, this field specifies the path to the file database.

Load from diskette item

With this function you manually load/import file attachments from emails sent by other users of VisiQuick. Normally, the program read such attachments automatically.

Receive from Internet item

This function will scan for new e-mails sent by other users using the VisiQuick e-mail function and automatically load/import the attachments with patient and image information.

Database item

Restructure item

This function is used to repair a damaged database. *It should only be used with help of a technical support person.*

It can repair the entire database or only a single part of the database. In addition, it performs a re-index of the selected part.

This function very time consuming (up to several hours) and should only be used when absolutely necessary.

Note that for simple database problems, the Re-index function may be used.

Re-index item

This function is used to repair simple database problems associated with the index files. The function does not take very long to execute.

Statistics item

This function displays database information for the currently selected dentist.

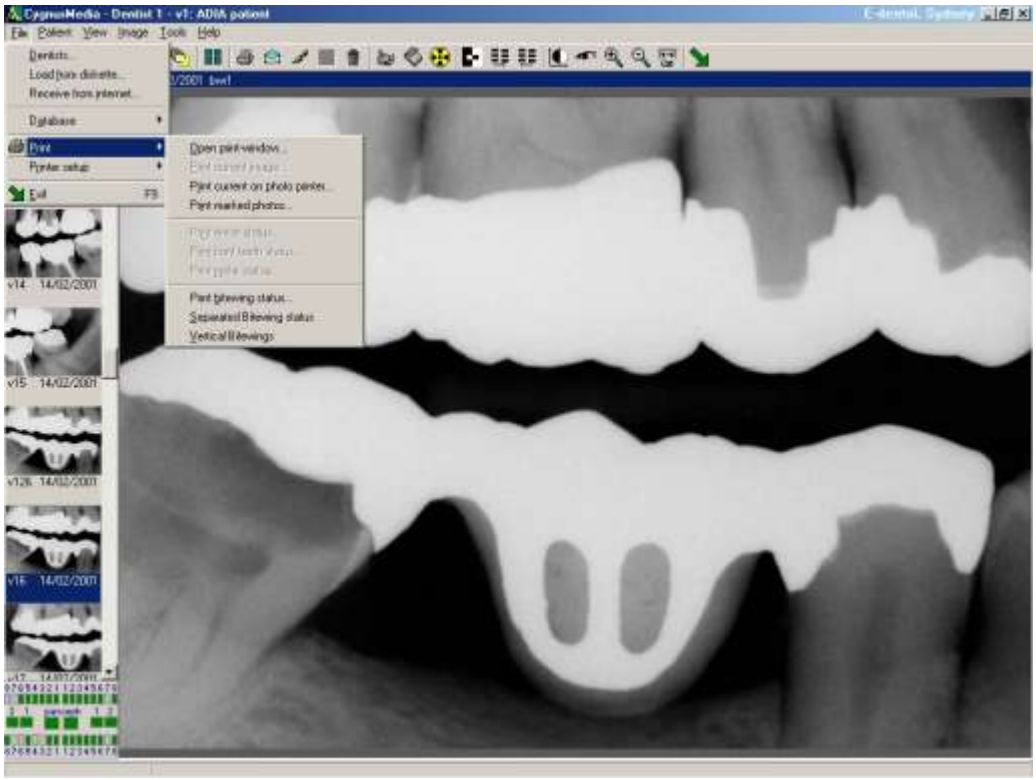
Users item

This function will display a list of the user name of all workstations currently connected to the database.

Check and vqinfo database item

This function is used to fix problems with the database part “vqinfo”. This part of the database stores information of all images. If it becomes corrupted, you may not see images although they are there.

Print item



Open print window item

This function opens a window where you may drag & drop images to be printed. You use this function when you want to print several images in a certain order.

Each page can contain a maximum of four images.

After having filled the window with images to print, click on  .

Print current image item

This function will print the currently selected image.

Print current on image printer item

This function is used when printing on dye-sublimation printers (very high quality printers with small paper size, not inkjet- or laser printers).

Print entire status item

This function prints the entire status on one page. The currently visible images are printed.

Print front teeth status item

This function prints the front teeth and canines on one page. The currently visible images are printed.

Print molar status item

This function prints the molars on one page. The currently visible images are printed.

Print bitewing status item

By default, this function prints the last taken right and left bitewings. It is also used to print bitewings in conjunction with the settings *Separated bitewings* and *Vertical bitewings*.

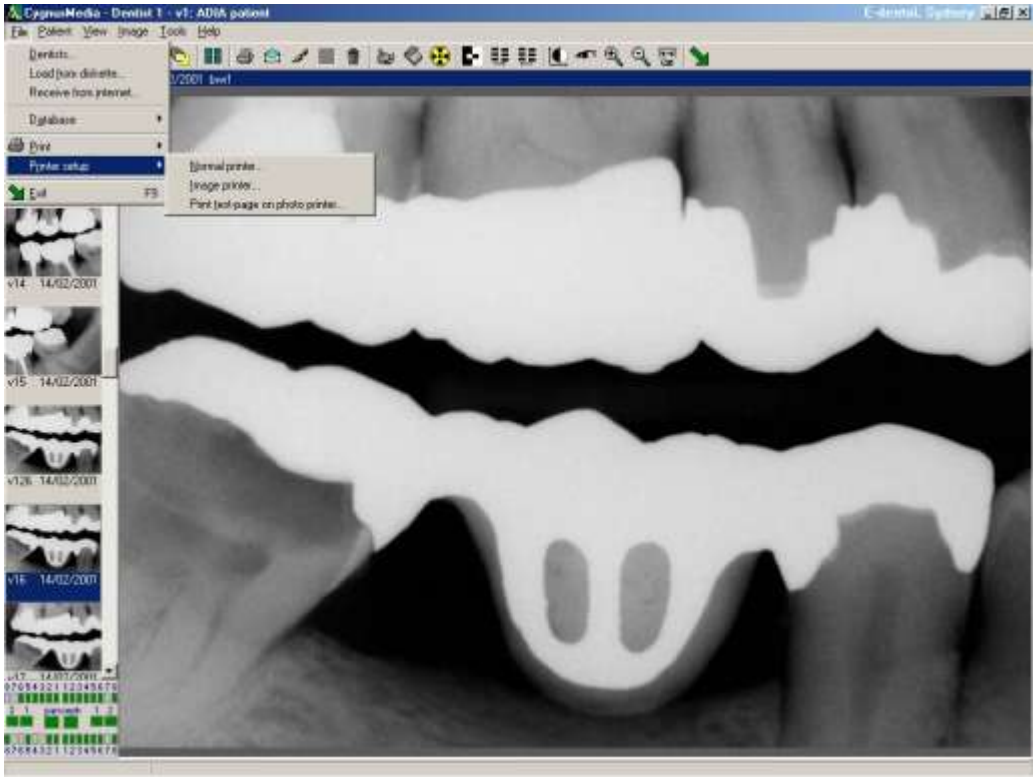
Separated bitewing status item

This setting determines how bitewings are taken: one on each side, or two on each side. You have 4 bitewing positions to take your x-ray (bwr1, bwr2, bwl1, and bwl2). This function allows you to display all 4 positions of your bitewings with two images for a single bitewing position and it is used if 2 x-rays are taken for the same bitewing position e.g. bwr1.

Vertical bitewings item

This setting determines how bitewings are formatted when printed: in landscape- or portrait mode (Vertical).

Printer setup item



Normal printer item

This function is used to select the default printer for normal printouts. A normal printout is a large format page with headers and footers.

Image printer item

This function is used to select the default image printer (high quality dye-sublimation printer). The image printout typically does not include a header and footer.

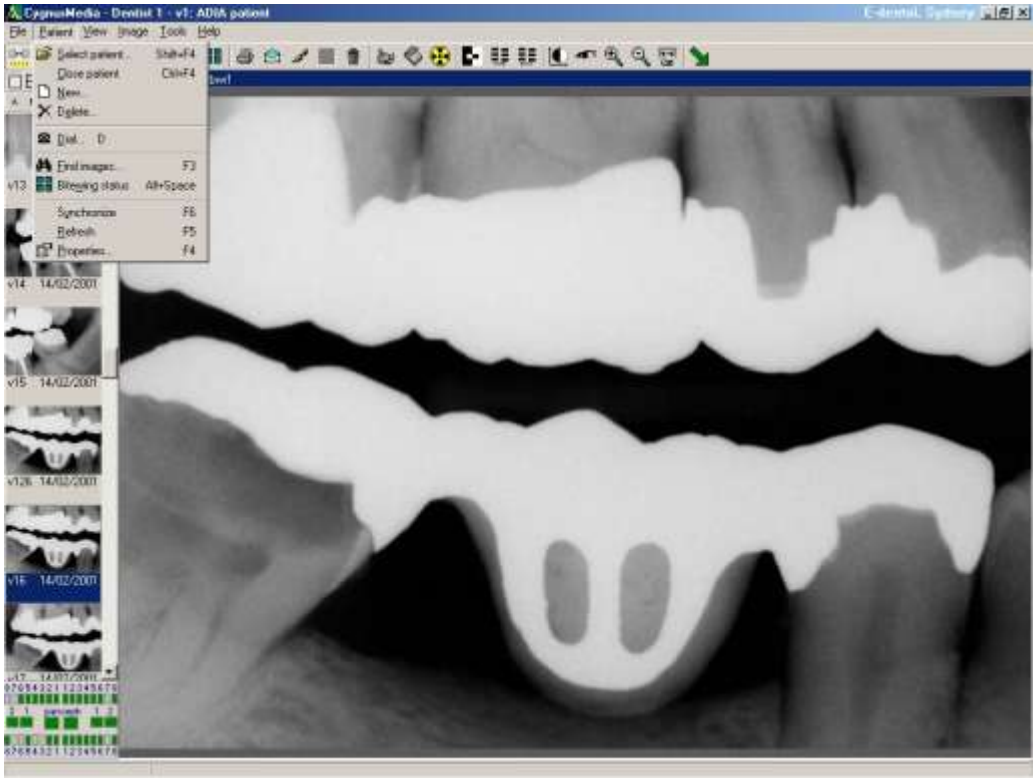
Print test page on image printer item

This function will print a gray scale test page on the image printer.

Exit item

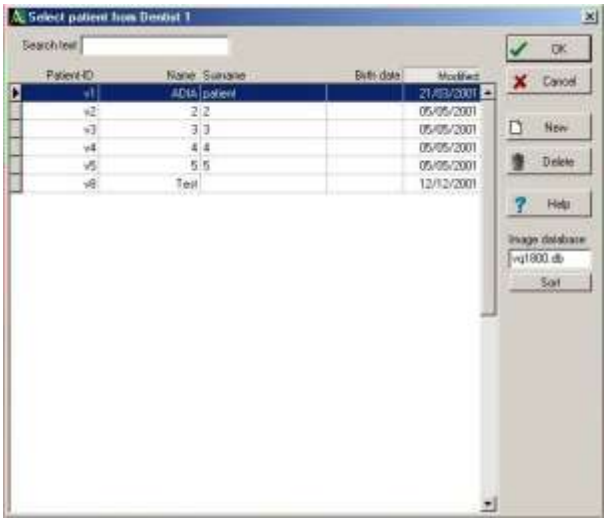
This function will exit the program unless it is running in linked mode with a practice management program; then it will switch back to the practice management program.

Patient menu



Select patient item

This function opens a patient selection window. You use this to open a patient record. If the program is running in linked mode with a practice management program, you normally do not use this function.



Search text field

This field displays the current type-ahead search text. Type-ahead searching allows you to quickly locate a patient. The criteria of the search will depend on the currently active column. Pressing Backspace will delete the search text.

Patient list

This window displays all patients for the current dentist. Clicking on the different column headers does sorting on different columns.

OK button

This button opens the selected patient. You can also open a patient by double-clicking it. You may also open a patient while still keeping the patient list window open by pressing Spacebar.

Cancel button

This button closes the window without selecting another patient.

New button

This button allows you to manually create a new patient. In the patient properties window you may enter all relevant about the patient. Note that the first and last name must be filled in and the other fields may be left blank. You may modify all fields later.

Delete button

This button will delete a patient including all images. Use with caution.

Help button

This button opens the help.

Sort button

This button will sort all patients according to which database table they reside in.

Close patient item

This function closes the currently open patient.

New item

This button allows you to manually create a new patient. In the patient properties window you may enter all relevant about the patient. Note that the first and last name must be filled in and the other fields may be left blank. You may modify all fields later.

Delete item

This button will delete a patient including all images. Use with caution.

Dial item

This function will use the Windows dialer to dial the patient's phone number. This function requires an analog modem to be connected to the phone line.

Find images item

This function opens a window in which you may search for images by their position code.

Bitewing status item

By default, this function displays the last taken right and left bitewings. It is used in conjunction with the setting *Separated bitewings*.

Synchronize item

This function will cause another computer to automatically open the same patient as the currently opened patient on your computer.

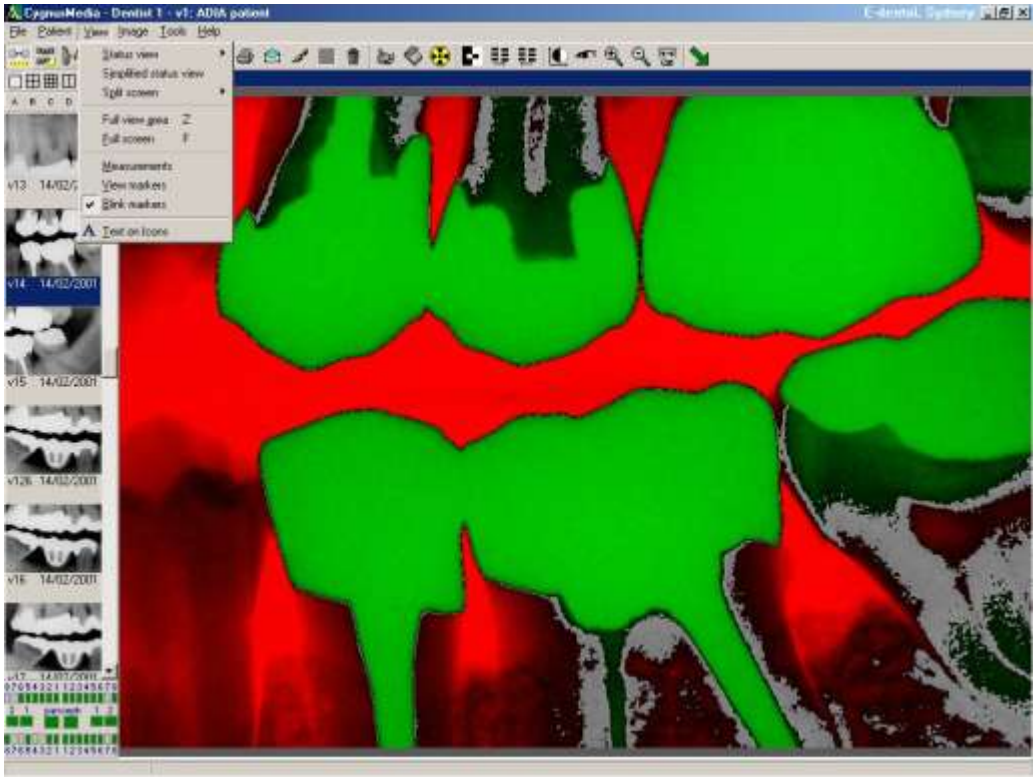
Refresh item

This function will close and reopen the patient.

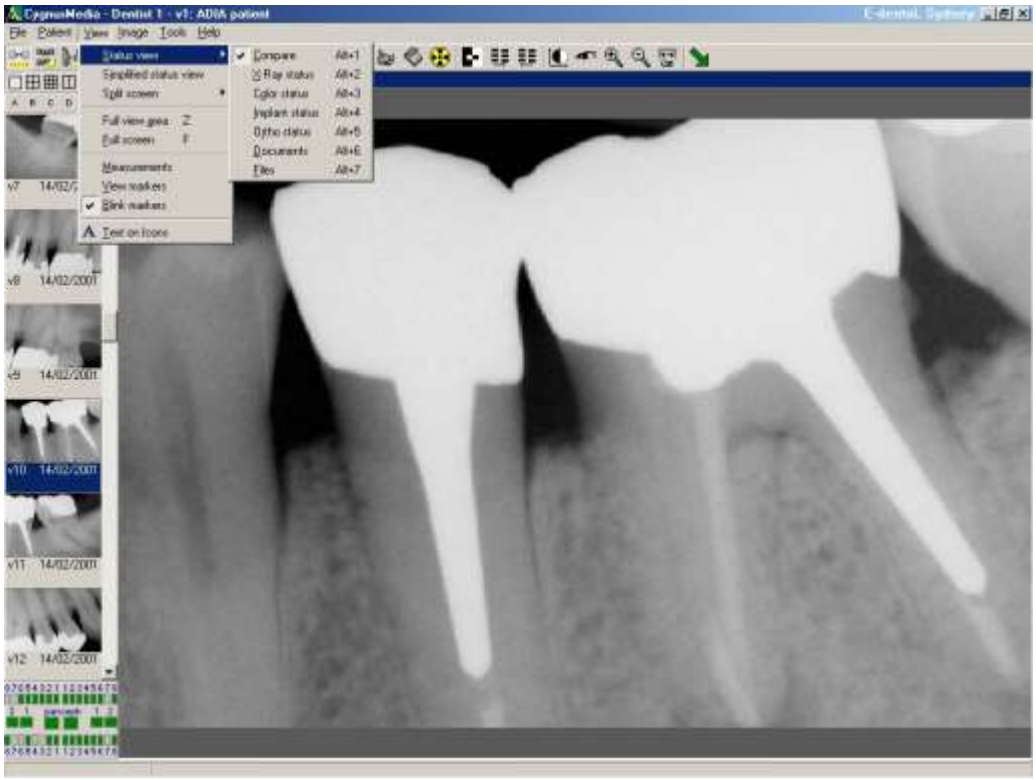
Properties item

This function opens a window with the properties of the patient. You may modify most fields.

View menu



Status view item

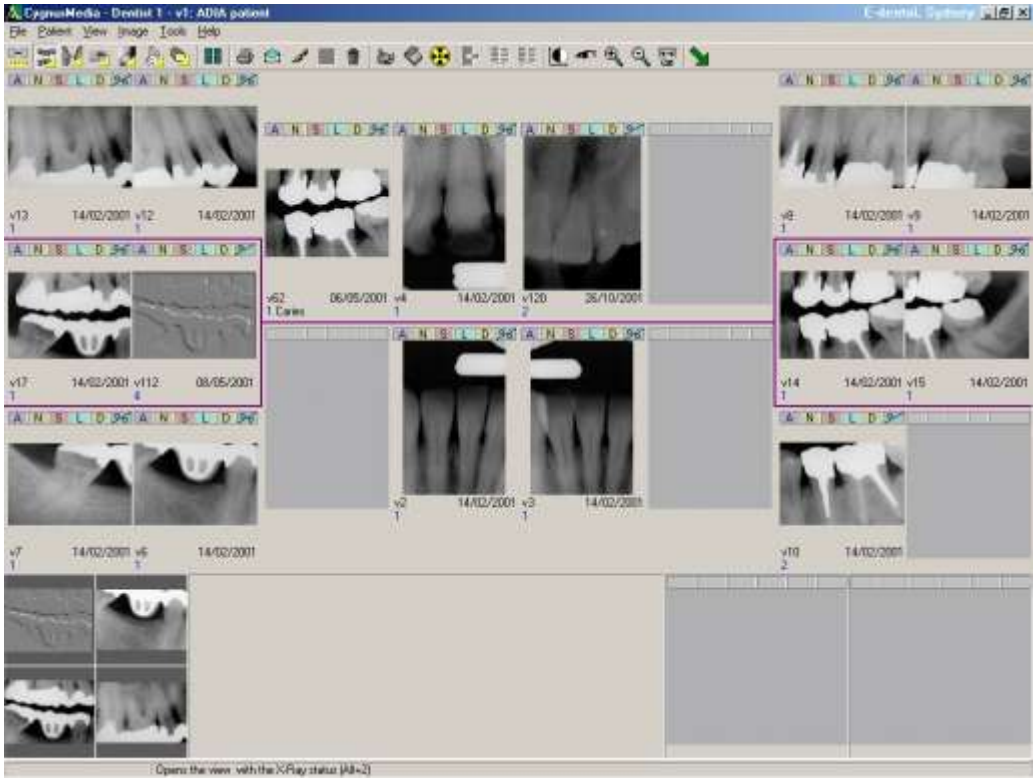


These menu items switch between the different status views.

Compare item

This function opens the compare view where images are displayed.

X-ray status item

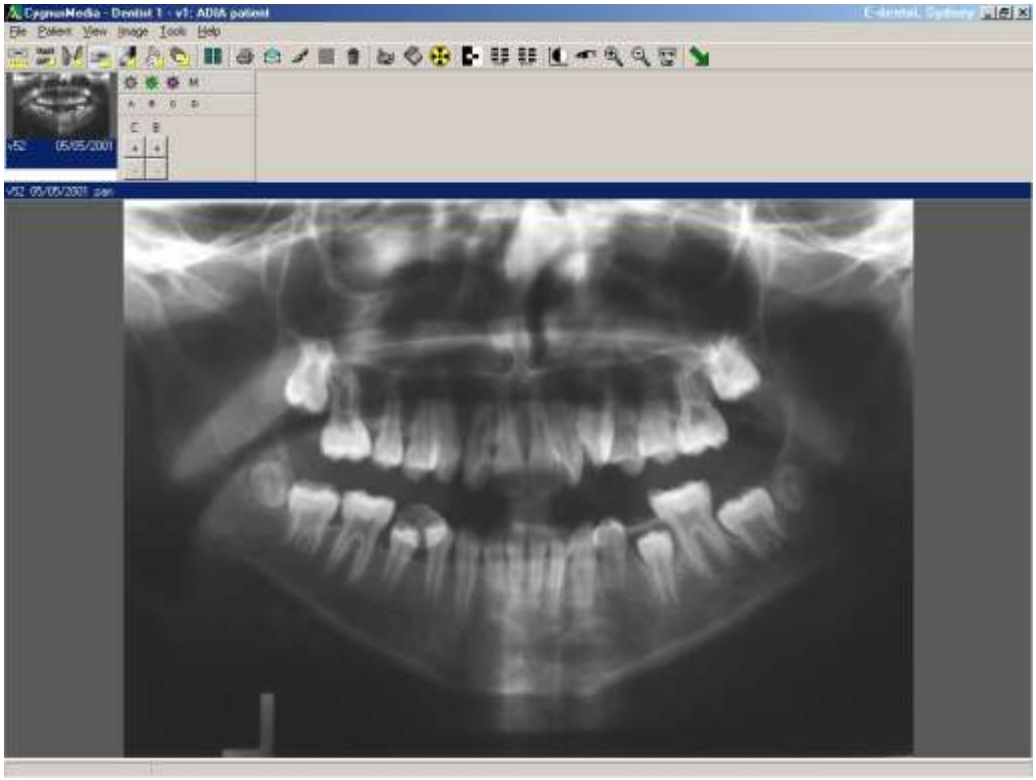


This function opens the x-ray status view where x-rays may be organized.

Color status item

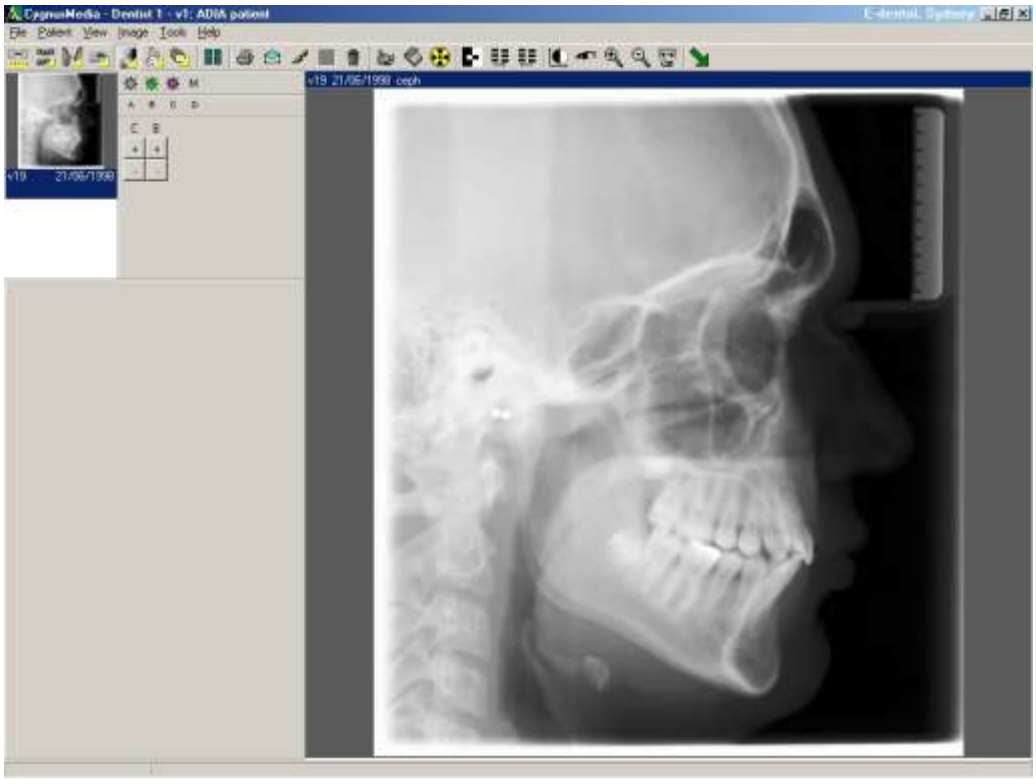
This function opens the Color status view where color images may be organized.

Implant status item



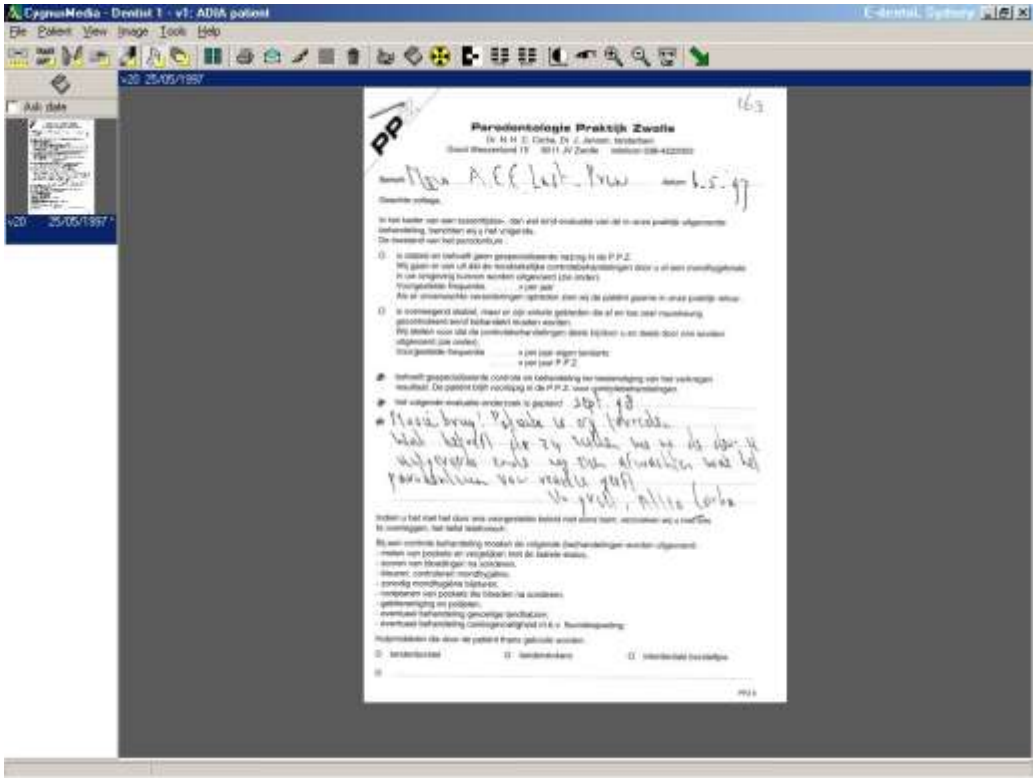
This function opens the implant view where panoramic x-rays are displayed.

Ortho status item



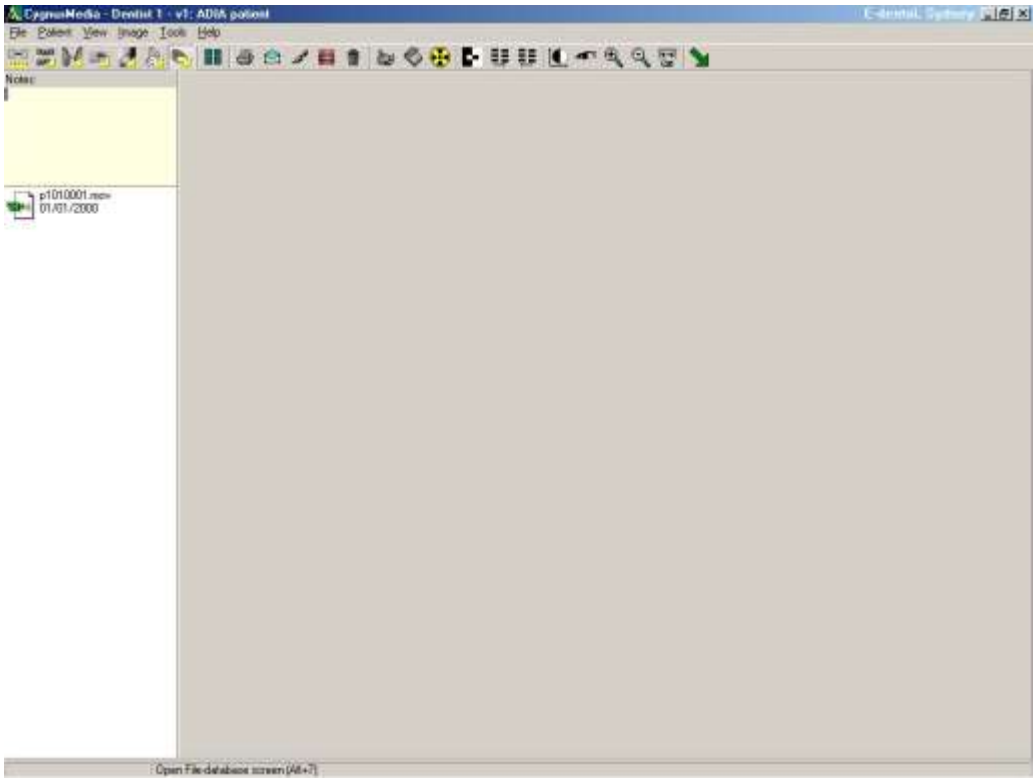
This function opens the orthodontic view where cephalometric x-rays are displayed.

Documents



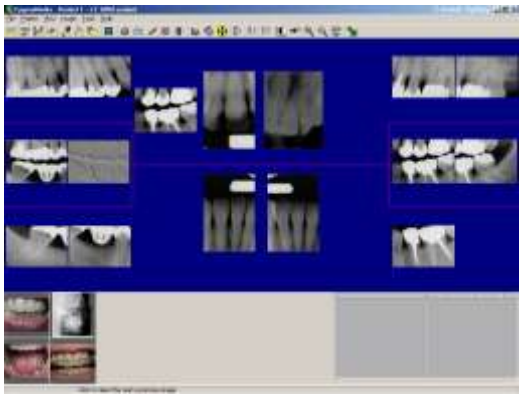
This function opens the document view where documents are scanned in and displayed.

Files



This function opens the Files view where foreign files are listed.

Simplified status view item

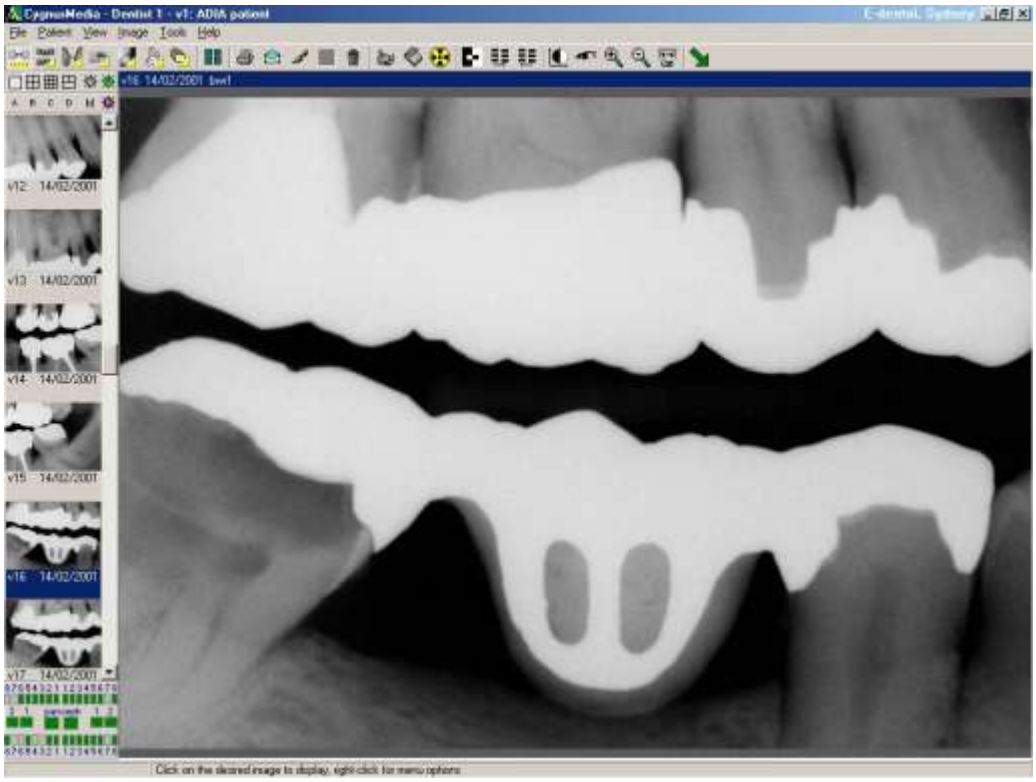


This setting is used for the x-ray and color status where images are displayed without image information.

Split screen item

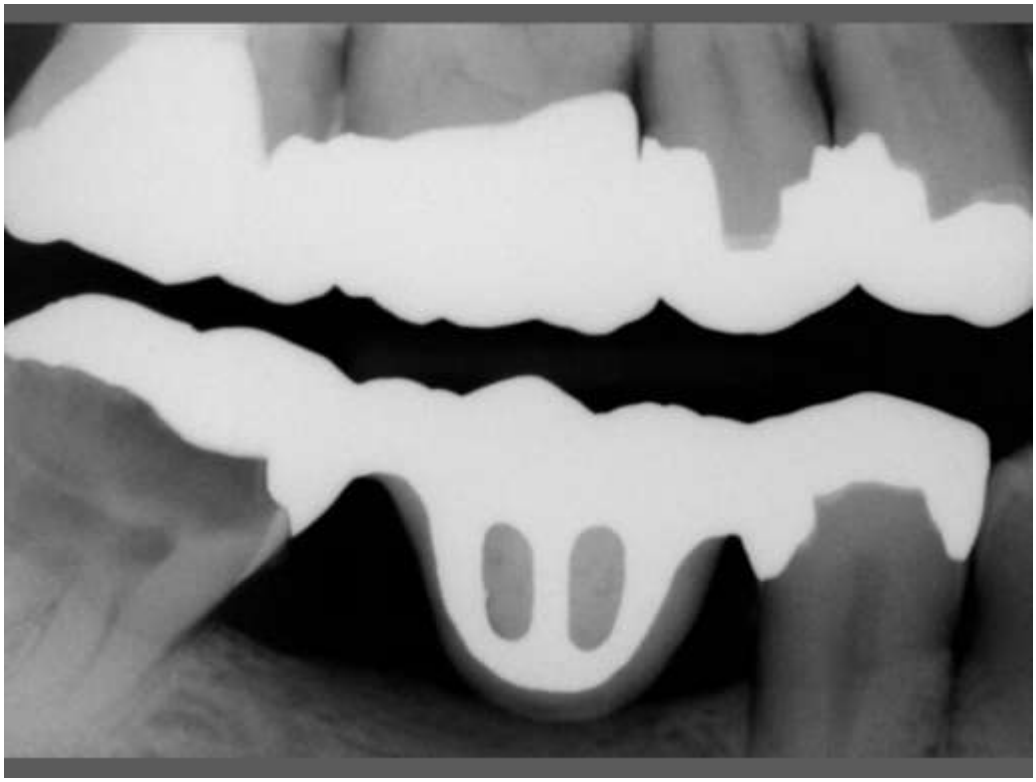
This menu allows you to select the number and type of divisions, in order to display one or more images side by side.

Full view area item



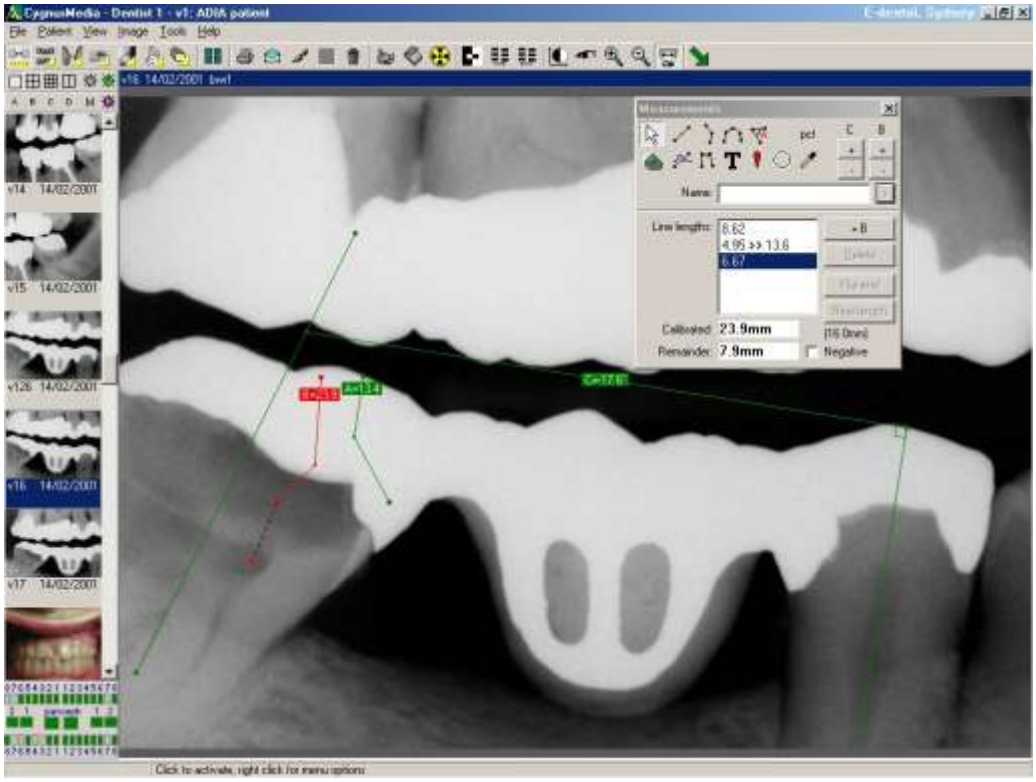
This function is used only in the compare view and it will temporarily display the selected image in single view mode.

Full screen item



This function temporarily displays the selected image in full-screen mode. You exit the full-screen mode by clicking the left mouse button or by pressing Escape.

Measurements item



This setting determines if you want to display measurements in the image even when you are not working with the measurement toolbox window.

View markers item

This setting determines if you want to display markers (pins and color spots) in the image even when you are not working with the measurement toolbox window.

Blink markers item

This setting determines if the markers will blink.

Text on icons item

This setting determines if the toolbar will display additional text labels.

Image menu

New image item

This function opens the x-ray image input window. See X-ray window on page 84 for more information.

Video item

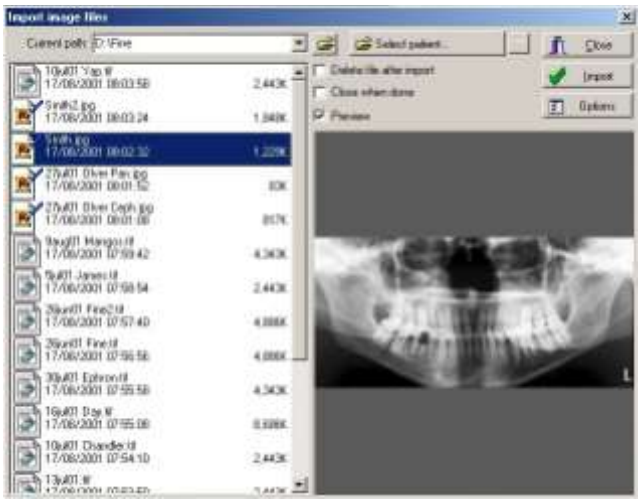
This function opens the video image input window. See Video window on page 94 for more information.

Scanner item

This button is used to scan color images. The function initiates flatbed scanner image acquisition. If scanner profiles are used, it will scan directly; otherwise it will open the currently selected twain driver window.

Import item

This function opens the import window.



Current path field

This field displays the location where files are imported. Previous paths can be selected by clicking the arrow button.

Select path button

This button opens a file path selection window that allows you to select the path where you want to import files from.

Select patient button

This button opens a patient selection window that allows you to select another patient without closing the import window.

Workstations button

This button allows you to quickly open the same patient as is/was open on another computer.

File list

This window displays all files in the current path, sorted on date.

Delete file after import

This setting determines if the imported file(s) should be deleted after the import is done. This is typically used with digital camera situations.

Close when done

This setting determines if the import window should close after importing.

Preview

This setting determines if a preview of the selected file will be displayed.

Close button

This button closes the window.

Import button

This button imports all selected files. If *Delete file after import* is checked, all selected files will be deleted after importing.

Options button

Recompress JPEG images

This setting determines if JPEG files should be recompressed. This setting should only be used when importing from digital cameras.

Display file icon

This setting determines if a file-type icon should be displayed. On some versions of Windows, a thumbnail image will also be displayed.

Export item

This function opens a window that allows you to save an image in a particular file format.

Delete item

This function deletes the selected image. The image will be deleted permanently.

Copy item

This function will place a copy of the selected image on the clipboard.

Duplicate item

This function will create a full duplicate of the selected image.

Tooth whitener item

This function opens the tooth whitener window. The function requires that the selected image is a color image.

Reset all item

This function removes all image manipulation from the selected image, restoring it to its original state.

Rotate/Mirror item

These functions allow you to rotate and mirror the selected image.

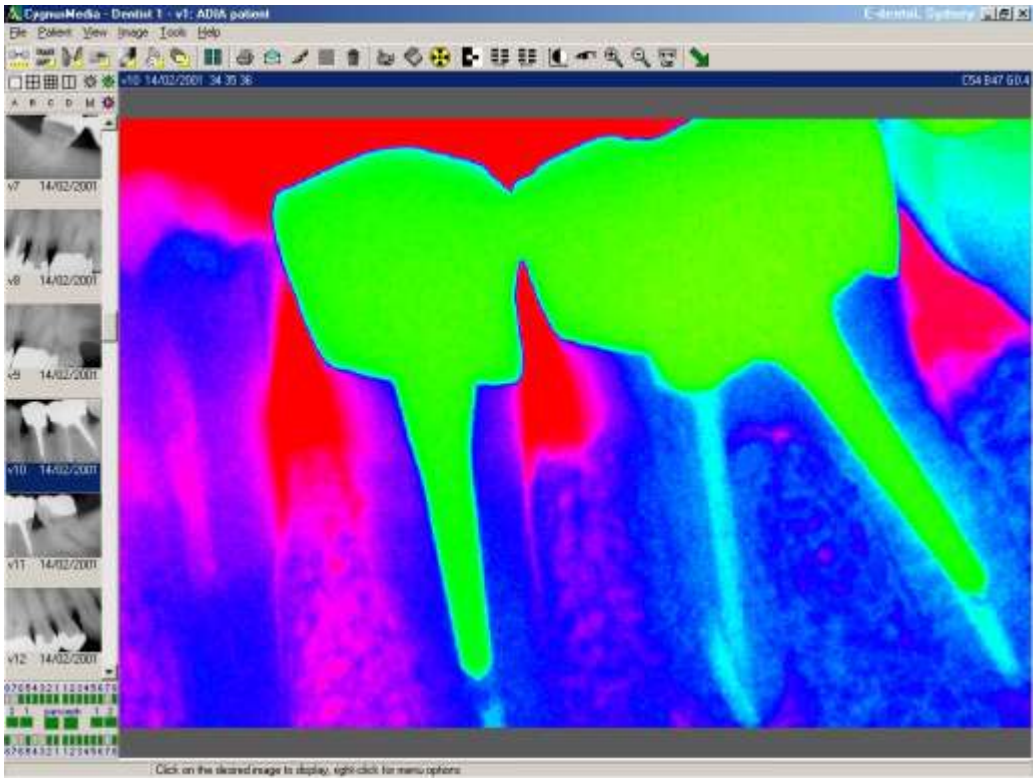
Effects item

These functions are used to toggle various effects on/off.

Negative item

This function displays the selected image either positive or negative.

Pseudo item



This function displays the selected image in pseudo color. The image is displayed with various colors in which each color is representing a different x-ray density. The colors can be adjusted by using the contrast tool  .

Sharpen

This function will sharpen and un-sharpen the selected image.

Smoothen

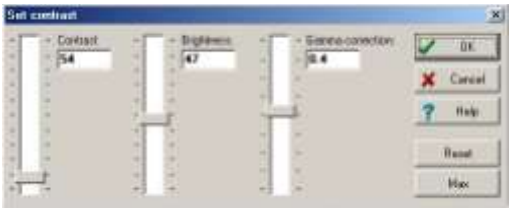
This function will smoothen and un-smoothen the selected image.

Interactive contrast item

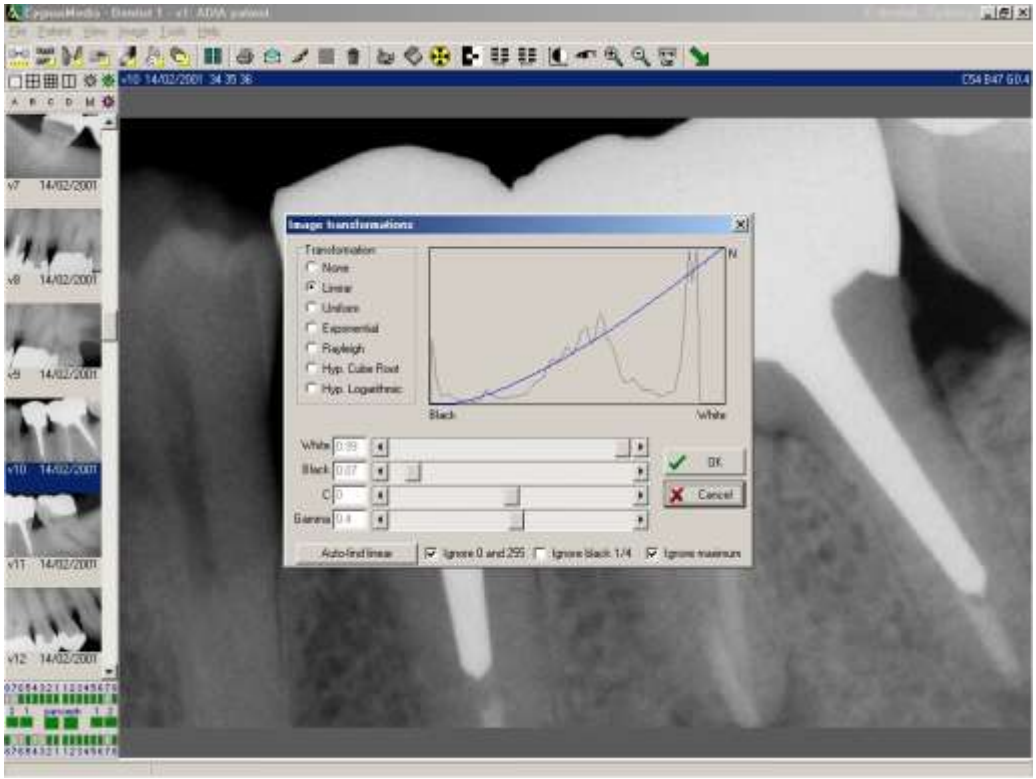
This function will activate a mode that allows you to use the mouse to adjust the contrast and the brightness of the selected image.

Contrast item

This function opens a window that allows you to adjust the contrast, brightness and gamma of the selected image.



Enhance item



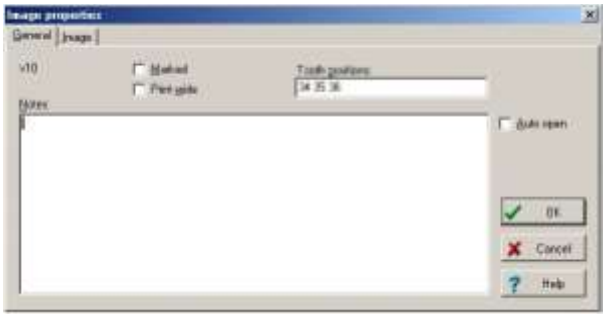
This function open a window that displays a histogram of the selected image, and that allows you to adjust the contrast, brightness and gamma.

Subtract item

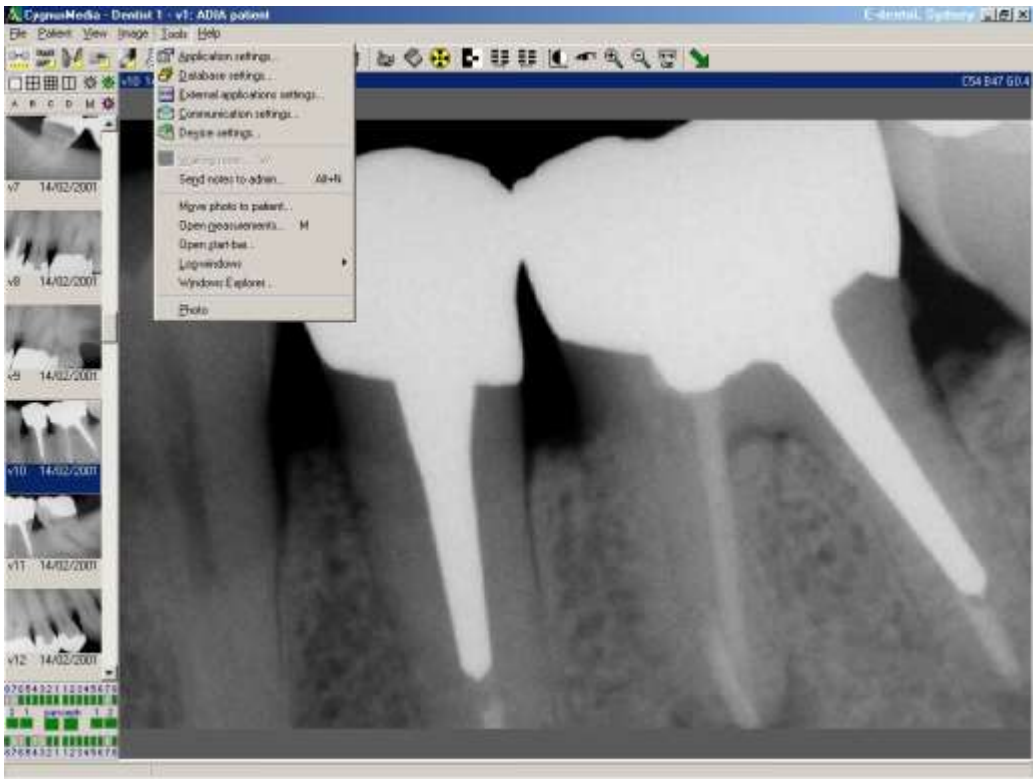
This function activates a mode that allows you to subtract the selected image from another image with identical dimension. By holding the Ctrl-key depressed while releasing the left mouse button, a new image will be created with the resulting subtracted image.

Properties item

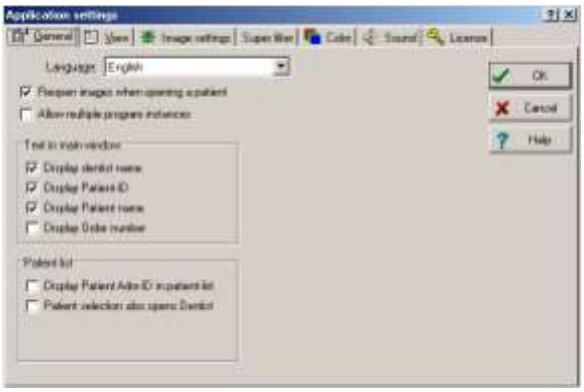
This function opens a window that allows you to view and modify image editable properties, as well as viewing detailed image information.



Tools menu



Application settings item



General

Language

This field determines which language is used.

Reopen image when opening a patient

This field determines if the program should reopen the last displayed images of the patient.

Allow multiple program instances

This field determines if it is allowed to start two or more copies of the program on one computer.

Text in main window

Display dentist name

This setting determines if the name of the current dentist should be displayed in the program caption.

Display patient-ID

This setting determines if the patient-ID of the current patient should be displayed in the program caption.

Display patient name

This setting determines if the name of the current patient should be displayed in the program caption.

Display patient order number

This setting determines if the Order number of the current patient should be displayed in the program caption.

Patient list

Display patient admin-ID in patient list

This setting determines if the admin-ID of the current patient should be displayed in the patient list.

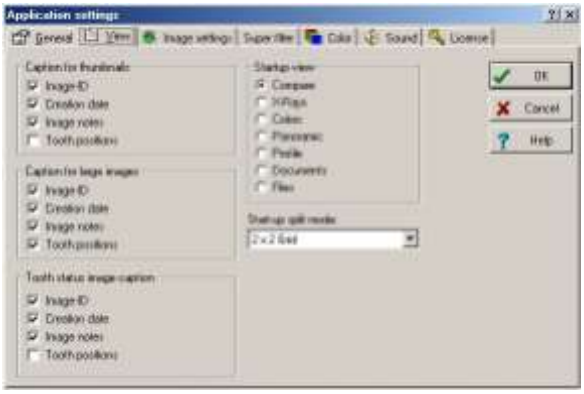
Patient selection also opens

dentist selection

This setting determines if, when opening the patient list window, the dentist list window should also be opened.

This feature is optional; it is part of the LAB-module.

View



Caption for thumbnails

In lists of thumbnail images, this setting determines what information will be displayed under the thumbnail image.

Caption for large images

In the compare view, this setting determines what information will be displayed above the large image.

Tooth status image caption

In a status view, this setting determines what information will be displayed under the thumbnail image.

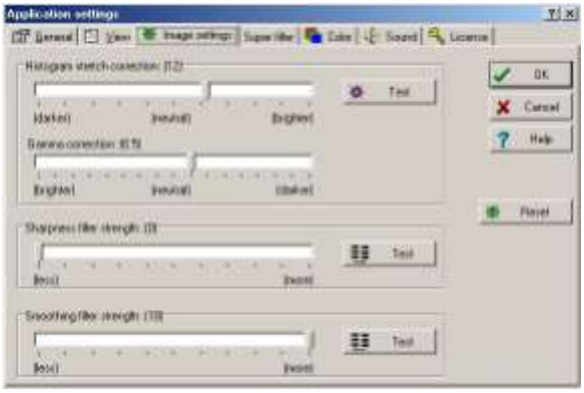
Startup view

This setting determines which view mode will be used when starting the program.

Startup split mode

This setting determines which split mode is used when starting the program.

Image settings



Optimal contrast settings

Histogram stretch correction

The slider determines the brightness level when using the optimal contrast button .

Gamma correction

The slider determines the gamma correction when using the optimal

contrast button  .

Sharpness filter strength

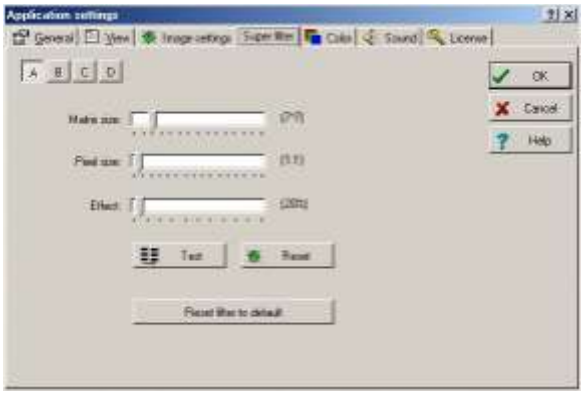
The slider determines the strength of the sharpness filter  .

Smoothing filter strength

The slider determines the strength of the smoothing filter  .

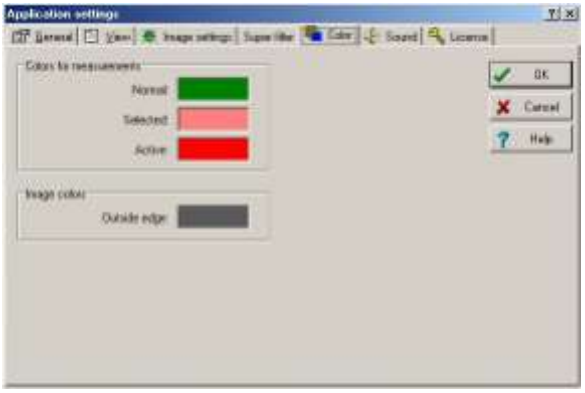
Super filter

These fields are used to tune the super filter buttons A-D.



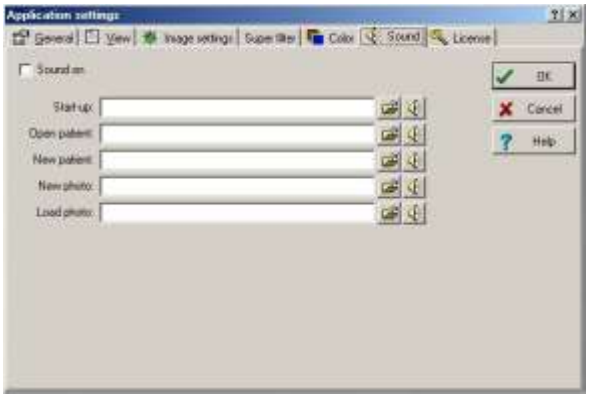
Color

These functions are used to select the colors to use with measurements and for image background color.



Sound

These functions select which sounds to use for various functions in the program.



License

These fields determine the licensing information.

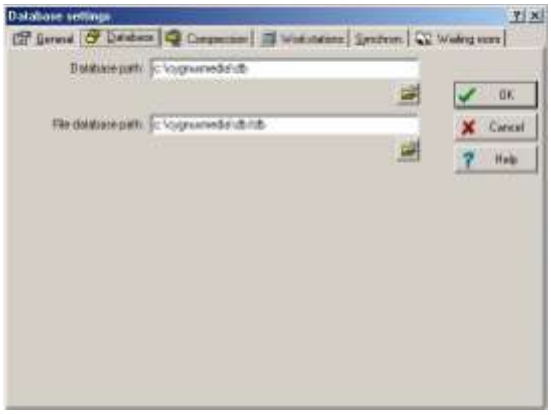
Database settings item

General

Auto-create patient-ID

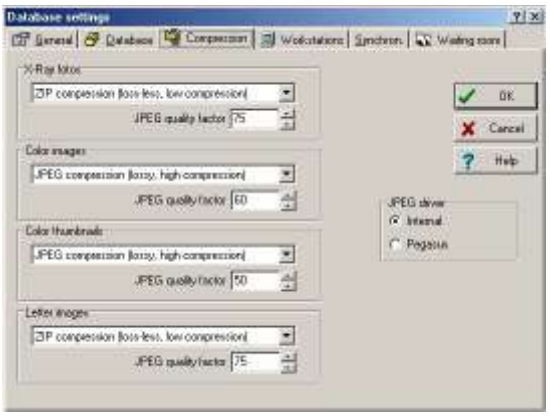
This setting determines if patient-IDs are created automatically when patients are created manually.

Database



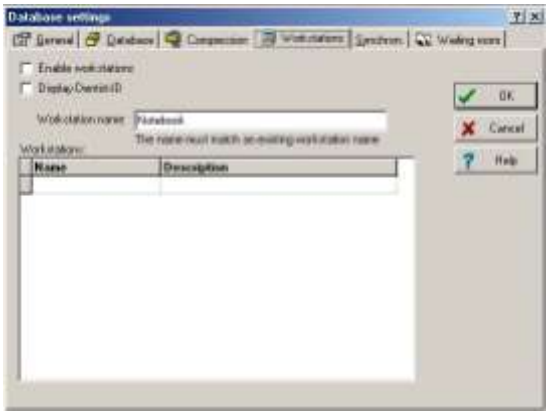
These fields specify the path to the image database and file database.

Compression



These settings determine the type of compression used when saving different types of images.

Workstations



The Workstations feature allows a user to quickly open a patient that is already open, or was opened, on another computer.

Enable workstations

This field determines if the workstation feature is used in this computer.

Display dentist-ID

This field determines if the dentist-ID should be displayed in the buttons

used for patient selection.

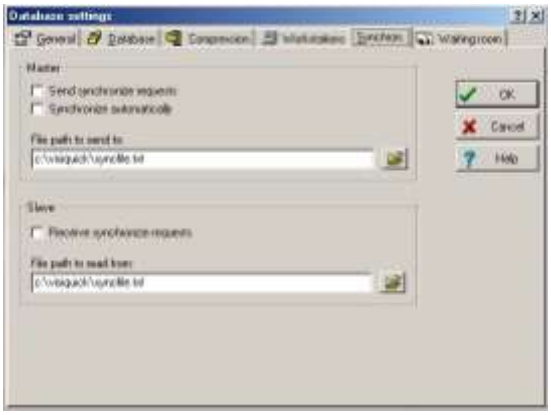
Workstation name

This field determines the name of this computer as seen by other program users.

Workstation list

This lists all computers that will use the workstation feature. Pressing the Insert key will insert a record; pressing Ctrl+Delete will delete a record.

Synchronization



The synchronization feature allows a user to open the same patient on another computer as is already opened.

Master

Send synchronization requests

This setting determines if this computer may send out synchronization commands.

Synchronize automatically

This setting determines if the synchronization is done automatically when a patient is opened.

File path to send to

This field must point to a file on the computer that must be synchronized.

Slave

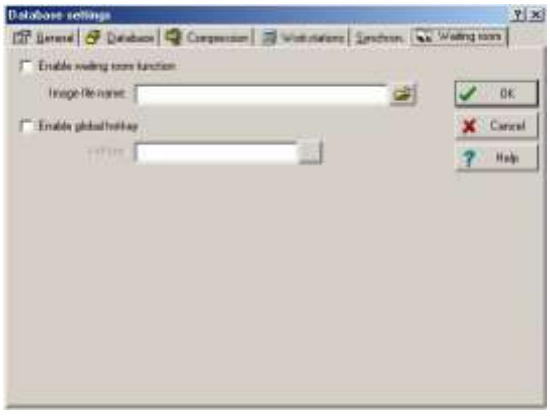
Receive synchronization requests

This field determines if this computer will respond to synchronization requests.

File path to read from

This field must point to a file on the local computer.

Waiting room



This feature allows a user to display a full-screen image taken from a camera looking over the waiting room. An image server program acquires images from the waiting room on one computer. Any other computer may display the image.

Enable waiting room function

This setting determines if the feature is enabled.

Image file name

This field must point to the image file on the computer where the image server is running.

Enable global hotkey

This field determines if global

hotkeys are enabled.

Hotkey

Click here to set the global hot key combination.

External applications settings item

Admin link

Check for modified patient data

This field determines if the program should display a warning window when a patient is linked a second time with different data than the first time.

Use 2-way patient management link

This field determines if the program will send out linking commands to a practice management program.

Use visigb16.exe for dos programs

This field determines if the program uses the program visigb16.exe to link back to the dos practice management program.

Admin status query also opens patient

This field determines if, when a practice management program request a status query for a patient, the program should also open the patient.

Admin tooth link opens in large mode

This field determines if, when a practice management program request opening a single image in the default small mode, it should actually open in large mode.

Center cursor on open patient

This field determines if the mouse cursor should be centered on the program monitor when a patient is opened.

Center cursor on open photo

This field determines if the mouse cursor should be centered on the

program monitor when an image is opened.

Center cursor on return to admin

This field determines if the mouse cursor should be centered on the practice management program monitor when the return button is clicked.

Emulate Schick's CDR

This field determines if the program will register itself as being CDR.

Admin link configuration

This button allows configuring the link to certain practice management programs.

Paint application

Path to images

This field specifies where temporary images should be exported to when linking to a painting application.

Paint application

This field specifies the application file of the painting application.

Program switches

This field specifies any optional command line switches that the painting application needs.

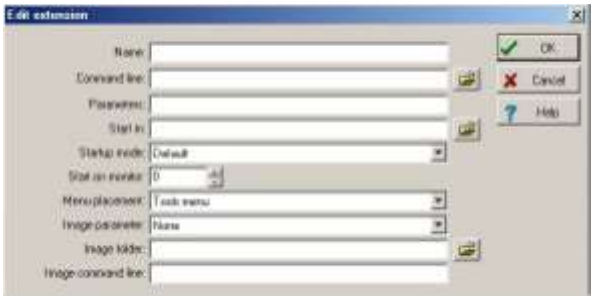
Link mode

This field determines the linking mode.

Extensions

Installed extensions

This is a list of installed extensions.



Add

This button allows you to add an extension.

Delete

This button allows you to delete an extension.

Edit

This button allows you to edit an existing extension.

Enable SmartCeph link

This field determines if the SmartCeph link should be enabled.

Enable Compu-Ceph link

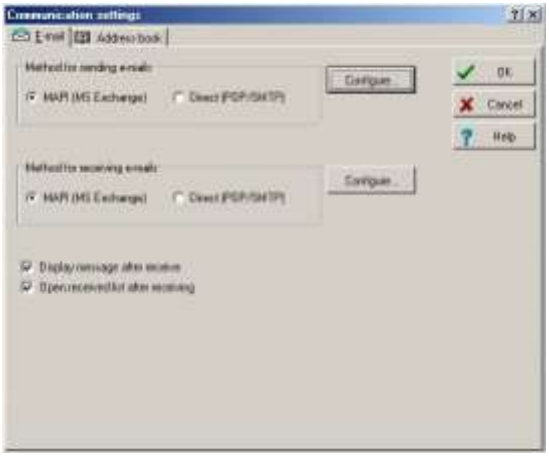
This field determines if the Compu-Ceph link should be enabled.

Enable OTP link

This field determines if the OTP link should be enabled.

Communication settings

Email



Method of sending

MAPI

With this setting, your default MAPI server will be used when sending emails.

User/profile

Password

Use current MAPI session

Delete e-mails after receiving

Internet connection after send

Display e-mail window when sending

Test read

This function allows you to see if the MAPI interface is working. The function will perform these steps:

1. Logging on
2. Listing all e-mails in the In-box

3. Logging off

If these steps are all successful, your computer has a working MAPI installation.

POP/SMTP

With this setting, the program will connect directly to an SMTP server when sending emails.

Method of receiving

MAPI

With this setting, your default MAPI server will be used when receiving emails.

POP/SMTP

With this setting, the program will connect directly to a POP server when receiving emails.

Display message after receive

This setting determines if the program should display a notification message after having receiving an email.

Open received list after receiving

This setting determines if the program should open the window with the logbook of received emails after having received an email.

This feature is optional. It is included in the LAB module.

Address book

The recipients are used when sending e-mails automatically. It allows you to determine the send-format and what data will be sent.

Recipients

This is a list of all configured email addresses.

Add

This button inserts a new email address.

Delete

This button deletes the selected email address.

From system address book

This button opens your Windows address book, from which you can import one or more email addresses.

Displayed name

This field determines the name that will be displayed in the program.

Email address

This field determines the email address.

Send-format

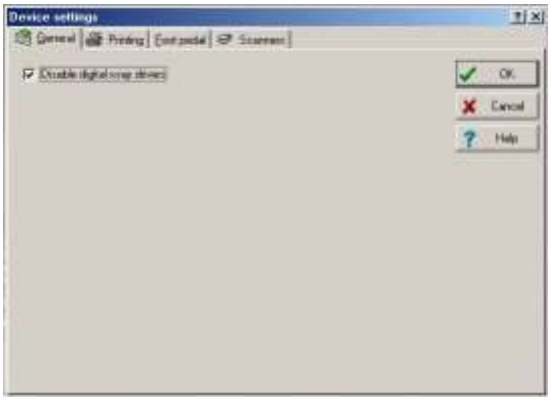
This field determines how the email is sent. Single files is when sending to a person not using VisiQuick.

Send this data

These fields determine which data is included when sending an email.

Device settings item

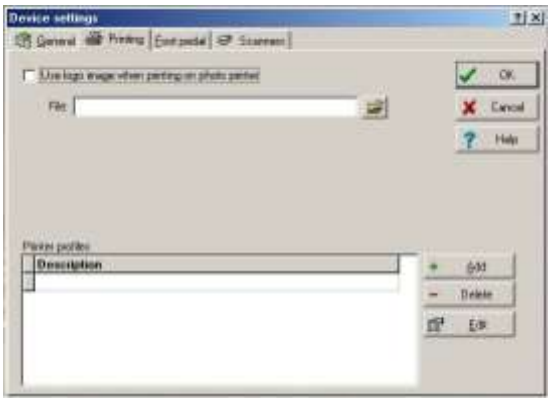
General



Disable digital x-ray drivers

This field determines if the program should not attempt to use any digital x-ray drivers.

Printing



Use logo image on image printer

This field determines if a logo should be included when printing on an image printer.

File

This field specifies the logo image file location.

Printer profiles

List of printer profiles.

Add

This button inserts a new printer profile.

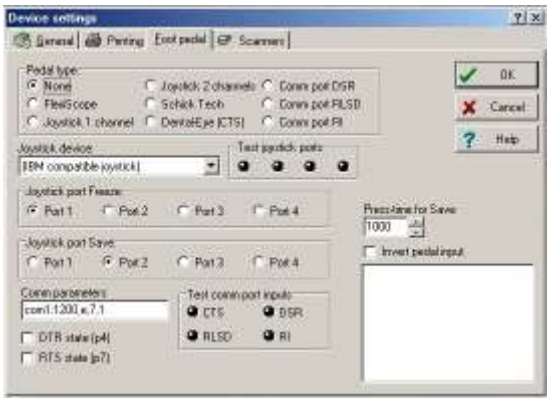
Delete

This button deletes the selected printer profile.

Edit

This button opens a window that allows you to edit the selected printer profile. See Printer profiles on page 106 for more information.

Foot pedal



Pedal type

This field selects the type of pedal used.

Joystick device

For joystick port pedals, this field selects the joystick driver used. For NT, 2000, XP, a driver must be installed first.

Test joystick ports

These indicators allow you to test the joystick buttons.

Joystick port freeze

This field specifies which joystick port the freeze function is connected to.

Joystick port save

This field specifies which joystick port the save function is connected to.

Comm parameters

For comm-port devices, this field specifies the comm port parameters.

Test comm port inputs

These indicators allow you to test the comm ports.

DTR state

This field allows you to set the state of the DTR pin.

RTS state

This field allows you to set the state of the RTS pin.

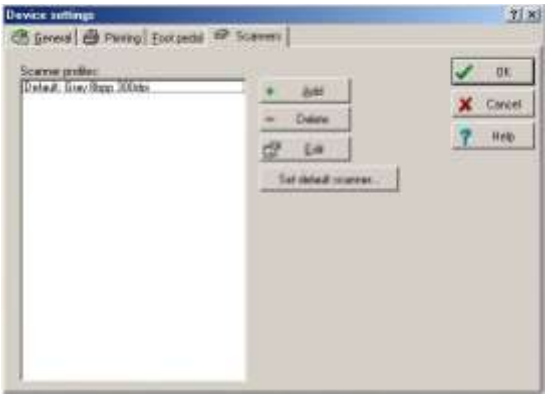
Press time for save

For 1-channel joystick pedals, this field determines the time needed to hold the pedal pressed before the program recognize it as a save-command.

Invert pedal input

This field determines if the joystick or comm port inputs should be inverted.

Scanners



Scanner profiles

This lists all configured scanner profiles.

Add

This button allows you to insert a new scanner profile.

Delete

This button allows you to delete the selected scanner profile.

Edit

This button allows you to edit the selected scanner profile. See Scanner profiles on page 106 for more information.

Set default scanner

This button opens a list of installed scanners (twain drivers). The default scanner is used when scanner profiles are not used.

Waiting room item

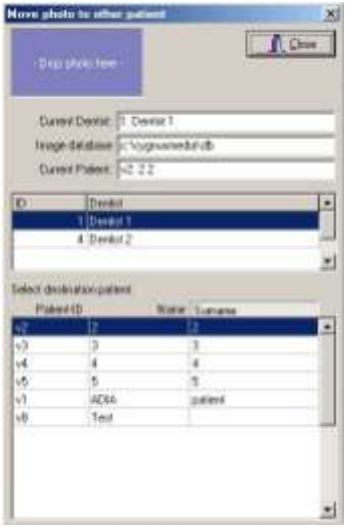
This function requests a new image from the waiting room image server. The image is displayed in full-screen mode.

Send notes to admin item

This function allows you to enter practice management commands from VisiQuick.

Move photo to patient item

This function allows you to move images to another patient. Drag to image to b moved and drop it on the colored field. First make sure that the destination patient is selected in this window.



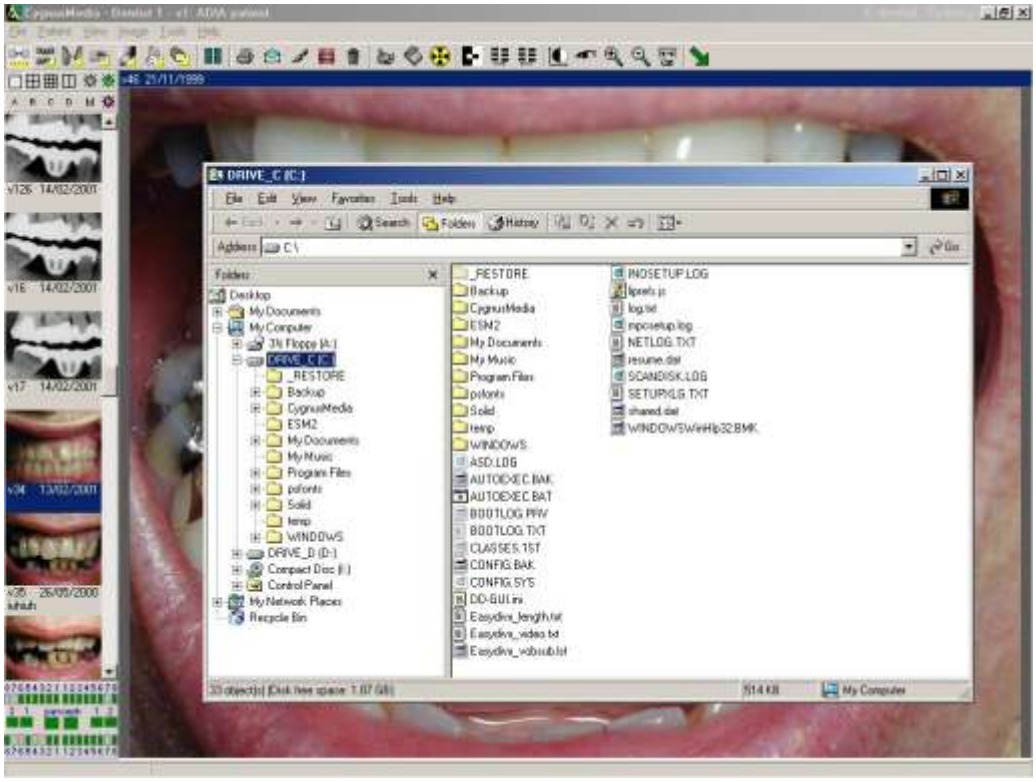
Open measurements item

This function opens the Measurements toolbox. See Measurement window on page 98 for more information.

Log-windows item

These functions are used only by technical support and allow you to debug linking problems, as well as other problems.

Windows Explorer item



This function opens the Windows Explorer.

Help menu

Contents item

This function opens the help table of contents.

Search help on item

This function opens the help index.

Help on help item

This function explains how to use the help system.

VisiQuick on the Internet item

This function opens your Internet browser, pointing it to the VisiQuick site.

Send mail to support item

This function opens your email program, addressed to support.

Send mail to Thomas Monitor Systems item

This function opens your email program, addressed to Thomas Monitor System.

About item

This function opens a window with version and licensing information.

Toolbar

Compare view

This button activates the compare view. This view is for viewing and manipulating all images.

X-ray status view

This button activates the x-ray status view. This view is for viewing and organizing x-ray images.

Color image status

This button activates the color status view. This view is for viewing and organizing color images.

Implant status

This button activates the implant status view. This view is for viewing and manipulating panoramic x-ray images.

Ortho status

This button activates the Ortho status view. This view is for viewing and manipulating cephalometric x-ray images.

Document view

This button activates the document view. This view is for viewing scanned documents.

Files view

This button activates the Files view. This view is for managing imported files.

Bitewing status

By default, this function displays the last taken right and left bitewings. It is used in conjunction with the setting *Separated bitewings*

Print

Open print window item

This function opens a window where you may drag & drop images to be printed. You use this function when you want to print several images in a certain order.

Each page can contain a maximum of four images.

After having filled the window with images to print, click on  .

Print current image item

This function will print the currently selected image.

Print current on image printer item

This function is used when printing on dye-sublimation printers (very high quality printers with small paper size, not inkjet- or laser printers).

Print entire status item

This function prints the entire status on one page. The currently visible images are printed.

Print front teeth status item

This function prints the front teeth and canines on one page. The currently visible images are printed.

Print molar status item

This function prints the molars on one page. The currently visible images are printed.

Print bitewing status item

By default, this function prints the last taken right and left bitewings. It is also used to print bitewings in conjunction with the settings *Separated bitewings* and *Vertical bitewings*.

Separated bitewing status item

This setting determines how bitewings are taken: one on each side, or two on each side. You have 4 bitewing positions to take your x-ray (bwr1, bwr2, bwl1, and bwl2). This function allows you to display all 4 positions of your bitewings with two images for a single bitewing position and it is used if 2 x-rays are taken for the same bitewing position e.g. bwr1.

Vertical bitewings item

This setting determines how bitewings are formatted when printed: in landscape- or portrait mode (Vertical).

Email

Thumbnail list

Drop images here to include them when sending.

Remove all

This button removes all thumbnail images. It does not delete them.

Send

This button displays a menu selection. The first part allows the users to send images to an unspecified email address, in a certain format. Selecting a format will cause the program to ask for an email address, after which the program will begin sending to that address. The second part lists all defined email addresses. Selecting an address will immediately start sending to that address.

Export to disk

This button will write a transport file to disk.

Subject

This field determines the subject of the email.

Message

This field determines the message of the email.

Edit photos

Start painting program button

This button will launch the configured painting program. All selected images will be exported to the configured folder and the painting program will load these.

Thumbnail list

Drop images here to be opened by the painting program.

Closing the window

When closing the paint selection window, a cleanup window will open. This window is used to import modified image files, and/or to delete them after importing.

Temporary files to delete

This lists all files in the temporary folder. Multiple files may be selected by click-dragging the mouse or by depressing the shift and control keys while clicking the mouse.

Erase

This button will delete all selected files.

No

This button will close the window.

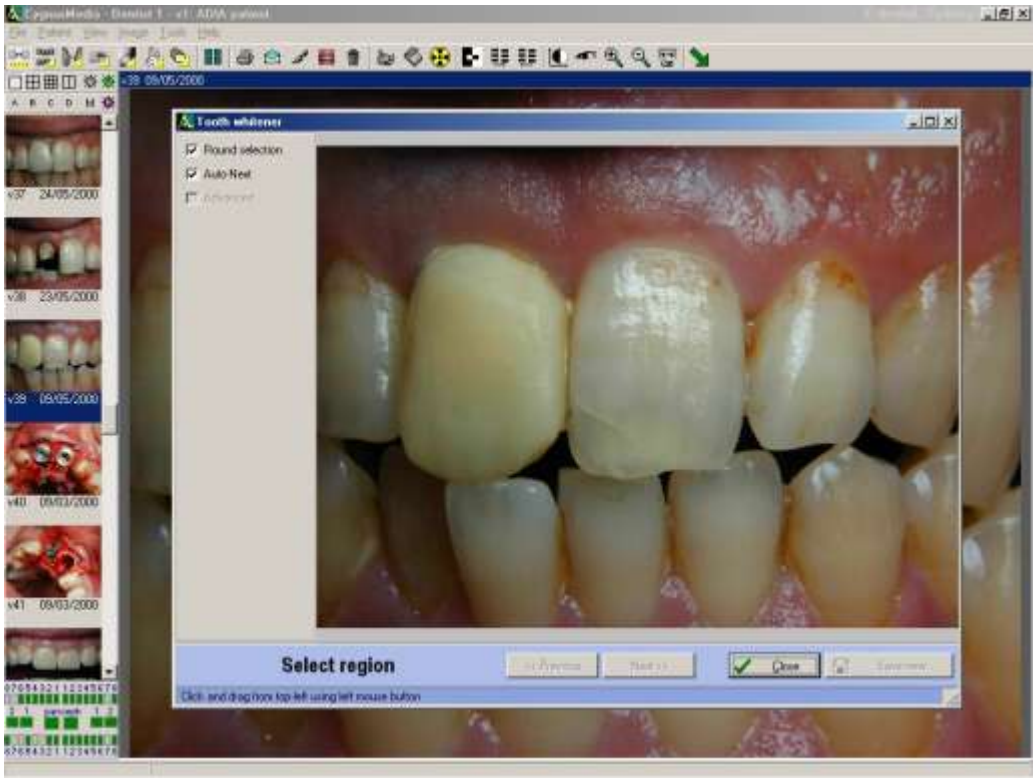
Import

This button will import an image file from the temporary folder.

Select all

This button will select all the files in the temporary folder.

Tooth whitener



This button will open the tooth whitener simulation window allowing the user to simulate tooth bleaching. The function requires that a color image be selected.

Select region

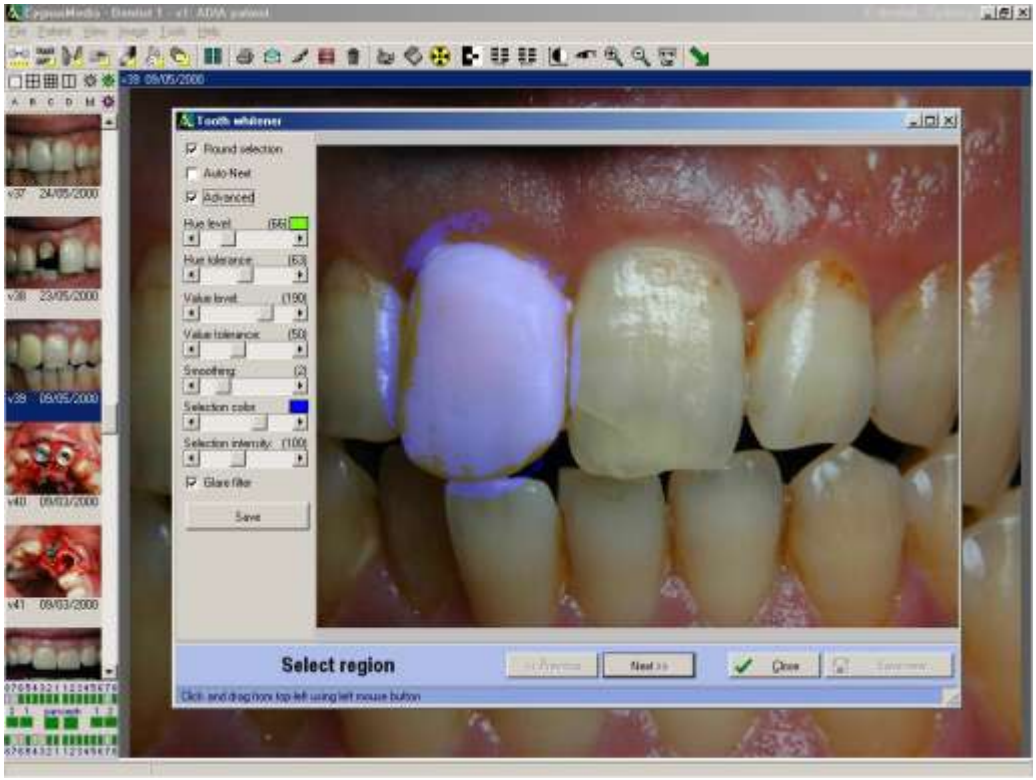
Round selection

This setting determines if the selection will be elliptical or rectangular.

Auto-next

This setting determines if the next step is automatically opened after a selection has been made.

Advanced



This button is only enabled if a tooth selection is made.

Hue level

This field determines which tooth color that will be used when auto-detecting.

Hue tolerance

This field determines the color range when auto-detecting.

Value level

This field determines which tooth value ("whiteness") that will be used when auto-detecting.

Value tolerance

This field determines the value tolerance that will be used when auto-detecting.

Smoothing

This setting determines how soft the edges of the auto-detected tooth will be.

Selection color

This setting determines the color of the selection.

Selection intensity

This setting determines the intensity of the selection.

Glare filter

This setting determines if glares should be removed automatically.

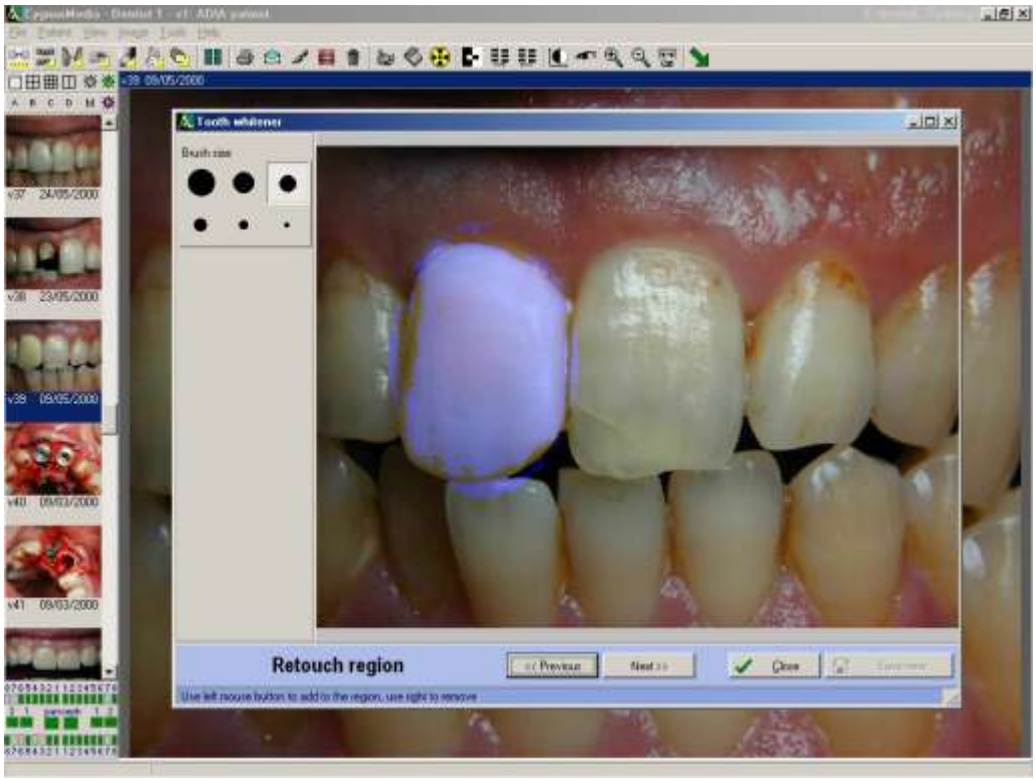
Save

This button saves all fields to the configuration file.

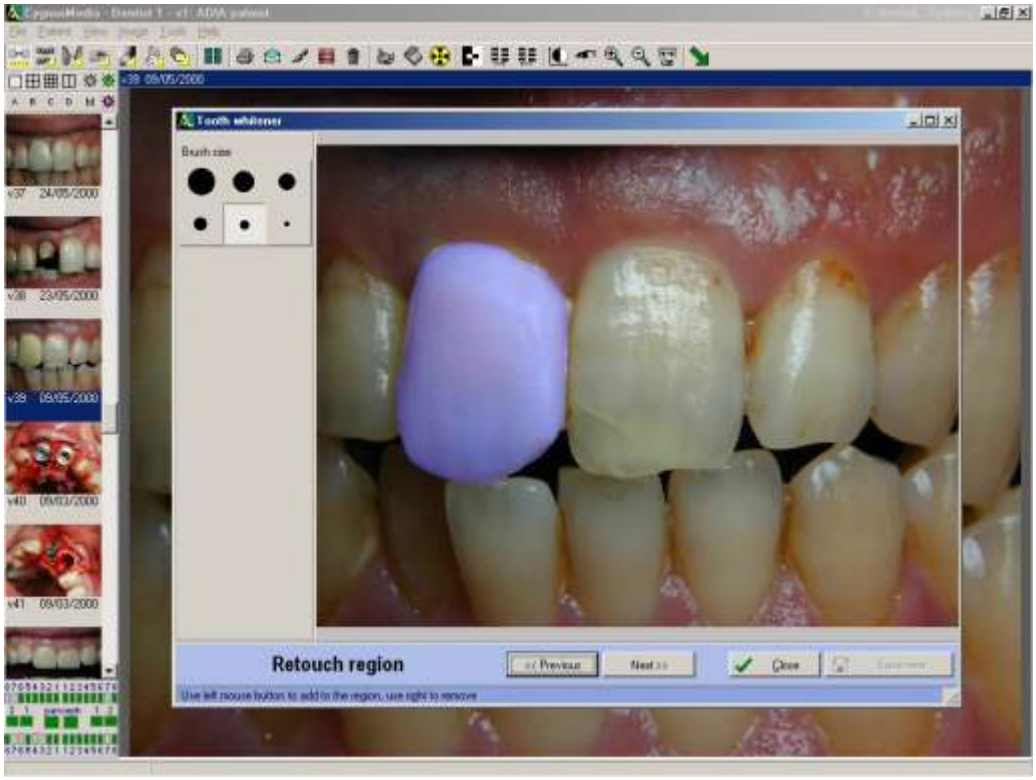
Work area

In this window a selection of teeth is made, using the mouse.

Retouch region



(Retouch region before)



(Retouch region after)

Brush size

These buttons select a retouch brush size.

Work area

In this window, the mouse is used to retouch the tooth selection. The left mouse button adds to the selection, the right mouse button removes from the selection.

Adjust whitening

Effects

This setting determines the strength of the whitening simulation.

Whitening on button

This button toggles the simulation on and off.

Advanced

Value effect

This field determines how bright the selection will be made.

Saturation effect

This field selects the amount of original tooth color that is used.

Save

This button saves all fields to the configuration file.

Work area

This window displays the simulation result.

Close

This button closes the window.

Save as new

This button saves the displayed image as a new image.

Delete

This button permanently deletes the selected image.

Video image

This button opens the video window. See Video window on page 94 for more information.

Scanner

This button is used to scan color images. The function initiates flatbed scanner image acquisition. If scanner profiles are used, it will scan directly; otherwise it will open the currently selected twain driver window. See Scanner profiles on page 106 for more information.

Add x-ray image

This button opens the new x-ray window. See X-ray window on page 84 for more information.

Negative

This button will toggle negative/positive mode on the selected image.

Sharpen

This button will toggle sharpened/normal mode on the selected image.

Smooth

This button will toggle smooth/normal mode on the selected image.

Contrast

This button has two functions.

- Clicking with the left mouse button.
  Activates adjusting the contrast and brightness using the mouse in the image. The initial click will reset the contrast and brightness to neutral values. Moving to the right will increase the contrast. Moving up will increase the brightness.
- Clicking with the right mouse button.
  Opens a window that allows the user to manually adjust the contrast, brightness and gamma.

Auto contrast

This button activates auto-contrast mode. This mode is used by means of clicking in the image with the left mouse button. The contrast of the image will be set to 80. The brightness will be set to the average brightness of the selection rectangle.

Zoom in

This button activates zoom in mode. In this mode, the image will slowly be enlarged when the user clicks on the image using the left mouse button. The middle mouse button will zoom out while in this mode.

Rolling the mouse wheel will also zoom in and out.

Zoom out

This button activates the zoom out mode. In this mode, the image will slowly revert to its original size when the user clicks on the image using the left mouse button.

Measurements

This button will open the measurement toolbox window. See Measurement window on page 98 for more information.

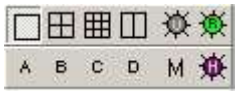
Back

This button has two functions:

- Linked mode.
  In this mode, the button will return to the linked practice management program.
- Unlinked mode.
  In this mode, the button will exit the program.

Views

Compare view



Split-buttons 

These buttons has two functions:

- Left click.
  This function will change the division of the work area to the indicated mode.
- Right click.
  This function allows the user to define the mode of the button.

Histogram equalization 

This button performs histogram equalization on the selected image.

Reset image 

These buttons has two functions:

- Left click.
  This function will reset the selected image to the original state. It may possible be modified according to its second function.
- Right click.
  This function allows the user to define the parameters of the first function.

Super filters 

These buttons toggles the super filter on/off on the selected x-ray image.

Median filter 

These buttons toggles the median filter on/off on the selected x-ray image.

Optimal contrast 

This button will set optimal values for contrast, brightness and gamma.

Thumbnail image list

This lists all thumbnail images for the current patient. It is sorted on creation date.

Tooth status view

This window displays the status of the tooth positions, indicating if any images are assigned to the positions.

The mouse has two functions:

- Left click.
  This function displays a menu that allows the user to open a specific image or all images.
- Right click.
  This function allows the user to configure the indicator.

Work area

This area displays one or more windows with opened images.

X-ray status view

Image position window

This window holds one or more thumbnail images with its information.

Toolbar

A

This button will first clear the preview window, and then open all images in the preview window.

N

This button will open the newest image in the preview window.

S

This button will open the selected image in the preview window.

L

This button displays a list of all thumbnail images.

D

This button opens the Image properties window.

%

This button will browse through all the thumbnail images.

Image

This is the thumbnail image. Any image notes will be displayed if the mouse arrow is resting above the image.

Caption

This area displays some of the image properties.

Status area

This is the entire work area. Images may be dragged to another tooth position.

Preview area

This window displays the thumbnail representation of the work area in the compare view. Images may be dropped here.

Unassigned tooth position area

Saved images that do not contain tooth position information will be placed here.

Color image status

Image position window

This window holds one or more thumbnail images with its information.

Toolbar

A

This button will first clear the preview window, and then open all images in the preview window.

N

This button will open the newest image in the preview window.

S

This button will open the selected image in the preview window.

L

This button displays a list of all thumbnail images.

D

This button opens the Image properties window.

%

This button will browse through all the thumbnail images.

Image

This is the thumbnail image. Any image notes will be displayed if the mouse arrow is resting above the image.

Caption

This area displays some of the image properties.

Status area

This is the entire work area. Images may be dragged to another tooth position.

Preview area

This window displays the thumbnail representation of the work area in the compare view. Images may be dropped here.

Unassigned image area

Saved images that do not contain tooth position information will be placed here.

Implant status

Thumbnail list

This lists all panoramic x-ray thumbnails.

Histogram equalization 

This button performs histogram equalization on the selected image.

Reset image 

This function will reset the selected image to the original state. It may possible be modified according to its second function.

Optimal contrast 

This button will set optimal values for contrast, brightness and gamma.

Median filter 

These buttons toggles the median filter on/off on the selected x-ray image.

Super filters 

These buttons toggles the super filter on/off on the selected x-ray image.

Contrast and brightness adjuster

These buttons allow the user to adjust contrast and brightness in small steps.

Work area

This displays the selected image.

Ortho status

Thumbnail list

This lists all panoramic x-ray thumbnails.

Histogram equalization 

This button performs histogram equalization on the selected image.

Reset image 

This function will reset the selected image to the original state. It may possible be modified according to its second function.

Optimal contrast 

This button will set optimal values for contrast, brightness and gamma.

Median filter 

These buttons toggles the median filter on/off on the selected x-ray image.

Super filters 

These buttons toggles the super filter on/off on the selected x-ray image.

Contrast and brightness adjuster

These buttons allow the user to adjust contrast and brightness in small steps.

Work area

This displays the selected image.

Document view

Scan button

This button will scan a document.

Ask date

This setting will cause the program to ask for a date before scanning. The scanned document will be saved using that date. The date must be entered using the current Windows date format.

Thumbnail list

This lists thumbnail images of all documents.

Work area

This displays the selected document image. The image may be scrolled up and down using the gray plus and minus keys.

File view

Notes

This window displays the attached note of the selected file.

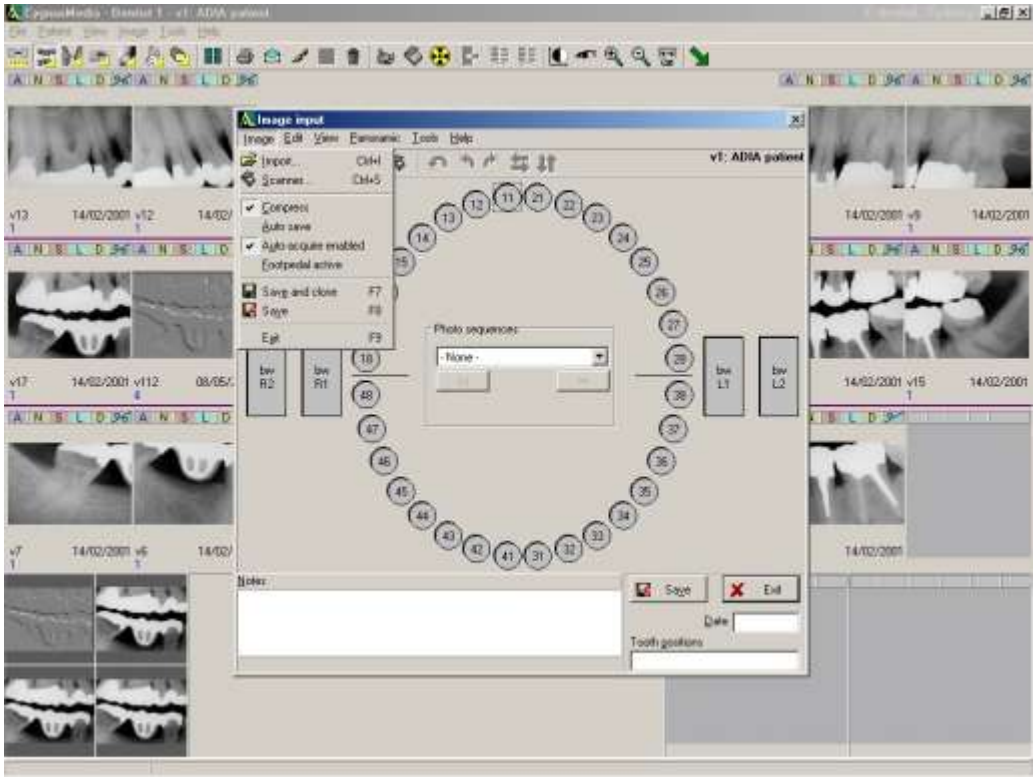
File list

This lists all files that have been imported to the current patient.

X-ray window

X-ray window menu

Image



Import

This function will open a window allowing the user to import an image file.

Scanner

This function initiates flatbed scanner image acquisition. If scanner profiles are used, it will scan directly; otherwise it will open the currently selected twain driver window.

Compress

This setting determines if compression will be used when saving a new image. The type of compression is determined by the pixel format of the image and by the compression settings in the configuration window. Compression is normally on.

Auto-save

This setting determines if new acquired images will be saved immediately. Rotating a new acquired image is not possible, but can be done later.

Auto-acquire enabled

This setting determines if the program initiates image acquisition when a tooth number is clicked.

Foot pedal active

This setting determines if the foot pedal is active in this window.

Save and close

This function will save the displayed image and also close the window.

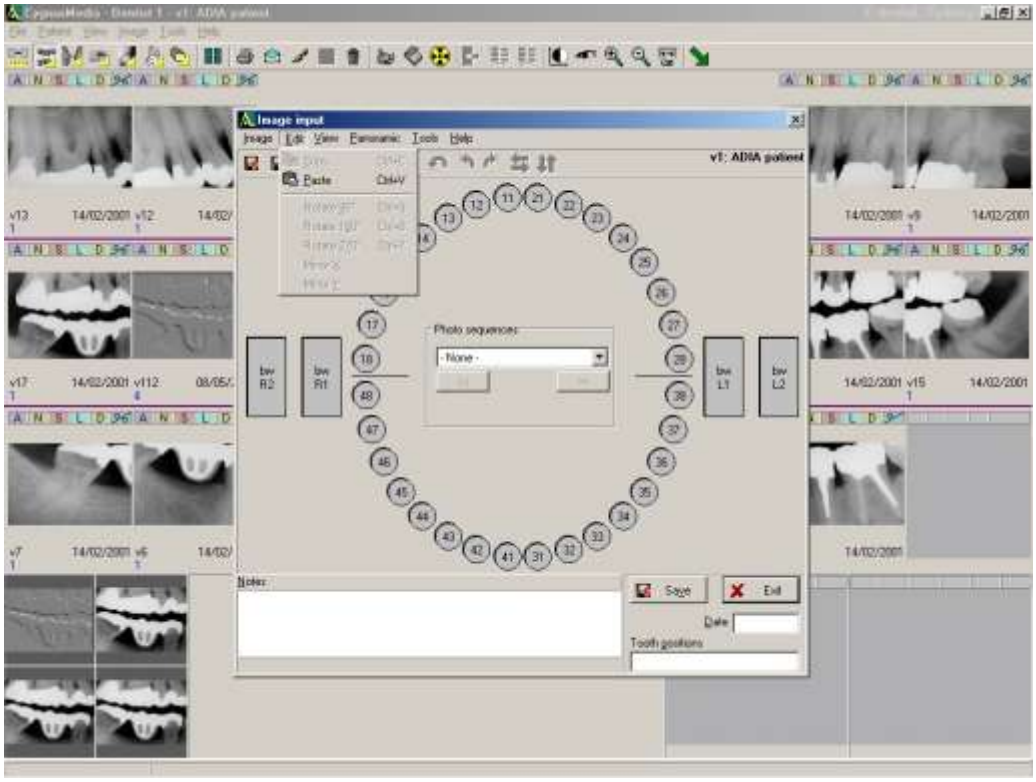
Save

This function will save the displayed image.

Exit

This function will close the window.

Edit



Copy

This function will place a copy of the displayed image onto the clipboard.

Paste

This function will acquire an image from the clipboard, if one is available.

Rotate 90°

This function will rotate the displayed image 90° counter clockwise.

Rotate 180°

This function will rotate the displayed image 180°.

Rotate 270°

This function will rotate the displayed image 270° (90° clockwise).

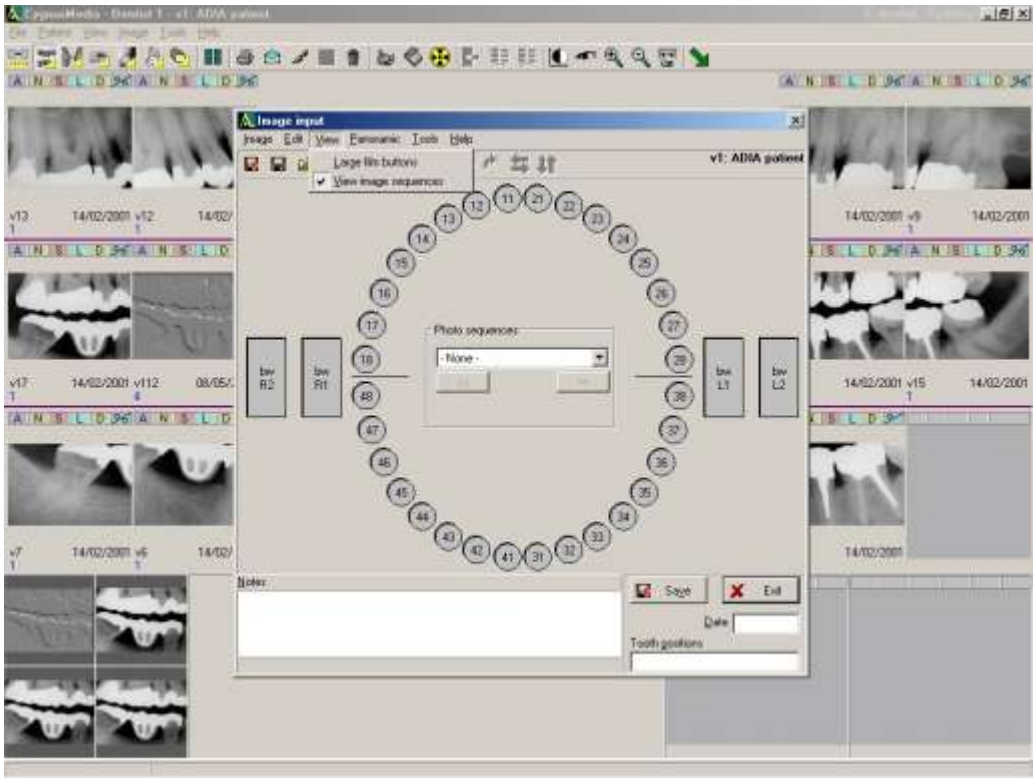
Mirror X

This function will mirror the displayed image.

Mirror Y

This function will flip the displayed image upside down.

View



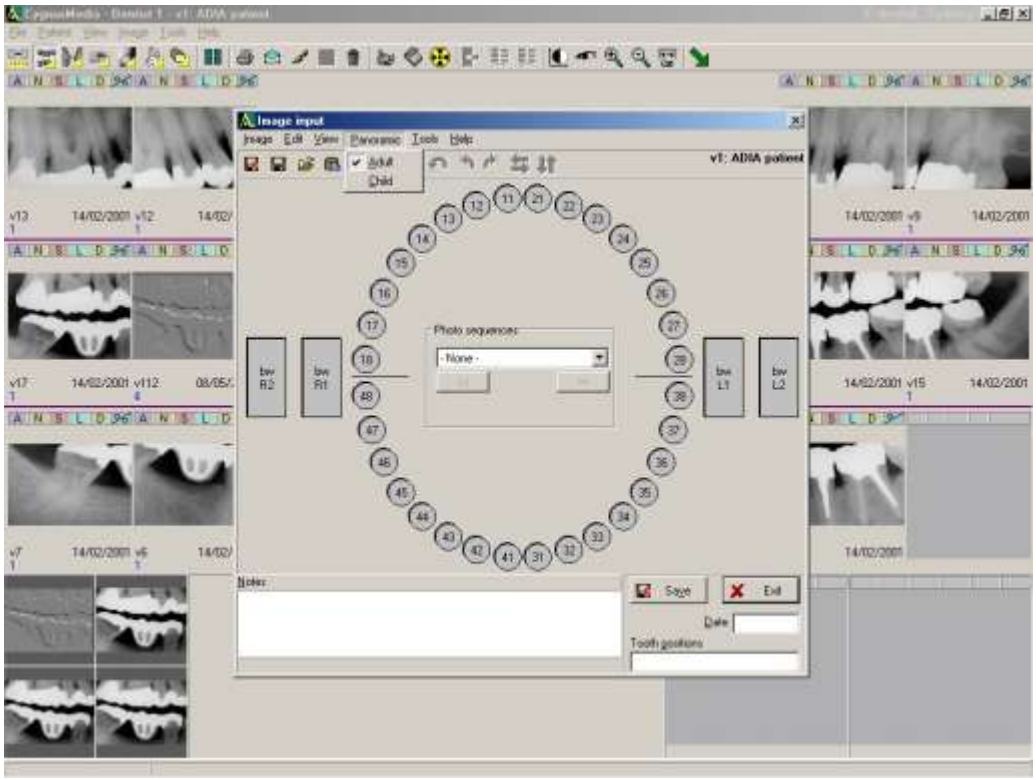
Large film buttons

This setting will show or hide the large film buttons.

View image sequences

This setting will show or hide the photo sequence tool.

Panoramic



Acquired panoramic images are normally originally enlarged by a certain factor. Adult panoramic x-rays are normally enlarged with the factor 1.3. Child panoramic x-rays are normally enlarged with the factor 1.5.

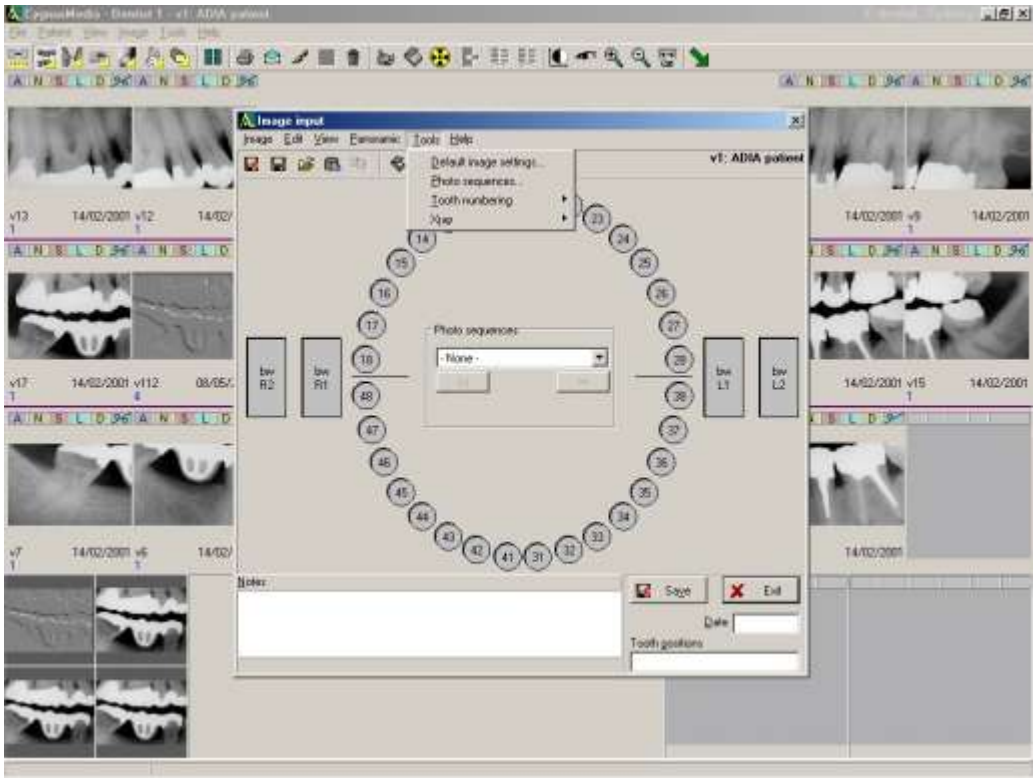
Adult

This setting will set panoramic x-rays to adult mode.

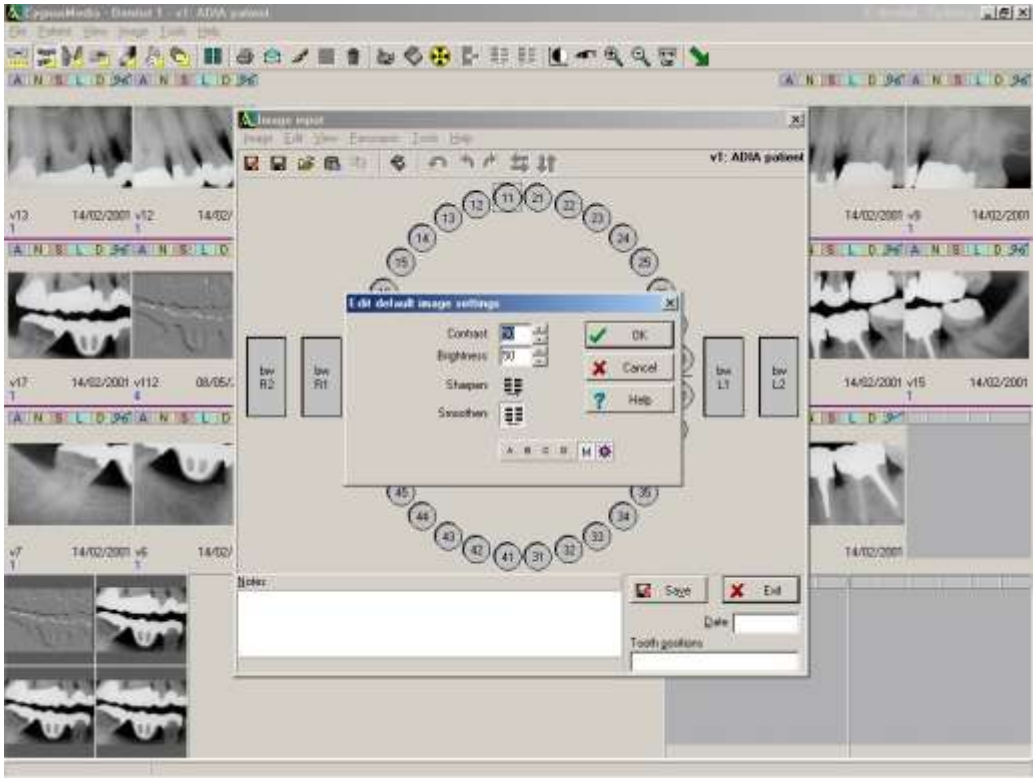
Child

This setting will set panoramic x-rays to child mode.

Tools



Default image settings



This function will open a window that allows the user to preset image settings for all saved images.

Contrast

This field determines the contrast applied by default.

Brightness

This field determines the brightness applied by default.

Sharpen

This field determines if sharpening is applied by default.

Smoothen

This field determines if smoothing is applied by default.

Super filters A B C D

This field determines if any super filter is applied by default.

Median filter M

This field determines if the median filter is applied by default.

Optimal contrast

This field determines if the optimal contrast function is applied by default.

Photo sequences

The photo sequences window allows the user to configure preset sequences used to acquire one or more images without computer intervention.

Sequences

This lists all defined photo sequences.

Add sequence

This button allows the user to insert a new photo sequence. The function asks for the name of the new photo sequence.

Delete sequence

This button allows the user to delete the selected photo sequence.

Sequence name

This field determines the name of the sequence.

Sound before

This field determines if a sound should be played when the sequence starts. The field must specify a wav sound file.

Sound after

This field determines if a sound should be played when the sequence ends. The field must specify a wav sound file.

Tooth positions

This lists all defined tooth positions for the selected sequence.

Add tooth position

This button allows the used to insert a new tooth position. The function asks for the specification of the new tooth position.

Delete tooth position

This button allows the user to delete the selected tooth position.

Tooth position

This field determines the tooth position. Tooth numbers must be separated with spaces, e.g. “23 24 25”.

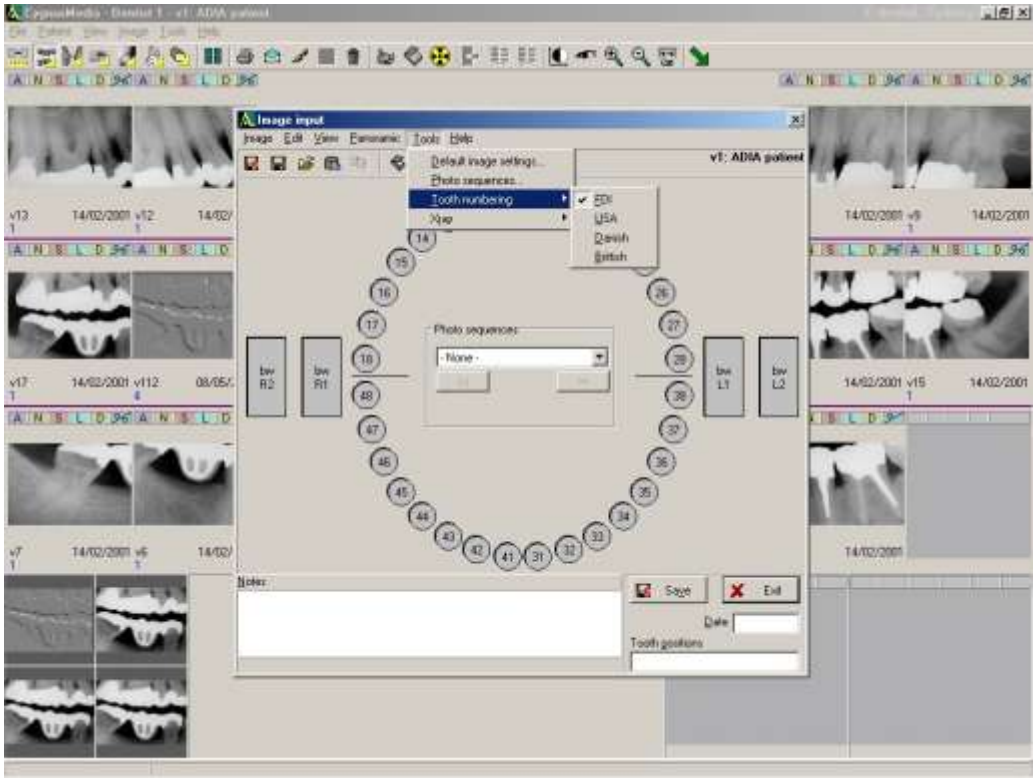
Sound

This field determines if a sound should be played when the tooth position starts. The field must specify a wav sound file.

Notes

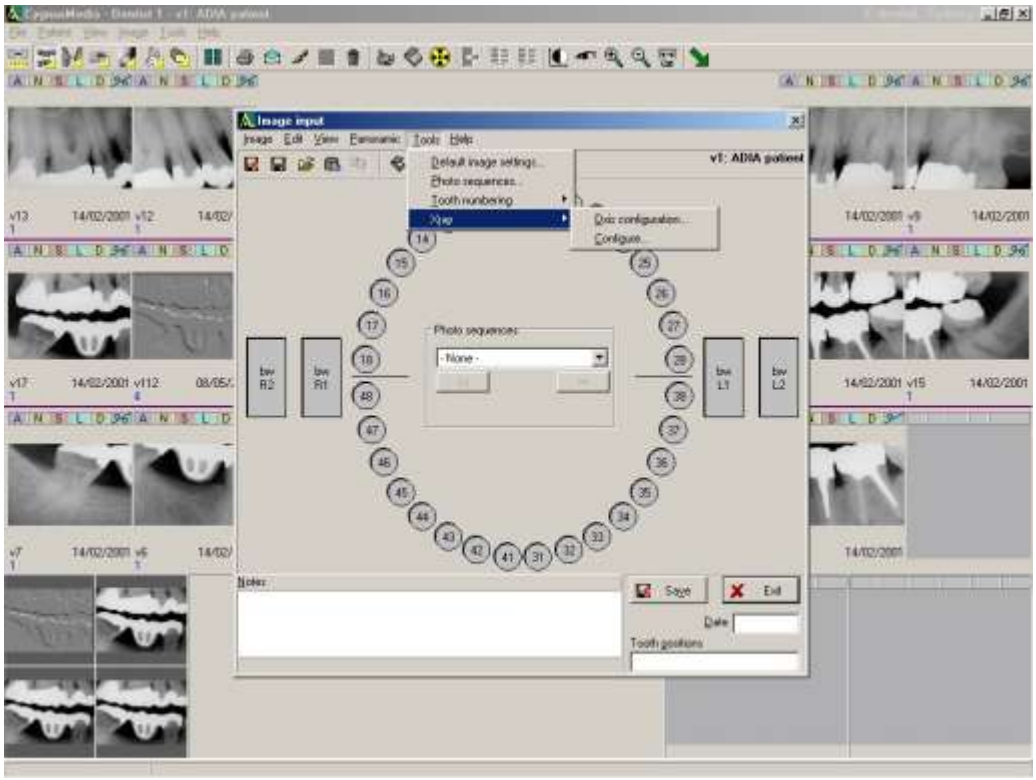
This field determines the note text that will be displayed when the tooth position starts.

Tooth numbering



This setting determines how teeth are numbered.

X-ray



Dxis configuration

This function is to configure the Dxis digital panoramic sensor driver.

Dxis is produced by Signet SA, France

Configure

This function is for configuring the digital x-ray driver.

Enable simulation

This setting determines if the driver should simulate the sensor.

Enable histogram stretching

This setting determines if the raw image from the sensor should be histogram-stretched before it is saved.

Enable noise filter

This setting determines if the raw image from the sensor should be noise-filtered before it is saved.

High resolution sensor

This setting determines if the sensor should be used in the highest resolution mode. The low-resolution mode will resample the raw high-resolution image to half width and height.

Advanced

Acquisition mode

These settings determine how the driver sends the raw image to the program.

Windows message

Event signal

Integration time

???

Pixel threshold

This field determines the threshold when x-ray acquisition should start. If the value is too low, the sensor might acquire an image on the x-ray tube

pre-heat stage, resulting in a white image. The range of the value is from 0 to 4095.

Maximum power time

This field determines the time that the sensor can be in the active state before the program will reset the sensor to the idle state.

Hold-off time

This field determines the minimum wait time required between successive exposures.

Help

Contents

This function opens the help window.

Toolbar

Save

This button saves the current image to the selected patient.

Save and close

This button saves the current image to the selected patient and then closes the window.

Import

This button opens a window, allowing the user to import image files.

Paste

This button will import an image from the clipboard.

Copy

This button will copy the current image to the clipboard.

Scanner

This button begins scanning an image.

X-ray

This button begins x-ray image acquisition.

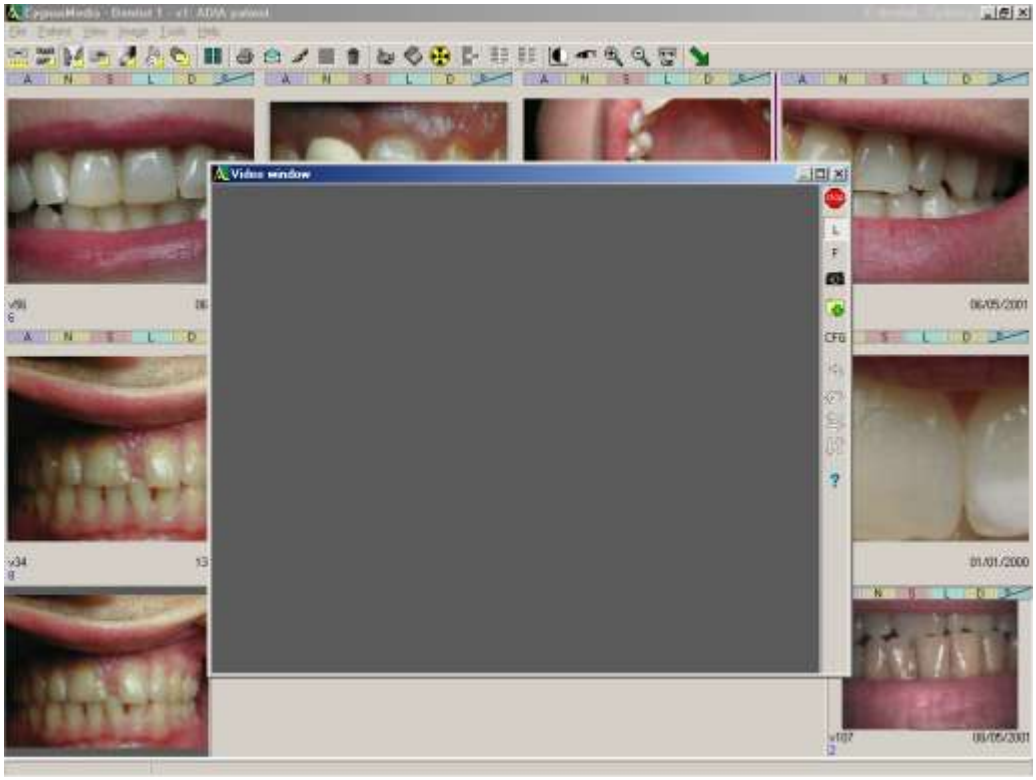
Rotate 

These buttons rotates the current image. Typically, an image is rotated 180 degrees  if it is upside down.

Mirror 

These buttons mirrors the current image.

Video window



Video window menu

Stop

This button closes the video window.

Live

This button starts live video display.

Freeze

This button freezes the live video display, or, if the video is already frozen, it will acquire one more frame.

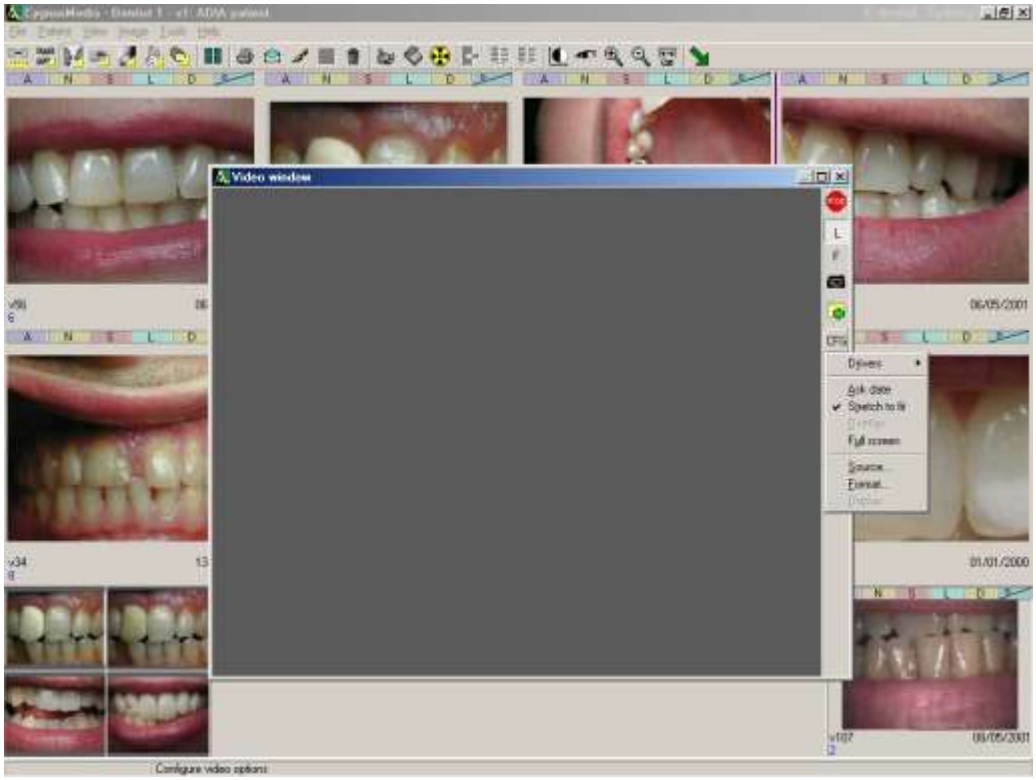
Capture

This button will capture the displayed video image and switch to manipulation mode, in which the displayed image may be reoriented.

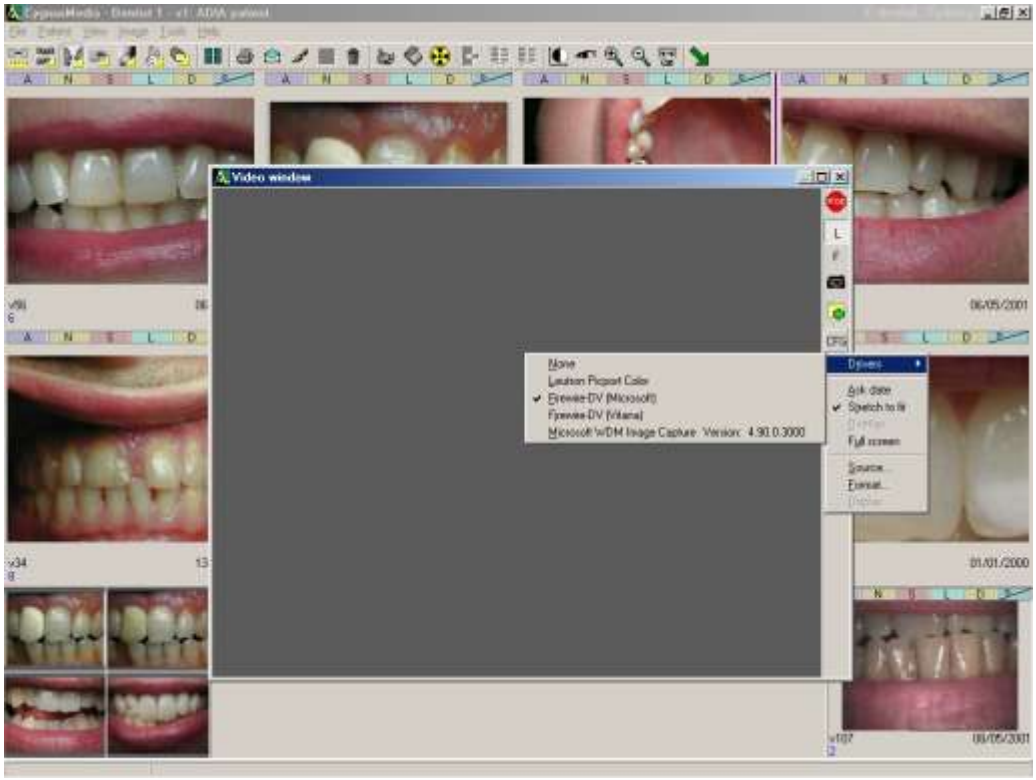
Save

This button will save the displayed image.

Configure



Drivers



None

This selection disables Video capture.

Leutron Picport Color

This selection is for the special high quality video capture card "Leutron Picport Color". This card can do mirroring with live video.

Firewire-DV (Microsoft)

This selection is for DV devices compatible with the built-in Microsoft DV driver.

Firewire-DV (Vitana)

This selection is for DV devices using the Vitana DV device.

(Other user-installed drivers)

These selections are for standard "Video For Windows" compatible drivers.

Ask date

This setting will cause the program to prompt the user for a date when the Save button is clicked.

Stretch to fit

This setting will cause the program to fit the video inside the video window. For Video For Windows drivers, the video will not be enlarged when fitting. For Firewire-DV drivers, the video will be enlarged if needed.

Overlay

This setting will instruct the Video For Windows driver to utilize hardware overlay mode using bus-mastering techniques when displaying live video. This will increase the video speed.

Full screen

For Firewire-DV drivers, this function will cause the program to display the video in full-screen mode. Clicking the mouse button will exit to normal mode.

Source

This function will open a window that allows you to select a video-input connector, in addition to other driver-specific options.

Format

This function will open a window that allows you to select a video format, in addition to other driver-specific options. The user can select the video resolution. The pixel format must be set to RGB-24.

Display

This function will open a window that allows you to select other driver-specific options.

Rotate 90° left

In manipulation mode, this function will rotate the displayed image 90° counter clockwise.

Rotate 180°

In manipulation mode, this function will rotate the displayed image 180° counter clockwise.

Mirror X

In manipulation mode, this function will mirror the displayed image. For the Leutron Picport Color card, this function will toggle between mirrored live video and normal live video mode.

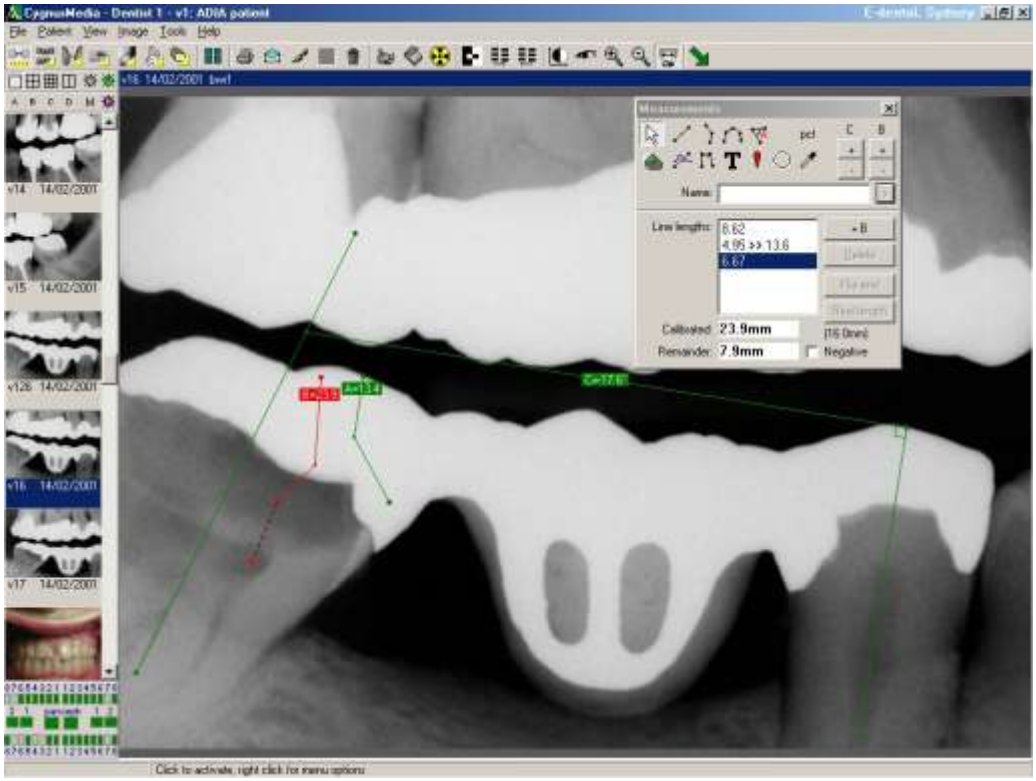
Mirror Y

In manipulation mode, this function will flip the displayed image upside down. For the Leutron Picport Color card, this function will toggle between upside down live video and normal live video mode.

Help

This button will open the help window.

Measurement window



Move button

This button activates the move mode. In this mode, clicking on an existing measurement item allows the user to see the properties of the item, and to reposition and/or edit it.

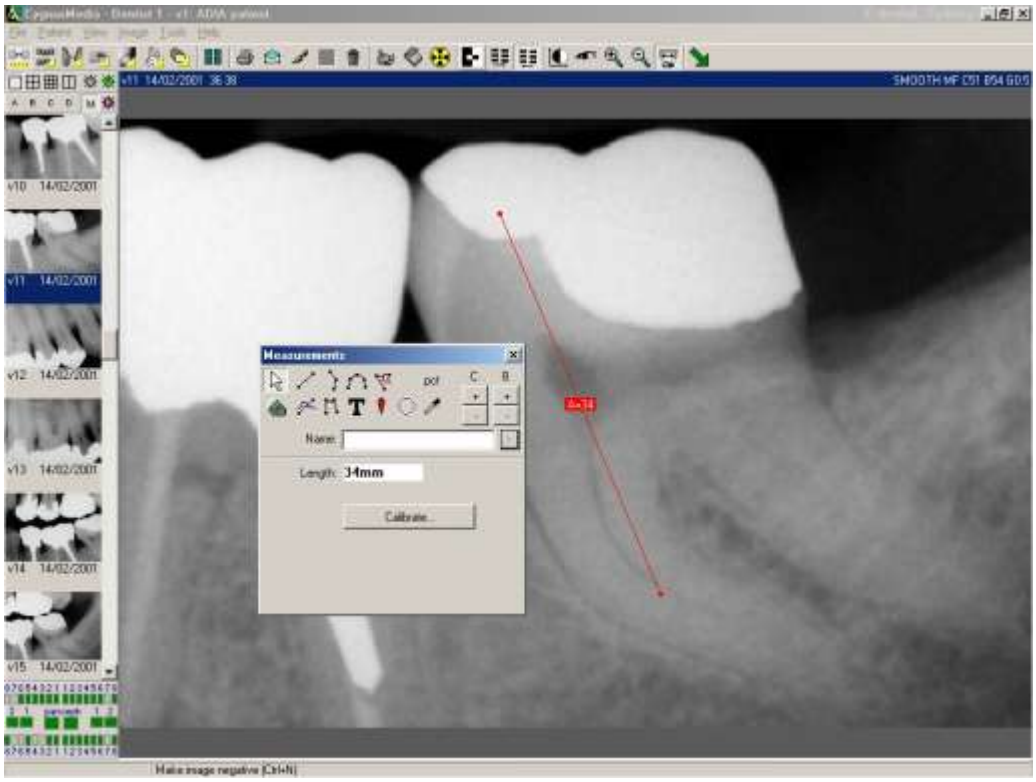
Eraser button

This button activates erase mode. In this mode, clicking on a measurement item will delete it.

Distance measurement

This button activates the distance measurement mode. In this mode, clicking and dragging on the image will insert I new distance measurement line. Optionally, the distance measurement may be used to recalibrate the image.

Length

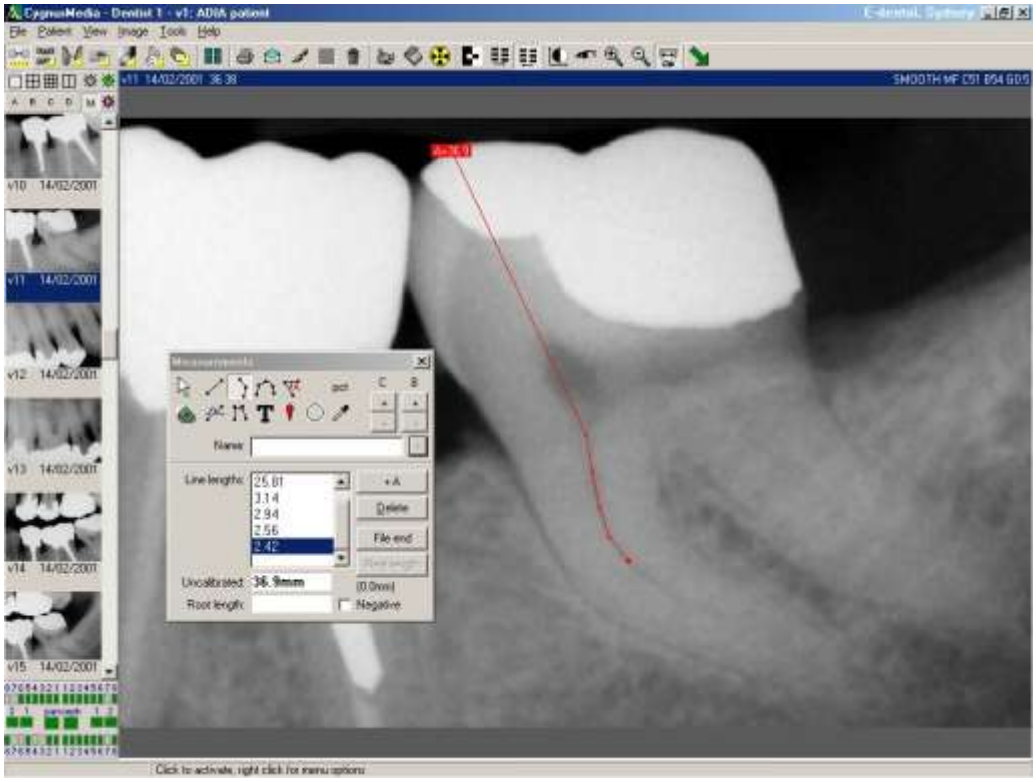


This field displays the computed length of the line. The length is computed using the pixel distance scaled with the calibration parameters of the image.

Calibrate

This button opens a window asking for a calibrated length. When the length is entered and Enter is pressed, the program will set the calibration parameters of the image such that the distance measurement will display the same length as entered, effectively recalibrating the image.

Line sequence



This button activates the line sequence mode. It is for measuring the lengths of root channels. The mode has two functions:

- Measuring a root channel without a file (uncalibrated).
  The calibration will use the calibration parameters of the image.
- Measuring a root channel with a file (calibrated).
  The calibration will be computed locally using the file visible in the image.

Line length

This lists all points inserted. A symbol >> will be displayed on the point indicating the end of the file.

Calibrated/Uncalibrated

This field displays the calibrated or uncalibrated total root channel length.

Remainder

For calibrated measurements, this field displays the calibrated distance between the end of the file and the end of the root channel (apex).

Edit

This button allows the user to insert more points to an exiting line sequence item.

Delete

This button will delete the last point of the line sequence.

File end

This button is used to indicate that the last inserted point is at the end of the file. Clicking the right mouse button on the image will have the same effect.

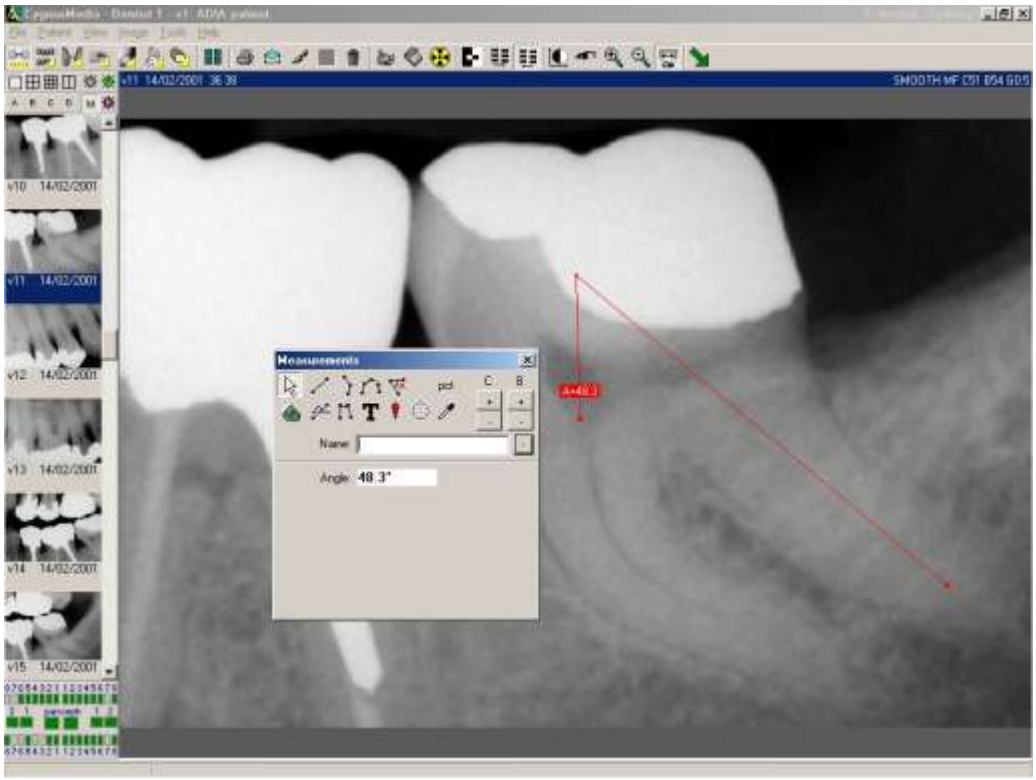
Real length

This button is used to enter the real length of the file. It also concludes the calibrated measurement mode.

Negative

This setting is used to indicate that the file end is beyond apex.

Angle measurement

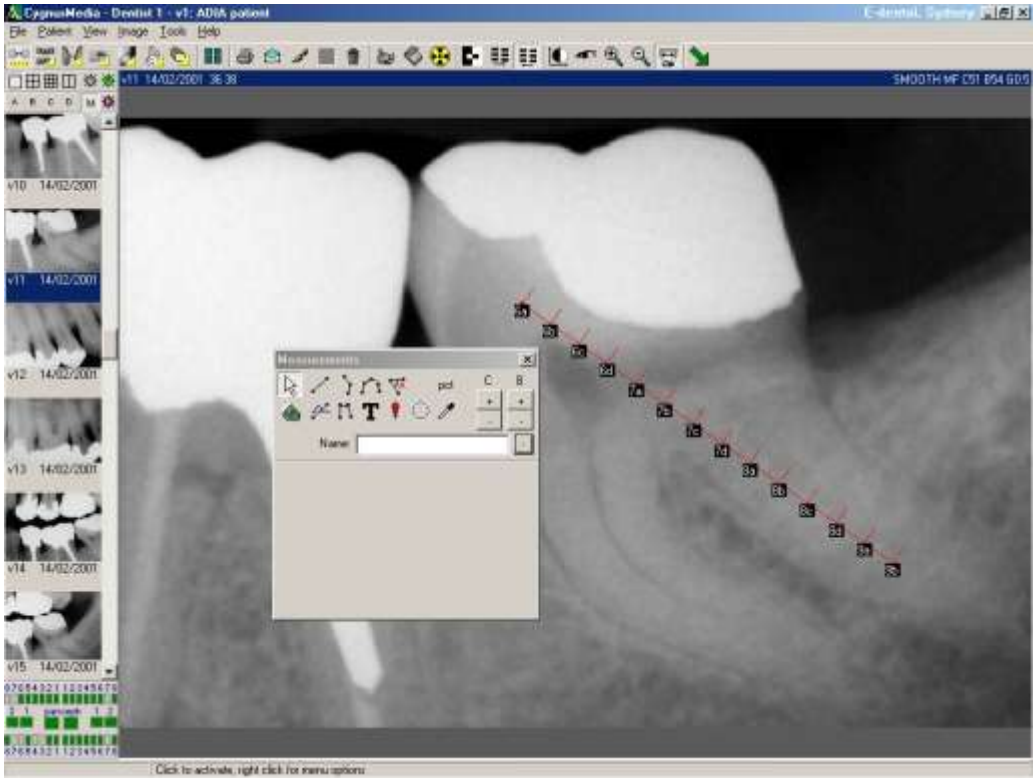


This button activates angle mode. In this mode, clicking and dragging on the image inserts a new angle item.

Angle

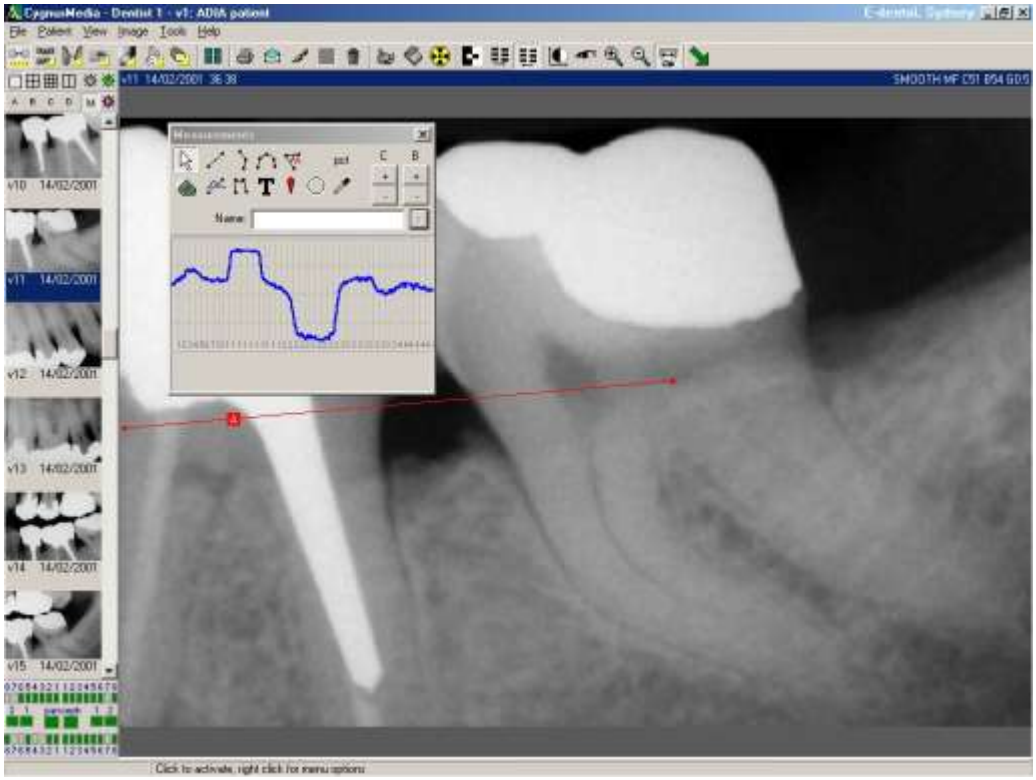
This field displays the angle between the two lines.

Digora PCT Tomo ruler



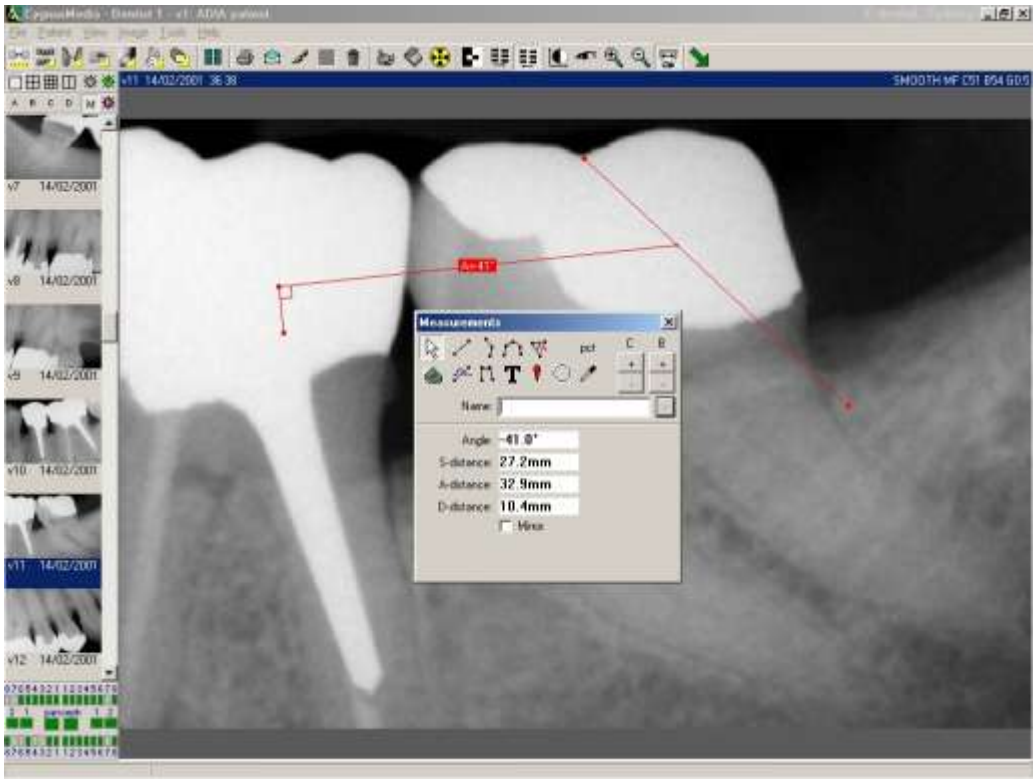
This button activates the Digora PCT Tomo ruler mode. In this mode, clicking and dragging on the image will display a ruler that may be used to compute the position needed to program the tomo function on a Digora PCT.

Line density button



This button will activate line density mode. In this mode, a line drawn in the image will display the x-ray density graph.

Implant angle button



This function is used to measure angles and distances between two teeth where a bridge is planned.

Angle

This is the angle between the two teeth.

S-distance

This is the distance between the top points of the two vertical lines.

A-distance

This is the length of the horizontal line.

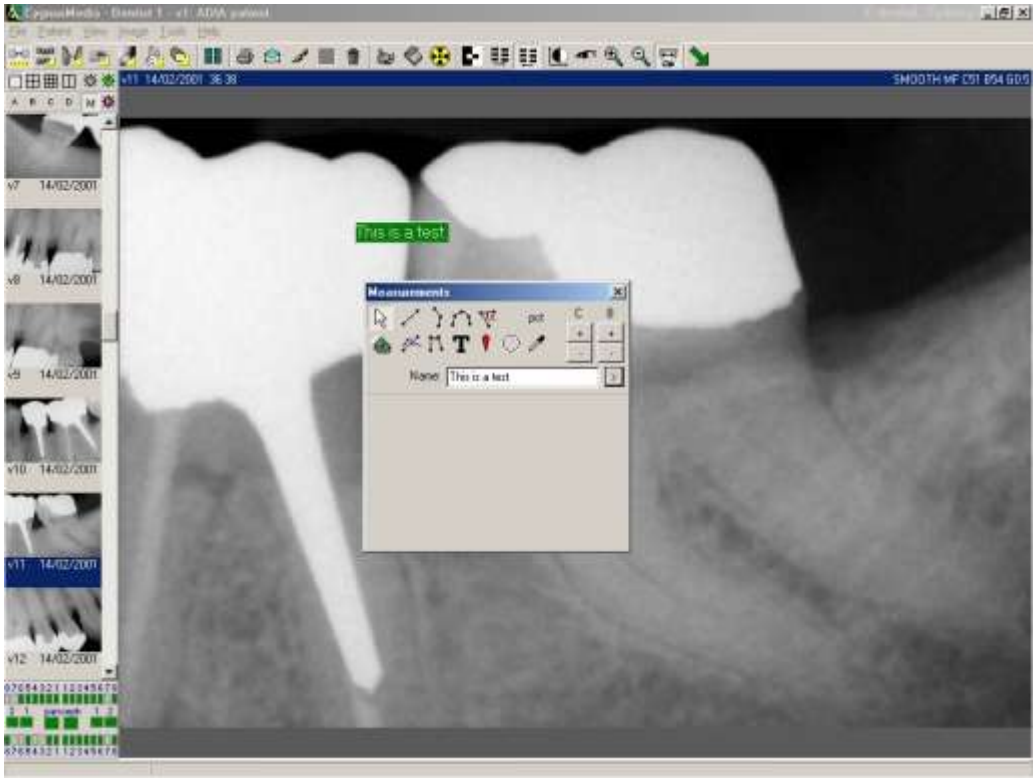
D-distance

This is the distance between the horizontal line and the top of the vertical line (the line that is not 90°).

Mirror

This setting determines if the 90° line is to the left or the right.

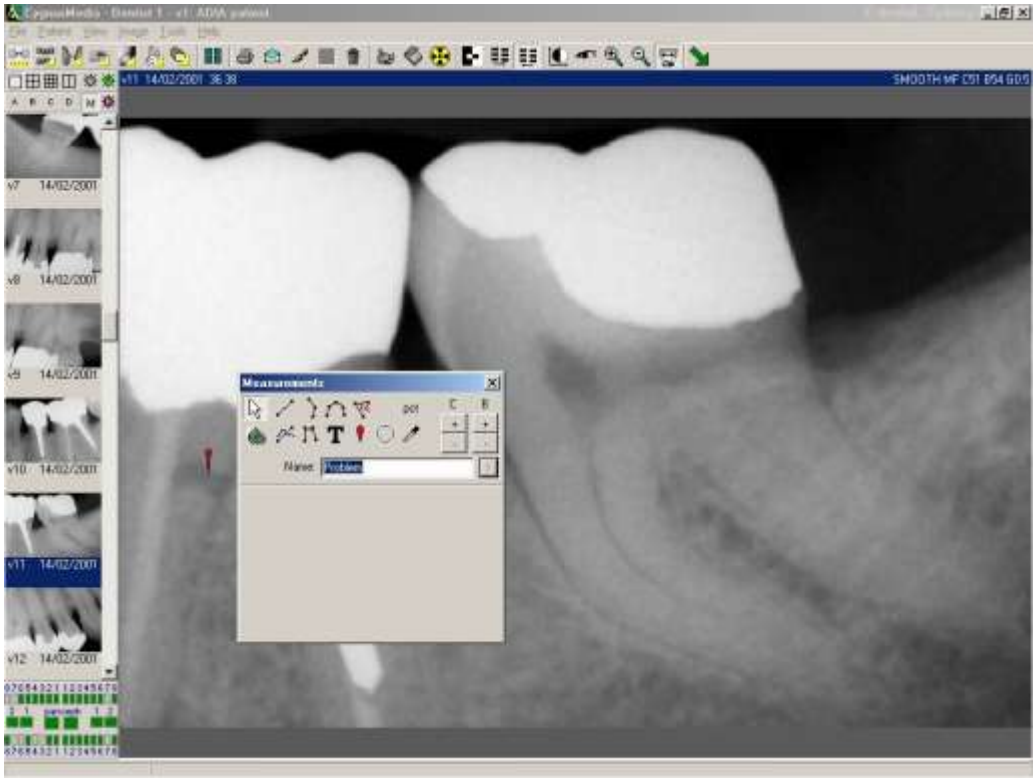
Text & multi text button



This button has two modes:

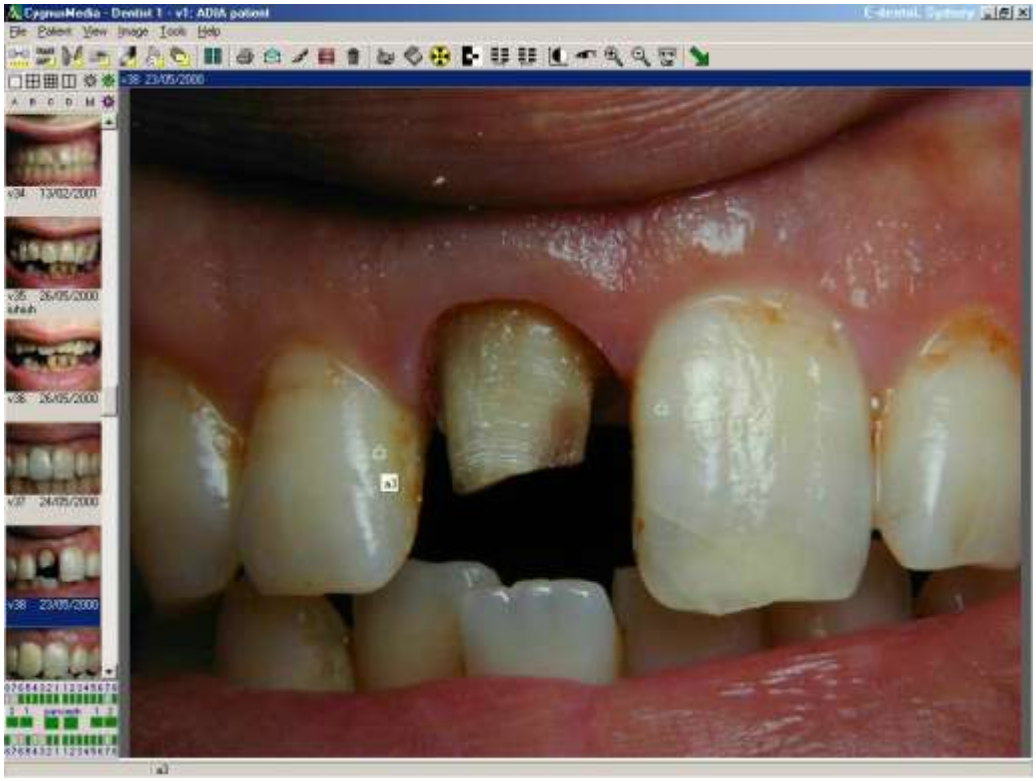
- Single click.
  This function activates text mode. In this mode, clicking in the image will insert a new text item.
- Double click.
  This function opens a window that allows the user to quickly insert several text items to be positioned later.

Indicator dot button



This button activates the indicator dot mode. In this mode, clicking on the image will insert an indicator dot item.

Color spot button



This button activates color spot mode. In this mode, clicking on the image will insert a color spot item.

Point measurement button

This mode activates point measurement mode. In this mode, the position and pixel value where the mouse cursor is will be displayed.

Contrast and brightness adjuster

These buttons allow the user to adjust contrast and brightness in small steps.

Name

This field determines the optional name that may be saved with a measurement item.

Save button

This field will cause any text modifications to be saved.

Printer profiles

Scanner profiles