Perfecting Your Practice...

Visix Imaging Manual

Dental Imaging Software

To Open Visix

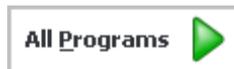On your desktop, double click on the Visix icon.

Or

On your desktop, click on the Start button

Go to All Programs

Select Visix Imaging

Then select Visix again.

Select a Provider

The first Visix window that opens is the Select Provider Window.

A provider is a doctor. If the name that displays is the correct provider click on the Login button. Otherwise, click on the User Name down arrow to display a drop down box of other providers that may be selected from. If the necessary provider does not appear in the drop down box, click on the cancel button to exit Visix then open Visix Administration and enter a new provider. For instructions on how to use Visix Administration, please refer to the Visix Administration manual.

Patients Window
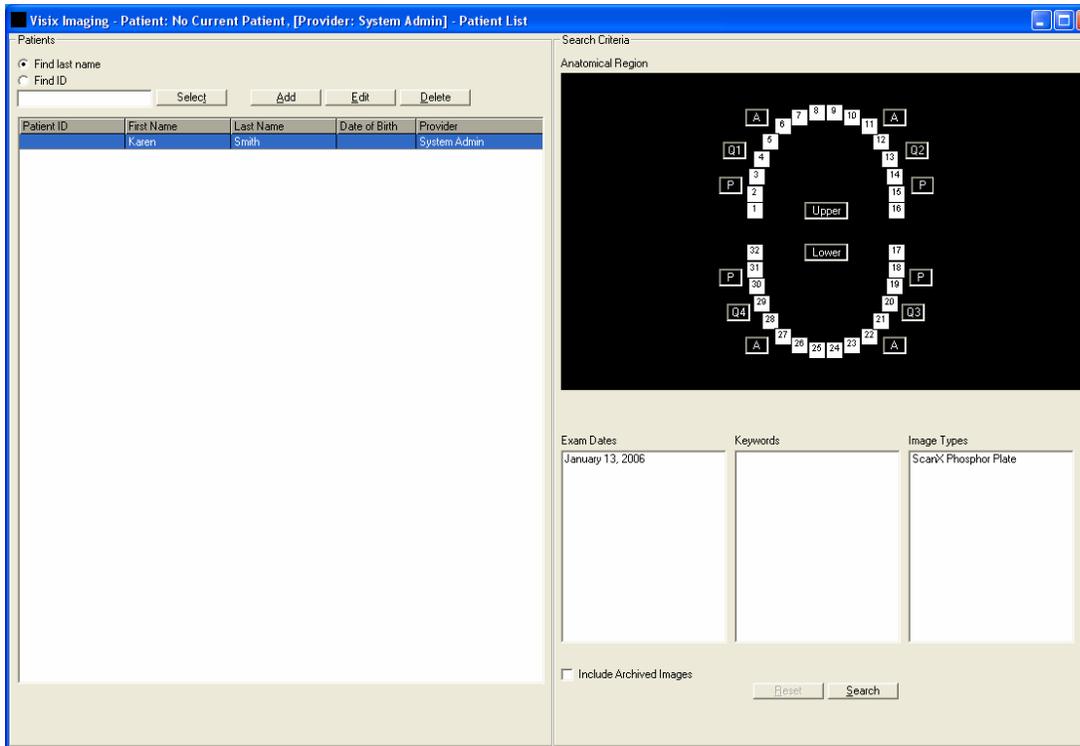
The Patient window is broken up into two sections: a Patients area where a patient is selected, added, deleted, or has his information edited, and a Search Criteria area which is used to locate specific images.

The Patient window initially opens without a patient selected. Notice on the top bar of the window where the provider, Visix icon, and Visix name display, the message "No Current Patient" also displays.
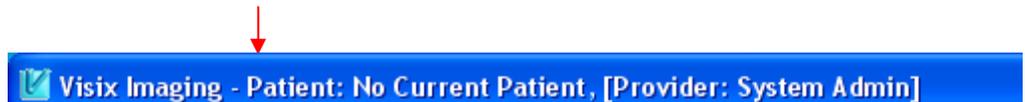
After a patient is selected the patient's name will display here.

Always check this area of the screen to make sure that the correct patient is selected before starting an activity in Visix.
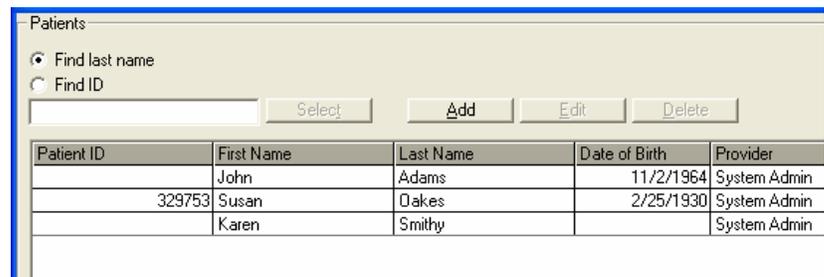
Displaying Existing Patients
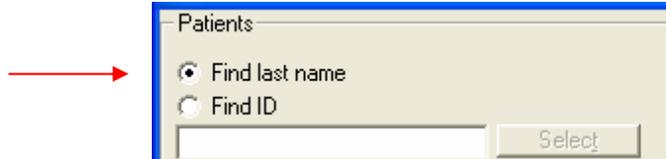
- Patients can be found by their last name, or
- Patients can be found by their patient ID.

Directly beneath the patient display criteria, the patients are listed in alphabetical order by last name.

Finding a Patient

To find a specific patient, the last name of the patient can be entered into the Find Patient box, Visix will advance through the list of patients, moving to the first patient whose last name displays all of the letters in the Find Patient box.


In the example above, the letter "o" was entered into the Find Patient box and Visix moved to the first patient whose last name begins with an "o".

Selecting a Patient

To select a patient, double click anywhere on the patient's information in the patient list (Patient Name, ID, Date of Birth, or Provider). The patient's name will display in the top bar of this window letting you know that the patient has been selected.
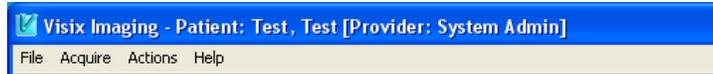
Once the patient has been selected, the main Visix window appears with the patient's images displayed on the right hand side of the screen in the "Patient's Images" window.

Add a Patient

To add a new patient, click on the Add button at the top of the Patients window.

The Add New Patient window will display.

First Name

Enter the first name of the patient. This is required to save the record.

Last Name

Enter the last name of the patient. This is required to save the record.

Provider

Select the correct provider from the drop down box. This is required to save the record.

Gender

Select Male or Female to specify the gender of the patient.

Date of Birth

Enter the date the patient was born. (ex. 11/23/1985)

Patient ID

Enter the ID this patient will use in Visix.

S.S.N.

Enter the patient's Social Security Number. All X's can be substituted.

Insured's ID:

If applicable, enter the ID for the Insured party for the patient.

Street Address

Enter the street address of the patient.

City

Enter the city the patient lives in.

State

Enter the state the patient lives in.

Zip Code

Enter the zip code the patient lives in.

Home Phone

Enter the home phone number of the patient. If you would like the phone number to display with separators for ease of viewing, such as dashes, enter them.

Work Phone

Enter the phone number where the patient works. If you would like the phone number to display with separators for ease of viewing, such as dashes, enter them.

Email

Enter the e-mail address the patient uses.

OK

Click on the OK button OK at the bottom of the Add New Patient window to save the patient record. The patient record can be saved at any point after the patient's name and providers' name have been entered. Once saved, the patient record will appear in its alphabetical position by last name.

Cancel

Click on the Cancel button Cancel at the bottom of the Add New Patient window to close the window without any further saving.

Edit a Patient

To change information in a patient record, select the patient by left clicking on his line in the Patient List, then click on the Edit button at the top of the Patients section of the Patients window.

The Edit Patient Info window will display. The Edit Patient Info window contains the same information fields as the Add New Patient window. For an explanation of each entry please refer to the Add A Patient section of this manual.

Delete A Patient

To delete a patient, select the patient by clicking on his line in the Patient List, then click on the Delete button at the top of the Patients section of the Patients window.

A window that asks if you are sure that you want to delete the patient and all of the patient's images will appear. Check the patient name at the top of the Visix window to make sure this is the correct patient before proceeding.
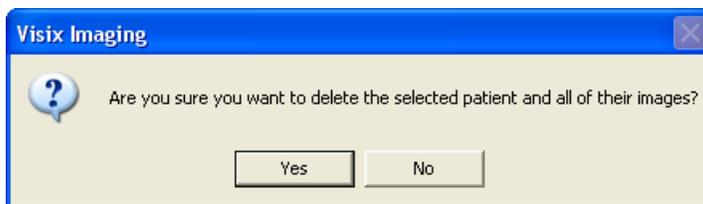
Click on yes if you are sure that you want to delete the currently selected patient with all of his or her images. Click on No if you are not sure.

Patients Window

Patients Window - Search Criteria Area

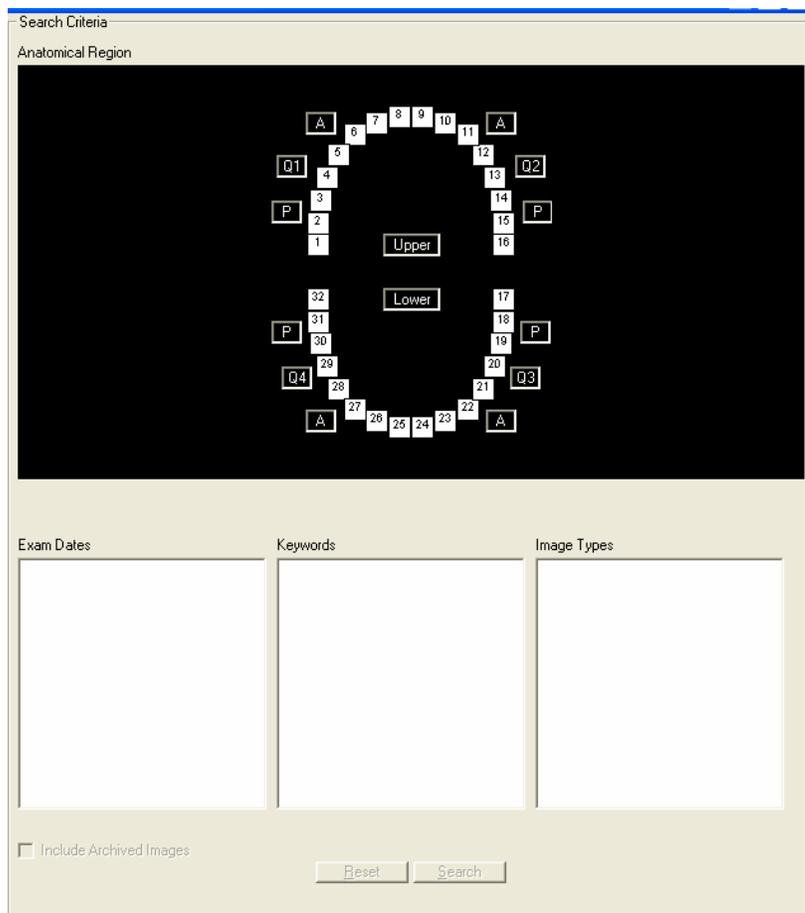The Search Criteria section of the Patient window is used to find a specific image, or group of images, from among a possibly large number of images.

The search decision involves the information that is displayed in the Anatomical Region, Exam Dates, Image Types, and Keywords list boxes in the Search Criteria section of the Patients window. Click on any information in each list box that can be used to further narrow the image search.

The anatomical region graphic allows you to search for images with the selected teeth represented in the image. Clicking the "A" (anterior) or "P" (posterior) button will highlight the corresponding teeth in the specific quadrant you have chosen. Clicking the "Q1", "Q2", "Q3" and "Q4" buttons

will highlight all teeth in the corresponding quadrant. Clicking the "Upper" and "Lower" buttons will highlight all teeth in either the Upper or Lower Arch. You can also click on "teeth" buttons individually to select.

The anatomical region selections can be used in correspondence with the Exam Date, Keywords, and Image Types search criteria as well.

Specifying the anatomical region for an image can be performed in the right click menu over the image (see How to use the Right Click Menu section of this manual) or can be automatically assigned by specifying an anatomical region to each mount hole in the Mounts (see Mounts section of this manual).

The information in the Keywords list box in the Search Criteria area is entered on an image by right clicking on the image and using the Right Click Menu that appears. For instructions on how to use the Right Click Image Menu, see Right Click On An Image section of this manual.

The information in the Exam Dates and Image Types list boxes in the Search Criteria area is automatically entered on an image when the image is acquired.

Images Window
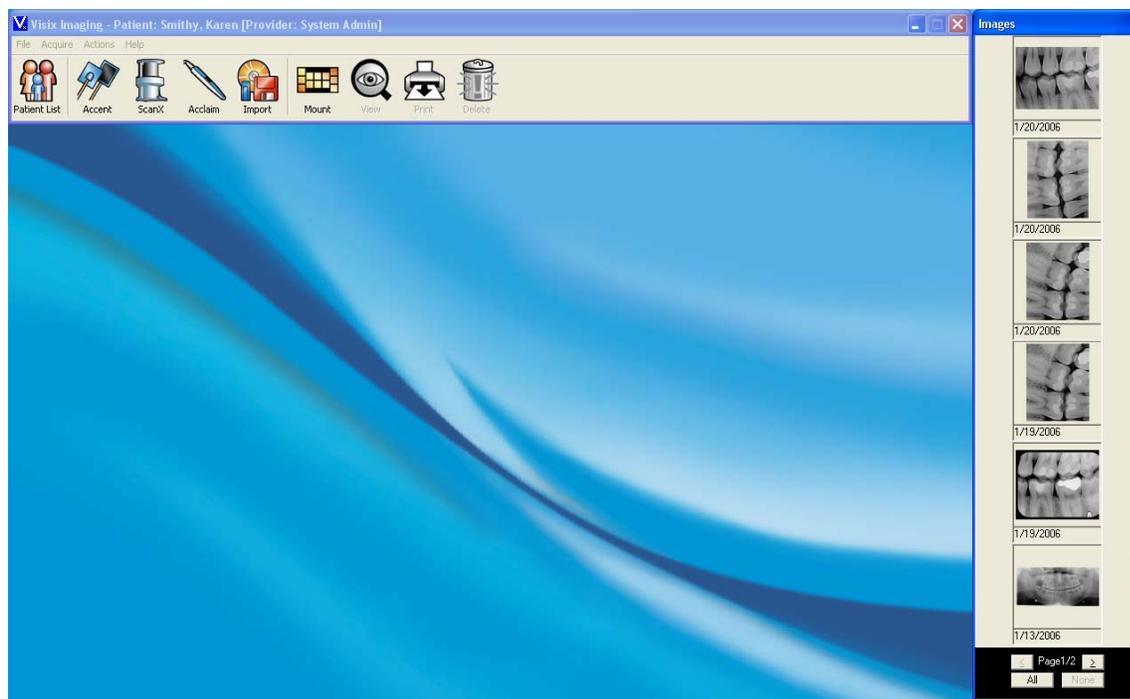
Images Window

To display the Images window, click on the Patients button in the upper-left corner of the Visix window then double-click the patient's name for whose images you want to view. The Patient's window will close and you will see the images line up on the right-hand side of the Visix screen. If the patient has no images, this window will be blank.

The images in the Image window will display based on their age. The newest images display first. Images can be deleted, exported, opened into the Image Viewer for viewing and manipulation, sent to the Mount window for viewing and mounting, or printed.
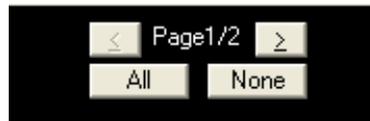
Select an Image

To manipulate an image in any fashion the image must be selected first.

To select an image, left click on it. To select all of the images, click on the All button at the bottom of the Images window.

Deselect an Image

To deselect an image, click on it again. To deselect all of the selected images click on the Select None button at the bottom of the Images window.

Delete an Image

To delete an image, first select the image or images to be deleted, and then click on the Delete button in the top toolbar of Visix Imaging.
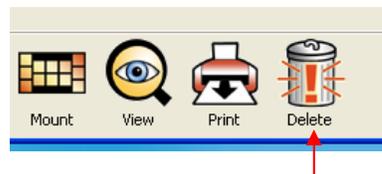
View an Image

To open an image in the Image Viewer or Viewer window, first select the image or images to be viewed, and then click on the View button in the top toolbar.   Another way of opening images in the Image Viewer or Viewer window is to first select the image or images to be viewed, then right click on one of the images and select View from the right click menu. A third way of opening a single image in the Image Viewer or Viewer window is to double left click on it (left click two times). For instructions on how to use the Image Viewer window, please refer to the Image Viewer Window section of this manual.
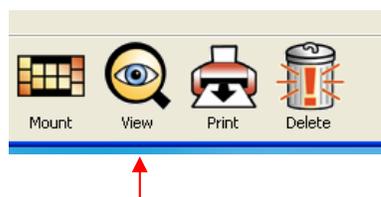
Mount an image or Print an Image

To mount an image or to print an image in a report, click on the image or images that need to be included then click on either the Mount button or the Print button in the top toolbar.
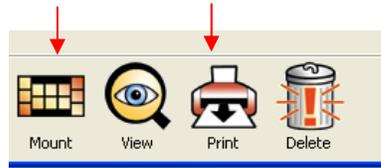
Right Click on an Image

When you right click on an image the Right Click Menu will appear:

Mount   The selected image(s) will be opened in the Mounts
                   window. See the Mounts section of this manual for further
                   instruction.

View   The selected image will display in the Visix Image Viewer
                   or Viewer window. For instructions on how to use the
                   Image Viewer, please refer to the Image Viewer Window
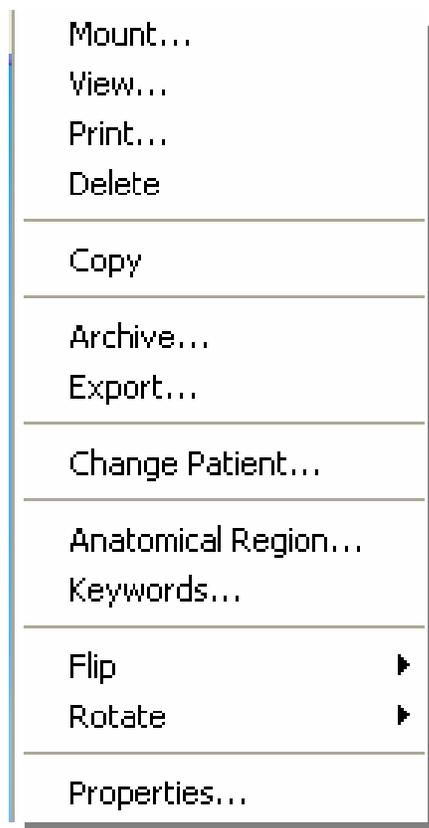   section of this manual. For instructions on how to use the
                   Viewer, please refer to the Viewer Window section of this
                   manual. The choice of viewer is made in the Visix
                   Administration program.

Print   The print dialog box will open and the selected image(s)
                   will be printed per your preferences to a standard image
                   report.

Delete   When Delete is selected the following window will display:
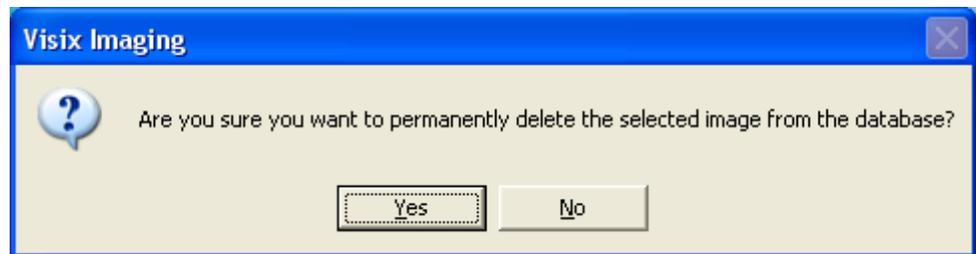
                   Click on Yes to remove the image from Visix. Click on No
                   to cancel the delete.

Copy   The selected image will be copied to the clipboard. The
                   image can then be pasted into another program that uses
                   the clipboard such as Microsoft Word.

Archive
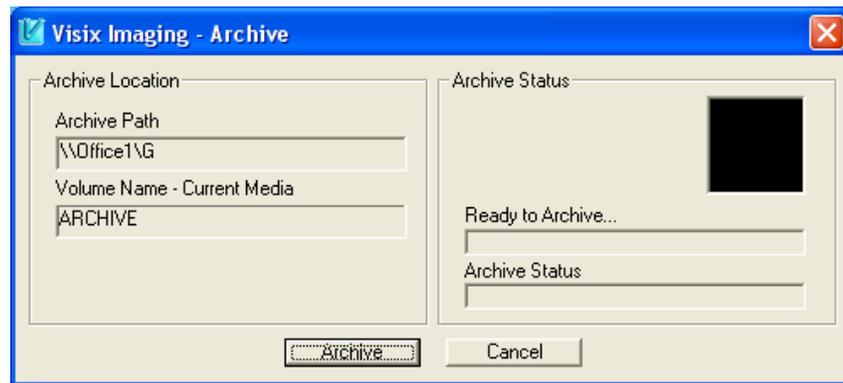
When an image is archived it is removed from Visix and placed in an archive location. The image is still available for viewing. To view the image, use the Search Criteria section of the Patients window and click on Include Archived Images to put a check mark in the box. Make sure the archive location is available before the Search button at the bottom of the Patients window is clicked.

Click on the Archive button [Archive] to remove the image from Visix and copy it to the archived location. The archive location is specified in the Visix Administration program. See the Visix Administration manual for instructions.

Export

Exporting is the process by which an image is copied from within Visix to a file outside of Visix. When Export is selected the following window will display:

Export to Hard disk/Memory stick:
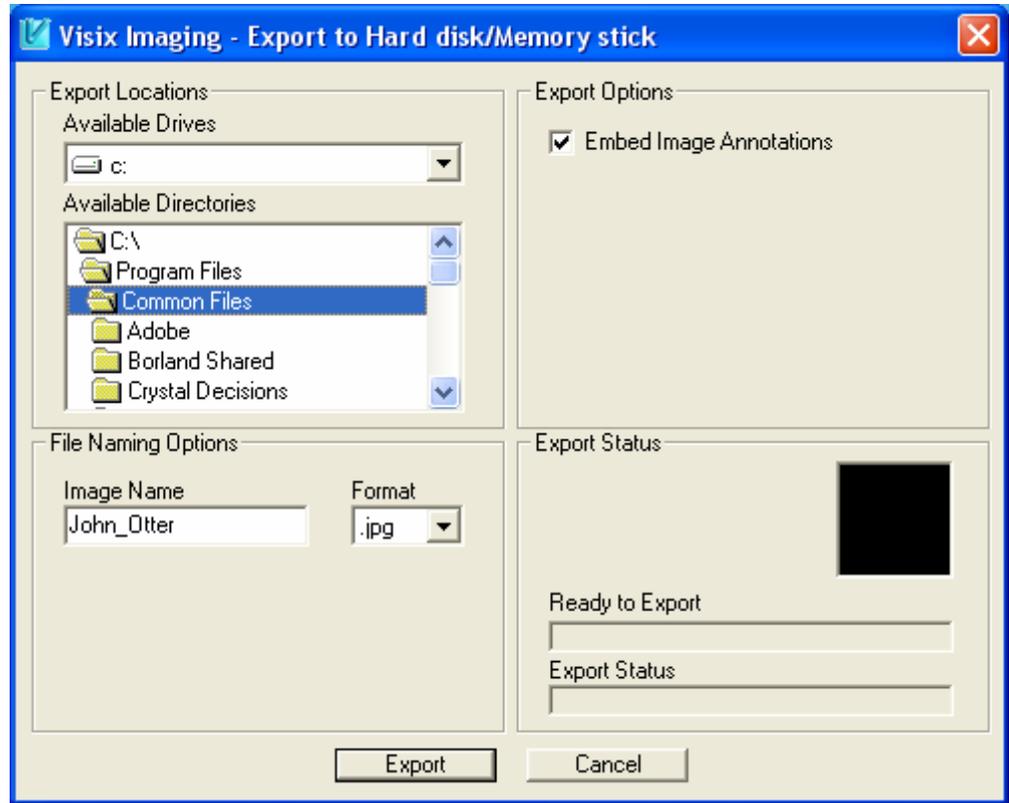
Export Location - Available Drives

To export the image to a hard drive or memory stick that is accessible by this computer, click on the Available Drives down arrow then select the drive from those displayed.

Export Location – Available Directories

The directories (also known as folders) within the selected drive will display. Double click on a folder to display any folders that might be within it.
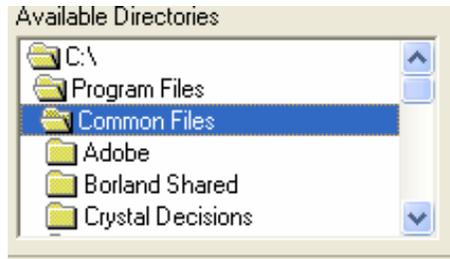
Select the directory (folder) to copy the export file to.

File Naming Options

The default Image Name is the [Patients' Last name]_[Patients' First name].

If multiple images are exported at the same time, a number that increases by 1 for each exported image will follow the image name. For example:
    John_Smith1.jpg
    John_Smith2.jpg
    John_Smith3.jpg

Export

Click on the Export button to export the file.

Export Options

Click on Embed Image Annotations to place a check in the check box if the annotations entered should be included with the image.

Change Patient (Move An Image From One Patient To Another)

The ability to move an image to another patient is available only from the images Right Click Menu.

To move an image from one patient to another, perform the following steps:

- Open the patient the image was incorrectly saved to
- Right click on the image to open the Right Click Menu

- Select Change Patient. The Change Patient window will open.
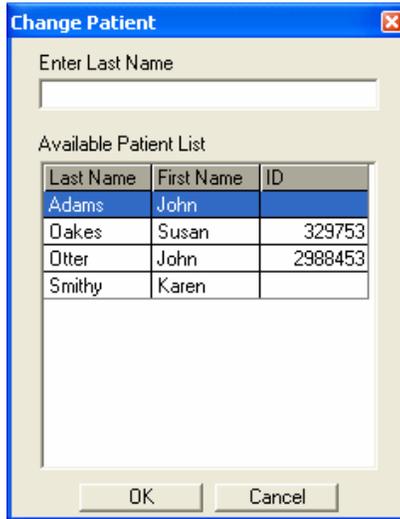
- Double left click on the name of the patient who should have received the image, or type in the last name of the patient who should have received the image for Visix to locate it for you, then left click on the name once and click on the Change button.

Anatomical Region

When Anatomical Region is selected the following window will open:
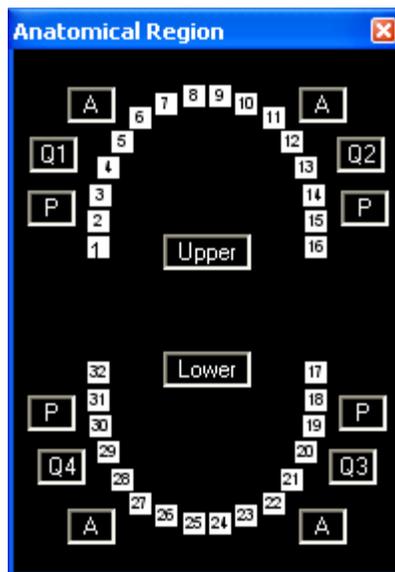
This is identical to the Anatomical Region of the Search Criteria in the Patients Window. You can associate an anatomical region to each image, selecting which teeth are represented in the image. Clicking the "A", "P", or quadrant will highlight the corresponding teeth in green. Clicking the "Upper" and "Lower" buttons will also highlight the corresponding teeth in green. Additionally you can highlight single teeth by left clicking over the tooth number.

Clicking over an already highlighted tooth (teeth) will de-select that tooth (teeth).

The anatomical region will be saved once you "X" out of the Anatomical Region window. You will now be able to search for images based on their anatomical region in the Search Criteria section of the Patients Window.

Keywords

When Keywords is selected the Keywords window will display:
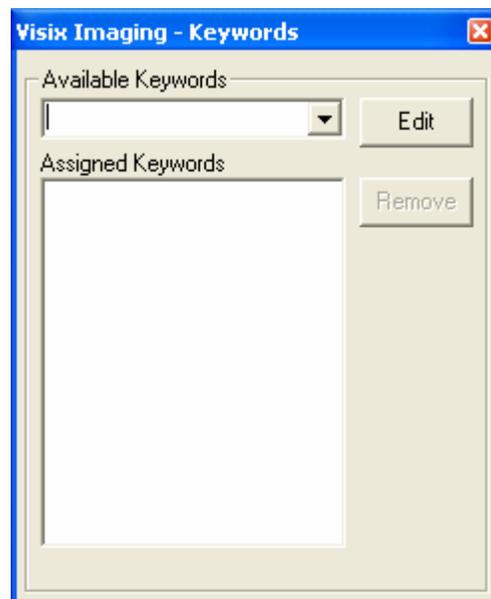
The Keywords window allows two actions:

- It allows Keywords to be added or deleted from the main Keywords List that supplies keywords to all of the images in Visix.

- Specific Keywords can be associated with the currently selected image

Add Keywords to the Main Keyword List

To add or delete Keywords from the main Keywords List, click on the Edit button on the right of the Available Keywords drop down box.
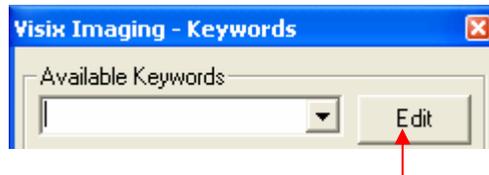
The following window will display:
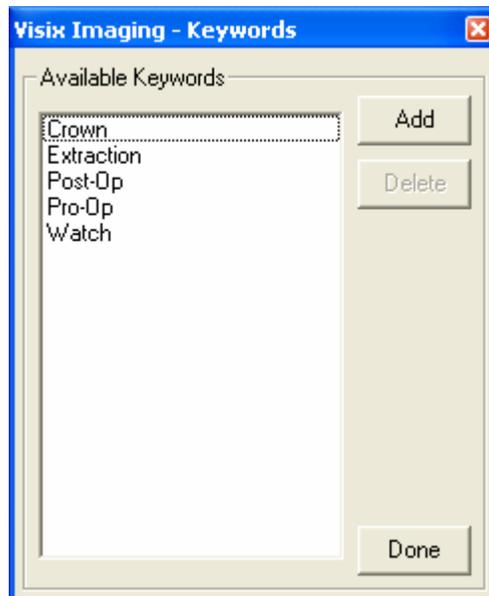
To Add a Keyword, click on the Add button at the top of the window then enter the keyword into the New Keyword window. Click on the OK button to save the new keyword.

Visix Imaging - Please enter a new keyword.

Please enter a new keyword.

OK

Cancel

Click on the DONE button to close the Add Keyword window.

Assign A Keyword To An Image

To assign a keyword to a selected image, click on the down arrow of the Available Keywords drop down box

Visix Imaging - Keywords

Available Keywords

Edit

Crown
Extraction

then select the keyword. The keyword must exist in the Main Keyword List before it can be assigned to an image.

Multiple Keywords can be assigned to an image. When all of the applicable Keywords have been assigned to the image, click on the window's Close button ⊠ to close the Keyword and Procedures window. Note: If the keyword to assign does not appear in the drop down box, add the keyword to the main Keyword List following the Add Keywords To The Main Keyword List instructions above.

Remove a Keyword from an Image

To Remove a Keyword that was assigned to an image, click on the Keyword then click the Remove Button.
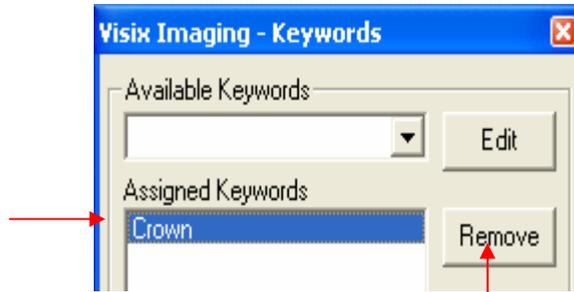
When finished, click on the window's Close button ❎ to close the Keywords window.

Delete a Keyword From The Main Keyword List

To Delete a Keyword from the Main Keyword List, click on the Edit button on the Keyword window.

In the window that opens click on the Keyword to delete, and then click on the Delete button.
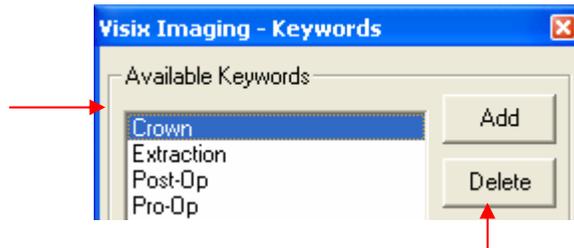
Click on the Done button to close the Edit Keywords window then on the window's Close button ❎ to close the main Keywords window.

Flip

When Flip is selected the following window will display:

Left/Right

Selecting Left/Right will cause the selected image to flip 180 degrees. If the image was facing left, it will now face right. If the image was facing right, it will now face left.

Top/Bottom

Selecting Top/Bottom will cause the selected image to flip from top to bottom. If the top of the image was right side up, after flipping it will be upside down. If the top of the image was upside down, it will change to right side up.

Rotate

When Rotate is selected the following window will display:

```
Rotate 90 CW
Rotate 90 CCW
Rotate 180
```

Rotate 90 CW

Selecting Rotate 90 CW will cause the selected image to turn 90 degrees clockwise (CW).

Rotate 90 CCW

Selecting Rotate 90 CCW will cause the selected image to turn 90 degrees counter clockwise (CCW).

Rotate 180

Selecting Rotate 180 will cause the selected image to turn 180 degrees.

Properties

When Properties is selected the following window will display:

Image 1 - Properties

General

Type: Imported Image

Created:	Friday, January 13, 2006	Edit
Imported:	Friday, February 03, 2006	

Patient: Susan Oakes
Patient ID: 329753
Gender/Age: , 75

Provider: System Admin

Practice: C:\Program Files\Visix\Data\Images\img31.tig
Size: 3.5 KB, (3,526 Bytes)

Close
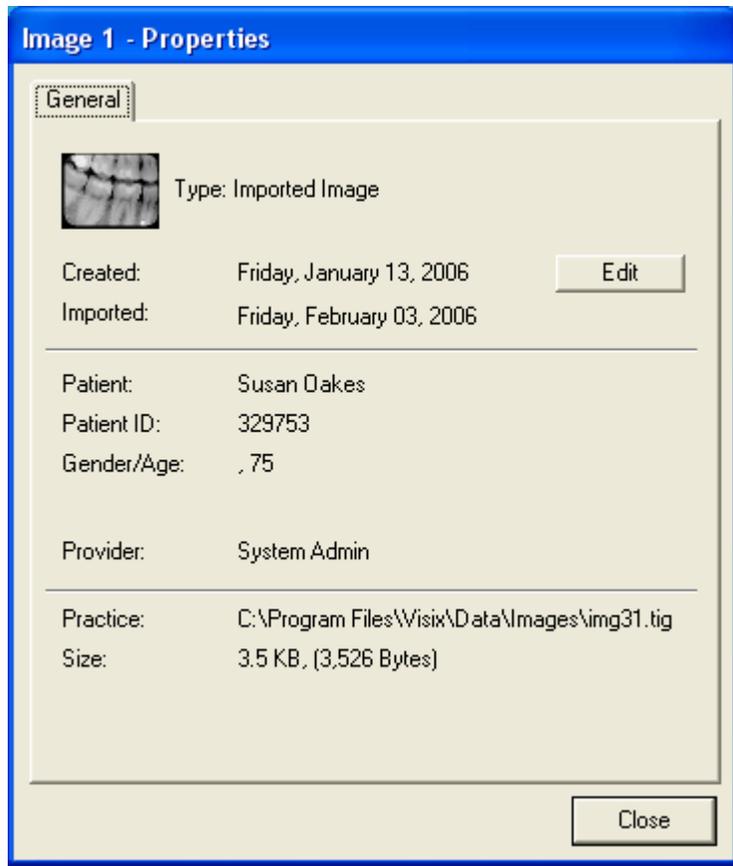
The information displayed on the General tab includes the type of equipment used to capture the currently selected image, the name, ID, gender, and age of the patient the image was taken of, the name of the provider for this patient, the date the image was acquired, where the image is stored, what the stored image is called, and how large the image is.

Change the Creation Date for Images imported

If the image was imported, an Edit button Edit... will appear on the Properties window that will allow the Creation Date for the image to be changed.

Acquisition Windows

X-Rays - Accent Sensor
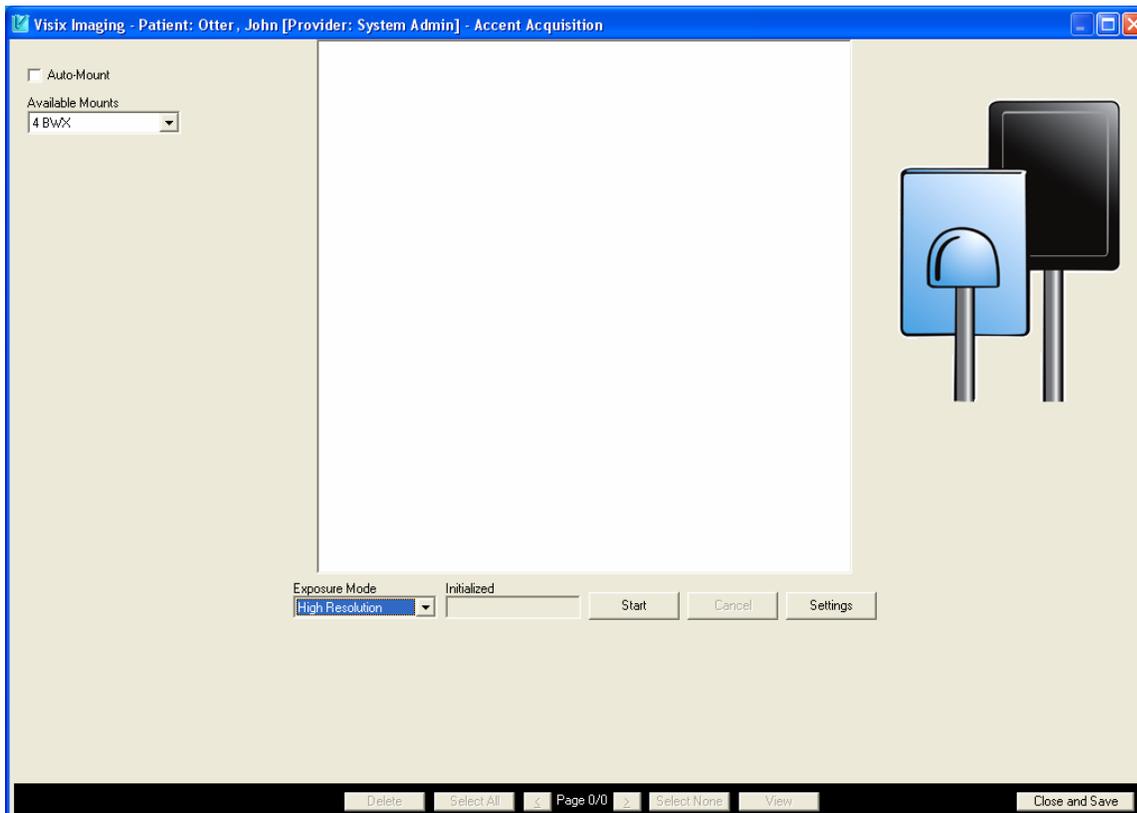
Images are entered into Visix through the Acquisition buttons. The input methods consist of X-rays, Video, and imported images.
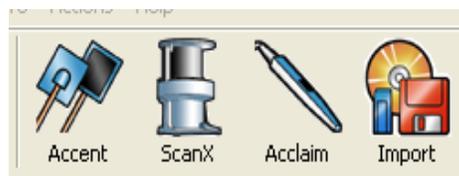
Acquiring images from Accent Sensor

Once you select the Accent sensor icon the Accent acquisition window will open. If the device is installed per manufacturer instructions, you will see the status bar flash and then hold solid green. This lets you know the sensor has been initialized and is ready to acquire images.

Click Start to open the sub-acquisition window of the accent sensor.

Settings Button for Accent Sensor Settings...

The Settings button will display windows that hold optional settings for the sensor that is connected to this computer. These settings are advanced and will apply to <u>all</u> of the future images acquired by this sensor.

Settings Button – Low Res. Settings – Accent sensor
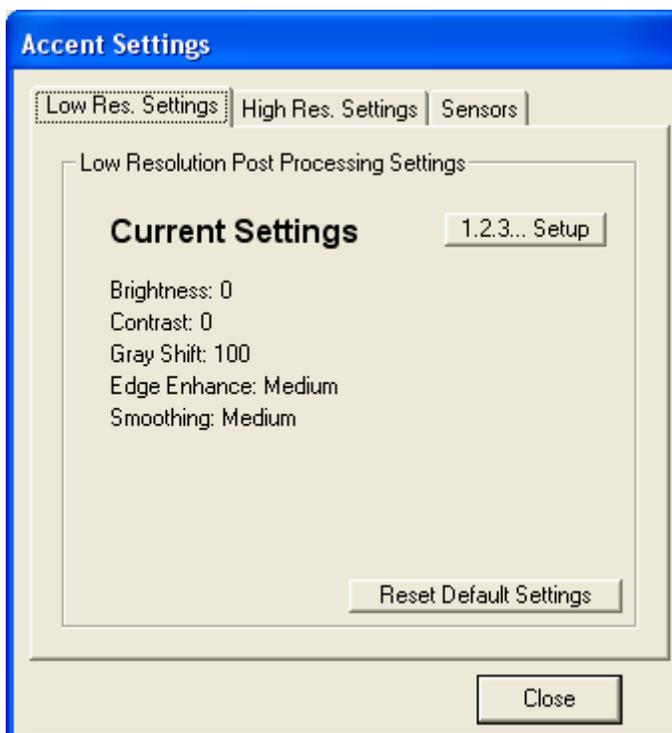
The Low Res. Settings tab displays the Current Settings that are applied to every Low Resolution image from Accent. The default settings are displayed above. You can always return to the default settings by clicking "Restore Default Settings" button.

1, 2, 3… Setup

1, 2, 3… Setup is a tool that guides you through achieving the best image quality possible. You must process at least one Low Res. image before using the 1, 2, 3…Setup tool. Changes made in 1, 2, 3…Setup under the Low Res. tab will only be applied to future Low Res. images from Accent.

Step 1

Step 1 allows the user to set the amount of edge enhancement filters they would like applied to all future Low Resolution images, and ranges from None to High. Edge enhancement filters will sharpen the contrast between whites and blacks within the image and are sometimes described as giving a "sharper" look.

As you select levels of enhancement you will see live feedback on your last processed image to determine which setting you like best.

The Advanced button should only be accessed by trained service personal! Changing its values may adversely affect image quality.

Clicking Back will exit out of the 1, 2, 3…Setup tool without saving any of the changes you have made.

Click Next to move to Step 2

Step 2

Step 2 allows the user to set the amount of smoothing they would like applied to all future Low Resolution images, and ranges from None to High. Smoothing filters will attempt to remove any extra "noise" or graininess from the image caused by the edge sharpening applied.

As you select levels of smoothing you will see live feedback on your last processed image to determine which setting you like best.

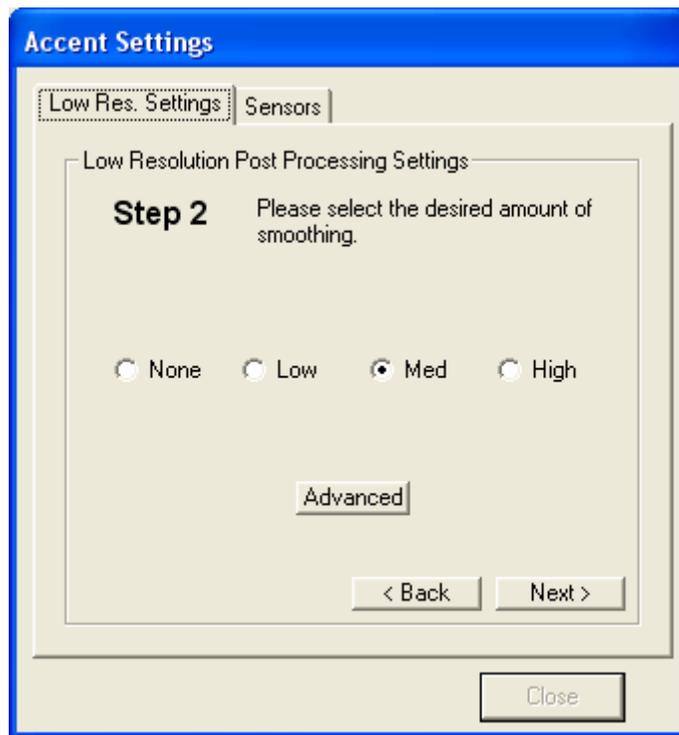The Advanced button should only be accessed by trained service personal! Changing its values may adversely affect image quality.

Clicking Back will return you to Step 1, Edge Enhancement. Clicking Back will undo any smoothing you have already applied.

Click Next to move to Step 3

Step 3

Step 3 allows the user to set the amount of brightness, contrast and gray shift (or gamma) that is applied to all future Low Resolution images.

The default values are shown in the screen shot above and can be set by clicking the Center Controls button below the sliders.

As you select levels of brightness, contrast or gray shift you will see live feedback on your last processed image to determine which setting you like best.

Clicking Back will return you to Step 2, Smoothing. Clicking Back will undo any brightness, contrast or gray shift settings you have already applied.

Click Finish to end the 1, 2, 3…Setup tool. You will see a summary of your new settings that will be applied to every Low Res. image taken with Accent.

The High Res. Settings tab displays the Current Settings that are applied to every High Resolution image from Accent. The default settings are displayed above. You can always return to the default settings by clicking "Restore Default Settings" button.

1, 2, 3… Setup

1, 2, 3… Setup is a tool that guides you through achieving the best image quality possible. You must process at least one High Res. image before using the 1, 2, 3…Setup tool. Changes made in 1, 2, 3…Setup under the High Res. tab will only be applied to future High Res. images from Accent.

Step 1

Step 1 allows the user to set the amount of edge enhancement filters they would like applied to all future High Resolution images, and ranges from None to High. Edge enhancement filters will sharpen the contrast between whites and blacks within the image and are sometimes described as giving a "sharper" look.

As you select levels of enhancement you will see live feedback on your last processed image to determine which setting you like best.

The Advanced button should only be accessed by trained service personal! Changing its values may adversely affect image quality.

Clicking Back will exit out of the 1, 2, 3…Setup tool without saving any of the changes you have made.

Click Next to move to Step 2

Step 2

Step 2 allows the user to set the amount of smoothing they would like applied to all future High Resolution images, and ranges from None to High. Smoothing filters will attempt to remove any extra "noise" or graininess from the image caused by the edge sharpening applied.
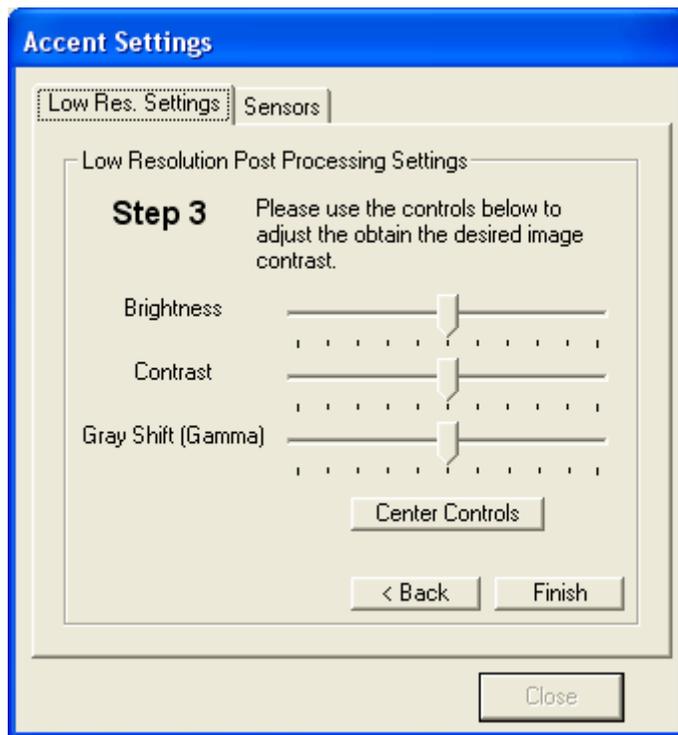
As you select levels of smoothing you will see live feedback on your last processed image to determine which setting you like best.

The Advanced button should only be accessed by trained service personal! Changing its values may adversely affect image quality.

Clicking Back will return you to Step 1, Edge Enhancement. Clicking Back will undo any smoothing you have already applied.

Click Next to move to Step 3

Step 3

Step 3 allows the user to set the amount of brightness, contrast and gray shift (or gamma) that is applied to all future images.
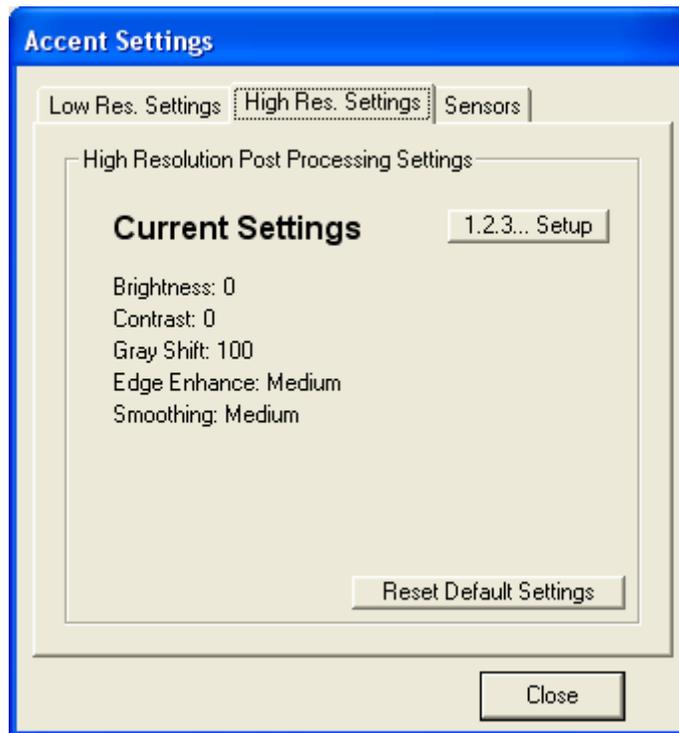
The default values are shown in the screen shot above and can be set by clicking the Center Controls button below the sliders.

As you select levels of brightness, contrast or gray shift you will see live feedback on your last processed image to determine which setting you like best.

Clicking Back will return you to Step 2, Smoothing. Clicking Back will undo any brightness, contrast or gray shift settings you have already applied.

Click Finish to end the 1, 2, 3…Setup tool. You will see a summary of your new settings that will be applied to every Low Res. image taken with Accent.
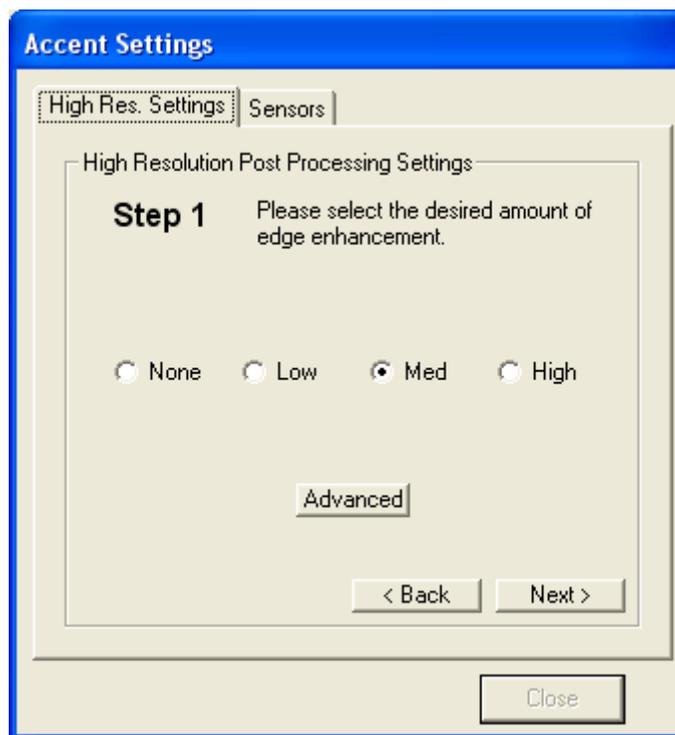
Settings Button – Sensors Window – Accent sensor
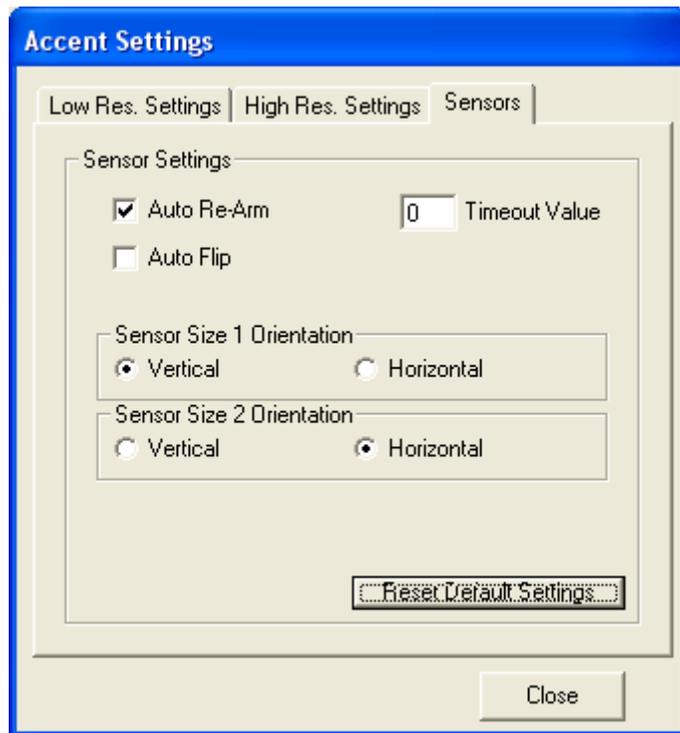
Auto Re-Arm

>   Place a check in the Auto Re-Arm checkbox to have the
>   sensor automatically reset itself for another picture as soon
>   as the previous picture has been taken.

Timeout Value

>   The Timeout Value is the amount of time Visix will wait for
>   the Sensor to finish initializing and become ready to accept
>   information before timing out. The default value of 0 will
>   cause the sensor to never time out.

Sensor Size Orientation

>   The sensor size orientation lists each size of sensor and
>   whether it is to be displayed in Visix in a vertical or
>   horizontal position. No matter how an image is brought
>   into Visix, its orientation can always be changed later, from
>   vertical to horizontal or from horizontal to vertical. Please
>   refer to the Images Window, Right Click On An Image
>   section of this manual for instructions on how to rotate and
>   flip individual images.

During the Acquire Process

Visix will automatically capture the image from the sensor. If the Cancel button [Cancel] is clicked during the acquire process, the acquire process will be aborted.
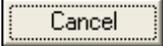
After the Acquire Process

Once an image has been acquired it will appear in the area under the Start button.

To check an image, double click on the image to open it into the Visix Image Viewer. If the image quality is acceptable, close the Image Viewer by clicking on the Close Window box [X] in the upper right corner of the window and either continue acquiring images or move on to selecting the images and saving them into Visix. If the image quality is not acceptable, close the Image Viewer, and reacquire the image. Once the image is acceptable, select the image then click on the Save button to save the image into Visix.

Image Buttons below the Current Image Box

| Delete | Select All | < | Page1/1 | > | Select None | View | | Close and Save |

Select an Image

To select an image, left click on it. To select multiple images, left click on the rest of the desired images. To select all of the images click on the Select All button at the bottom of the window. [Select All]   A selected image will have a green box around it.

Deselect an Image

To deselect an image, left click on it again. To deselect all of the selected images, click on the Select None button at the bottom of the window. [Select None]

Delete an Image

To delete an image, first select the image or images to be deleted, and then click on the Delete button at the bottom of the window. [Delete]

View an Image

To view an image, double-click the image you would like to view, or select multiple images by left clicking them to highlight them and then click the View button at the bottom of the window. [View]

Save an Image

To save an image or images, click the Save and Close button at the bottom of the window. All images will be automatically saved. [Close and Save]

Open an Image into the Image Viewer or Viewer window

To open a single image into the Image Viewer or Viewer window, double click on the image using the left mouse button or right click on the image and select View from the Right Click Image Menu.

Multiple images can be opened into the Viewer window. To open multiple images into the Viewer window either click on the Select All button then right click on one of the selected images and select View from the Right Click Image Menu or on the bottom of the screen, or left click once on each image that needs to be viewed to select it, then right click on one of the selected images and select View from the Right Click Image Menu.

For instructions on how to use the Image Viewer window, please refer to the Image Viewer Window section of this manual.

Acquisition

X-rays –ScanX
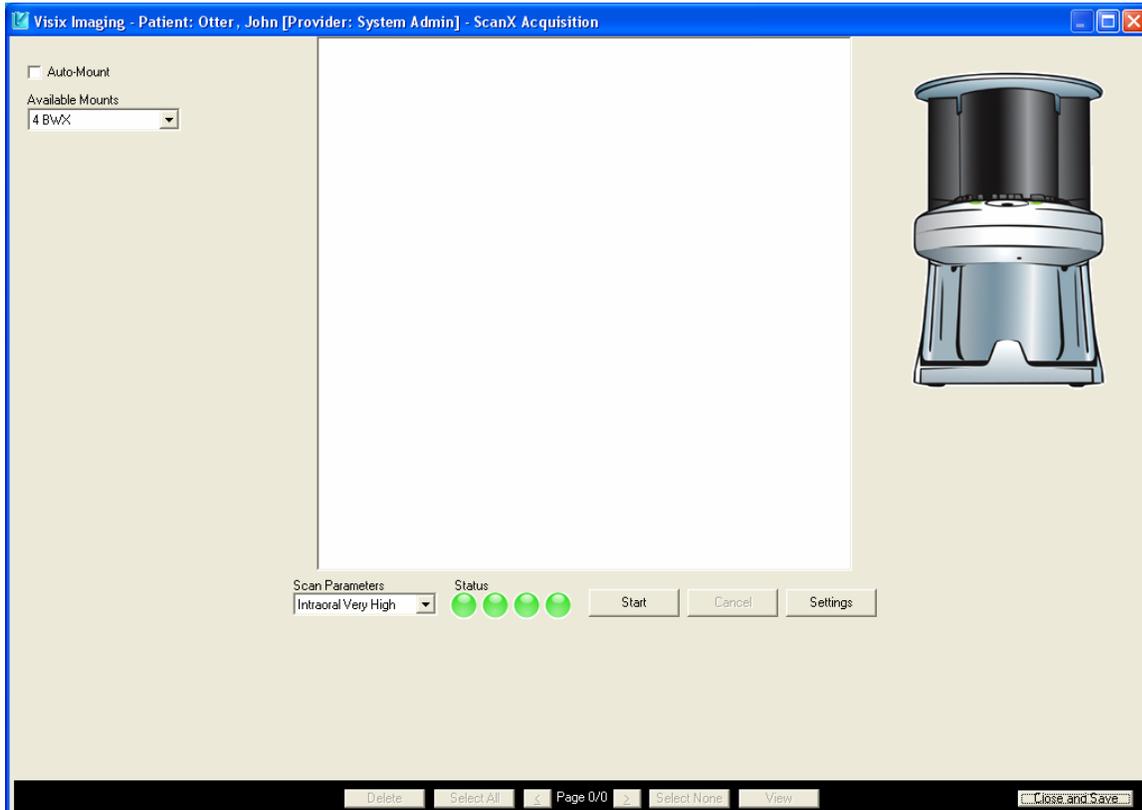
Images are entered into Visix through the Acquisition buttons. The input methods consist of X-rays, Video, and imported images.
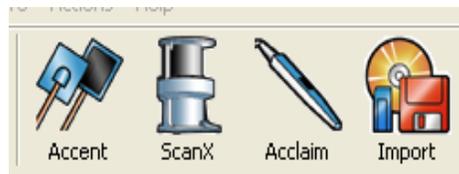
Scan Settings for a ScanX Scanner

Like traditional film, the scan settings for the ScanX phosphor plate scanner are set in line pair. Selecting a high or very high resolution setting with more line pair per millimeter will result in a greater amount of detail in the resulting image. It will also save a larger file that requires

more hard drive space. For most x-rays, a Standard resolution scan setting is appropriate.
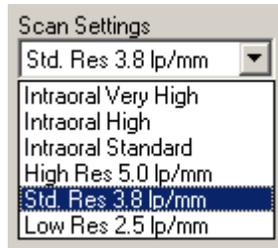
Settings Button for a ScanX Scanner

The Settings button will display windows that hold optional scanning settings for the ScanX scanner that is connected to this computer. These settings are advanced and will affect all future images acquired by this scanner.

Settings Button – Intra-Oral Window – ScanX scanner
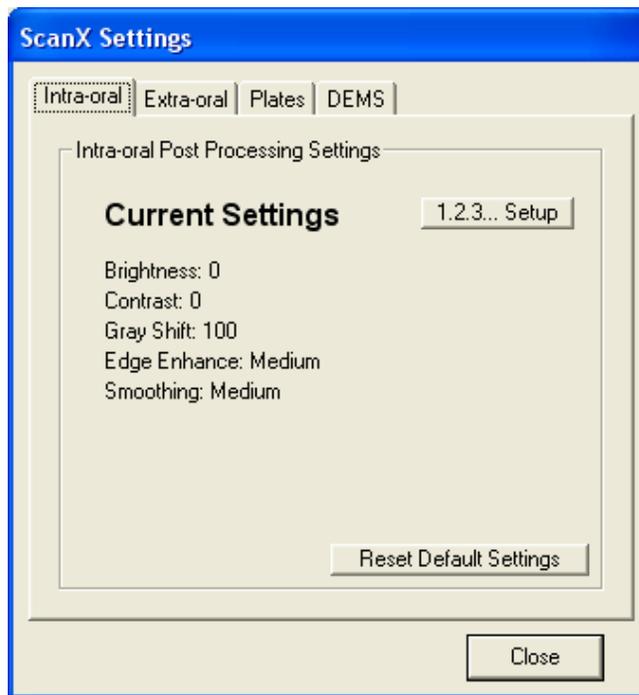
The intra-oral tab displays the Current Settings that are applied to every image that gets scanned through the ScanX. The default settings are displayed above. You can

always return to the default settings by clicking "Reset Default Settings" button.

1, 2, 3… Setup

1, 2, 3… Setup is a tool that guides you through achieving the best image quality possible. You must process at least one image before using the 1, 2, 3…Setup tool. Changes made in 1, 2, 3…Setup under the Intra-oral tab will only be applied to future Intra-oral images.

Step 1

Step 1 allows the user to set the amount of edge enhancement filters they would like applied to all future images, and ranges from None to High. Edge enhancement filters increase the sharpness of the edges and structure of the teeth.

As you select different levels of edge enhancement you will see live feedback on your last processed image to determine which setting you like best. The selected enhancements will effect all future images.

The Advanced button should only be accessed by trained service personnel! Changing its values may adversely affect image quality.

Clicking Back will exit out of the 1, 2, 3…Setup tool without saving any of the changes you have made.

Click Next to move to Step 2

Step 2

Step 2 allows the user to set the amount of smoothing they would like applied to all future images, and ranges from None to High. Smoothing filters will attempt to remove any extra "noise" or graininess from the image caused by the edge sharpening applied.

As you select different levels of smoothing you will see the result of your smoothing on your last processed image to determine which setting you like best.

The Advanced button should only be accessed by trained service personnel! Changing its values may adversely affect image quality.

Clicking Back will return you to Step 1, Edge Enhancement. Clicking Back will undo any smoothing you have already applied.

Click Next to move to Step 3
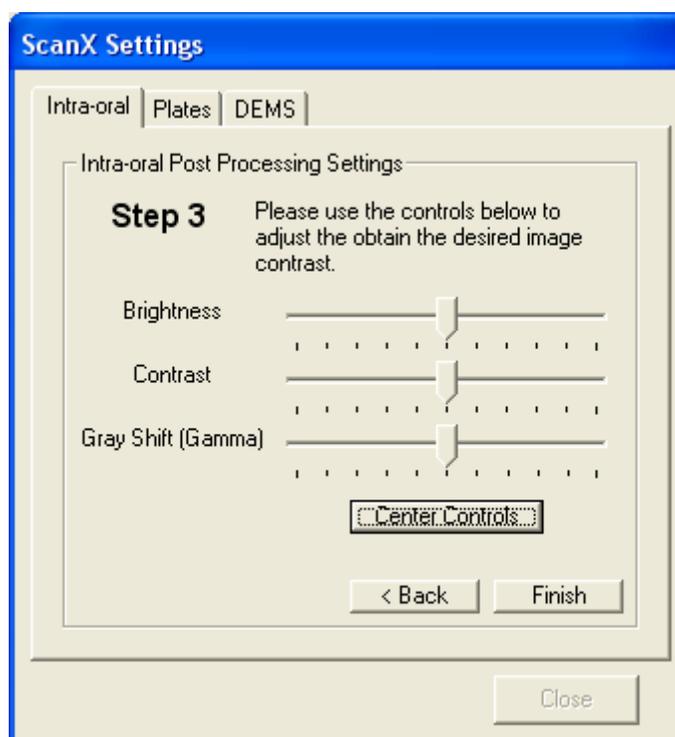
Step 3

Step 3 allows the user to set the amount of brightness, contrast and gray shift (or gamma) that is applied to all future images.

The default values are shown in the screen shot above and can be set by clicking the Center Controls button below the sliders.

As you adjust levels of brightness, contrast or gray shift you will see the result of your adjustment on the last image you scanned to determine which setting you like best.

Clicking Back will return you to Step 2, Smoothing. Clicking Back will undo any brightness, contrast or gray shift settings you have already applied.

Click Finish to end the 1, 2, 3…Setup tool. You will see a summary of your new settings that will be applied to every intra-oral image processed through the ScanX.

Settings Button – Extra-oral Window – ScanX scanner
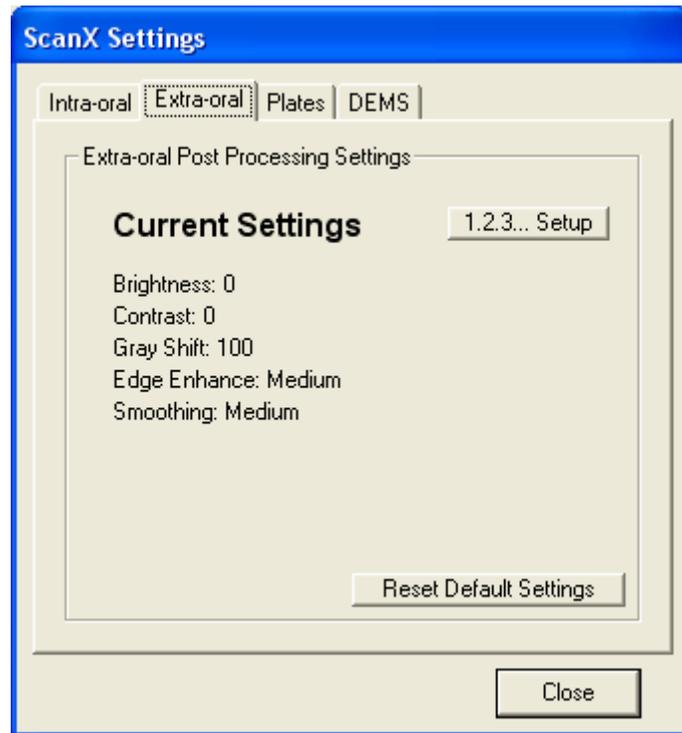
Extra-oral Settings

The Extra-oral settings are the same as the Intra-oral settings except that they refer to non Intra-oral images.

1, 2, 3…Setup

1, 2, 3… Setup is a tool that guides you through achieving the best image quality possible. You must process at least one image before using the 1, 2, 3…Setup tool. Changes made in 1, 2, 3…Setup under the Extra-oral tab will only be applied to future Extra-oral images.

See the 1, 2, 3…Setup part of this manual above for further instructions on using this tool.

Settings Button – Plates Window – ScanX scanner
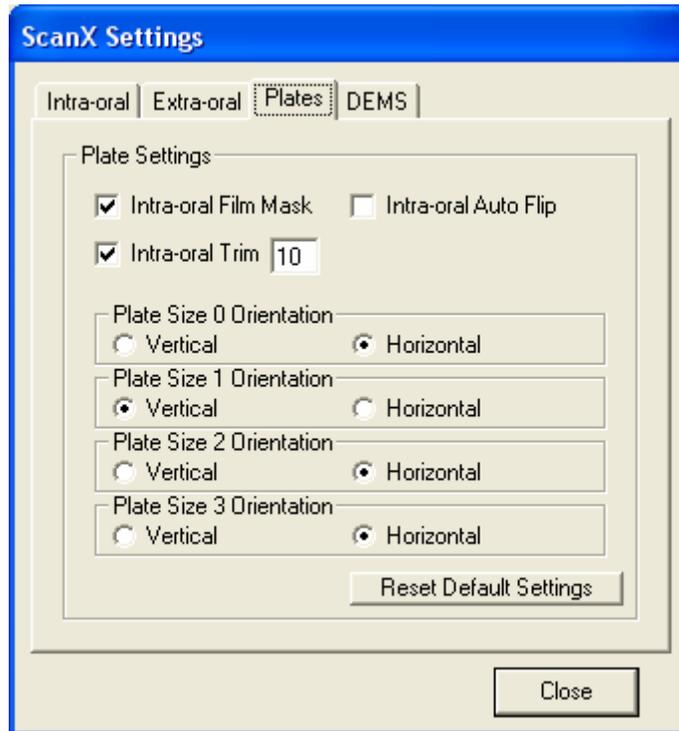
Intra-oral Film Mask

> A Film Mask is a black border around an image that is similar to a mat around a picture. This border can make the edges of the image look sharper. A check mark indicates that a film mask will be placed on all future ScanX scanned images.

Intra-oral Auto Flip

> When an image is Auto Flipped the view is as though sitting on the other side of the item being x-rayed looking at the x-ray head.

Intra-oral Trim

> By default this option will be selected with a value of 10 (the highest). Values between 1 and 10 are acceptable for this field. An example of intra-oral trim being used would be a cone-cut image, or an image from the ScanX that captured extra "scatter" around the edges of the image. This can result in a white border remaining around the image – Intra-

oral trim will delete this extra white information so you have the cleanest image possible.

Plates

The Plates window lists each size of intra-oral phosphor plates and whether it is to be displayed in Visix in a vertical or horizontal position. No matter how an image is brought into Visix, its orientation can always be changed later, from vertical to horizontal or from horizontal to vertical. Please refer to the Images Window, Right Click On An Image section of this manual for instructions on how to rotate and flip individual images.

Restore Default Settings

Clicking this button will restore the default settings which are shown in the screen shot above.

Settings Button – DEMS Window – ScanX scanner
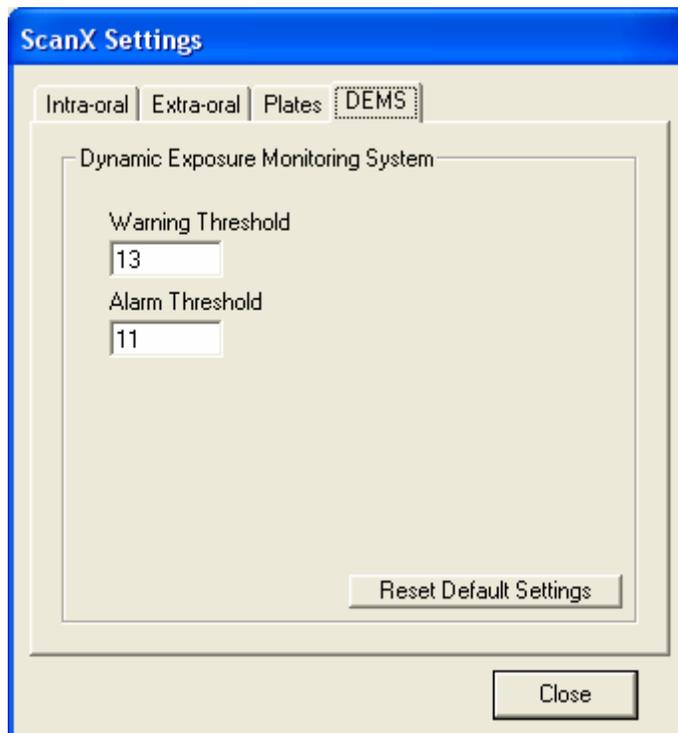
DEMS

DEMS stands for Dynamic Exposure Monitoring System. The DEMS thresholds are an advanced feature that should never be altered by the user without the permission of a Visix representative. If, for some reason, the DEMS settings are altered, clicking on the Reset Default Settings button will restore the original settings.

The Dynamic Exposure Monitoring System lets the user know if the image being captured was shot with a less than optimum x-ray exposure setting.

Slot Status

Before beginning a scan make sure the four Slot Status lights on the Acquire window and the four Slot Status lights on the ScanX scanner are colored green.
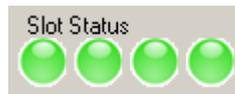
If the lights are all green the ScanX is ready to be used.

At the ScanX Scanner

Load the phosphor plate or plates into the ScanX scanner according to the manufacturer's directions.

During the Scanning Process

Visix will automatically capture the image from the ScanX scanner. As the phosphor plate or plates advance through the ScanX scanner they will drop down the Visix Current Image box on the Acquire window in a waterfall effect. As the plate is being scanned the Slot Status light on the ScanX scanner and the corresponding light in Visix will turn red. A red light indicates that an image is being processed in that slot. When a light turns green another phosphor plate can be inserted in that slot to begin another scan. If the Cancel Button is clicked during the scanning process, the scan will be aborted.

Please note that the Current Image box (waterfall) on the Acquire Window is not a diagnostic quality image. The Current Image box is only used to show the image's progression through the scanning equipment.

After the Scanning Process

Once an image has been scanned it will move from the Current Image box on the Acquire window to the area under the Scan Settings drop down box. A DEMS light on each image will be green if an adequate amount of information was processed, yellow if the amount of processed information was less than 13 bits, and red if the image should be checked.

Image Buttons below the Current Image Box

| Delete | Select All | < Page1/1 > | Select None | View | Close and Save |

Select an Image

To select an image, left click on it. To select multiple images, left click on the rest of the desired images. To select all of the images click on the Select All button at the bottom of the window. Select All A selected image will have a green box around it.

Deselect an Image

To deselect an image, left click on it again. To deselect all of the selected images, click on the Select None button at the bottom of the window. Select None

Delete an Image

To delete an image, first select the image or images to be deleted, and then click on the Delete button at the bottom of the window. Delete

View an Image

To view an image, double-click the image you would like to view, or select multiple images by left clicking them to

highlight them and then click the View button at the bottom of the window. [View]

Save an Image

To save an image or images, click the Save and Close button at the bottom of the window. All images will be automatically saved. [Close and Save]

Open an Image into the Image Viewer or Viewer window

To open a single image into the Image Viewer or Viewer window, double click on the image using the left mouse button or right click on the image and select View from the Right Click Image Menu.

Multiple images can be opened into the Viewer window. To open multiple images into the Viewer window either click on the Select All button then right click on one of the selected images and select View from the Right Click Image Menu or on the bottom of the screen, or left click once on each image that needs to be viewed to select it, then right click on one of the selected images and select View from the Right Click Image Menu.

For instructions on how to use the Image Viewer window, please refer to the Image Viewer Window section of this manual.

Acquisition Windows

Video - Acclaim Camera
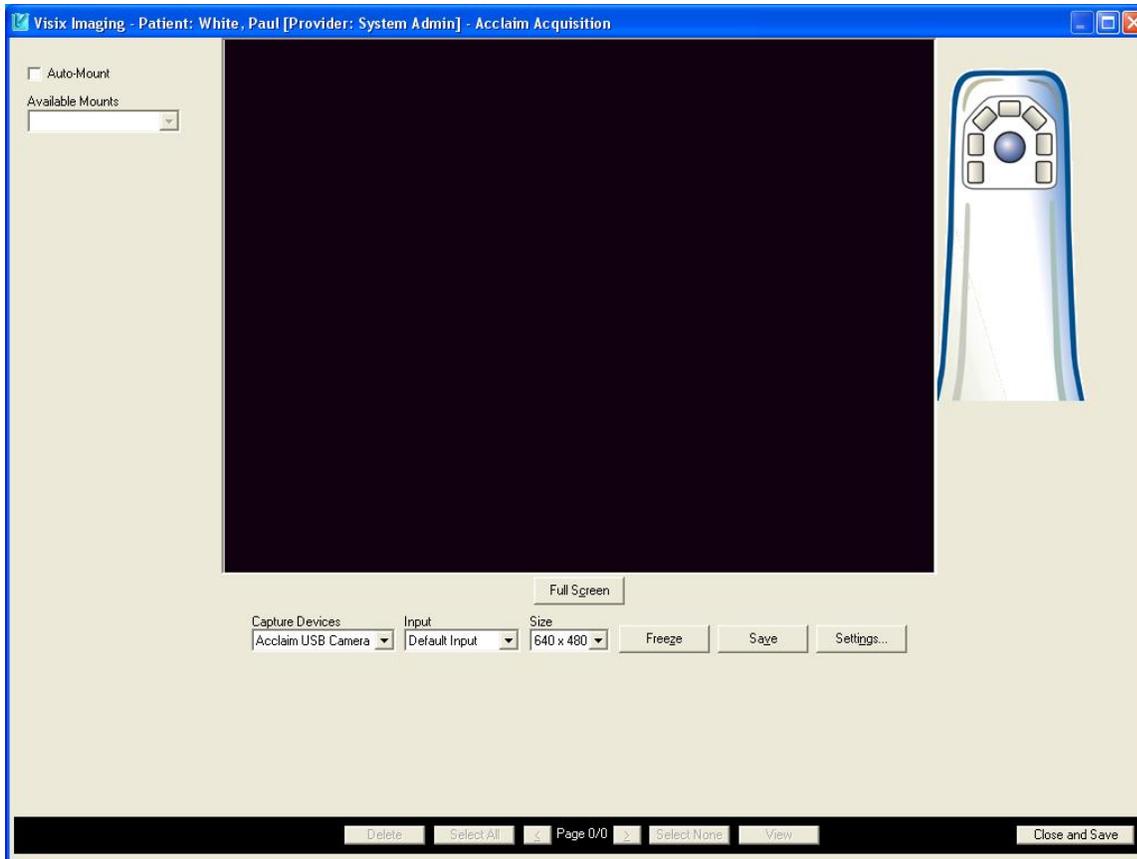
Images are entered into Visix through the Acquisition buttons. The input methods consist of X-rays, Video, and imported images.

Capture Devices

Click on the down arrow of the Capture Devices drop down box to display the devices Visix can retrieve video clips and still images from. Select Acclaim USB Camera.

Input

This should read "Default Input" if the Acclaim drivers have been loaded successfully.

Size

Click on the down arrow of the Size drop down box to display the dpi (dots per inch) settings to save the video clips and still images in. A few of the available dpi settings are pictured below.

Select a dpi size. The recommended dpi for Acclaim is 640 by 480.

Freeze

Clicking this button will freeze the image from the camera. A still frame image will remain in the Preview Image box. After clicking Freeze, the button will change to read "Live". Clicking the "Freeze/Live" button again will bring the live feed back to the Preview Image box.

Save

After clicking "Freeze", while a still frame image is in the Preview Image box, the "Save" button is enabled. Click the "Save" button to capture the existing freeze frame image. A thumbnail will drop to the bottom of the screen. The image will go back to live feed.

Settings Button for a Acclaim Camera Settings...

Settings Button – Acclaim Camera
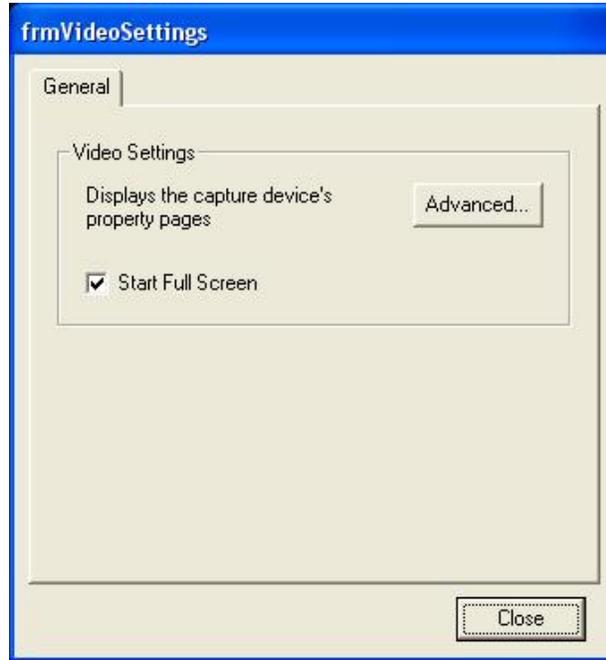
Start Full Screen

Checking this box will automatically start the video in full screen mode.

Advanced…Button – Acclaim Camera

Hitting this button will open the Acclaim camera's advanced properties window. Refer to manufacturer's manual for more in-depth information of the Acclaim camera.

Image Buttons below the Current Image Box

Select an Image

To select an image, left click on it. To select multiple images, left click on the rest of the desired images. To select all of the images click on the Select All button at the bottom of the window. [Select All] A selected image will have a green box around it.

Deselect an Image

To deselect an image, left click on it again. To deselect all of the selected images, click on the Select None button at the bottom of the window. [Select None]

Delete an Image

To delete an image, first select the image or images to be deleted, and then click on the Delete button at the bottom of the window. [Delete]

View an Image

To view an image, double-click the image you would like to view, or select multiple images by left clicking them to highlight them and then click the View button at the bottom of the window. [View]

Save an Image

To save an image or images, click the Save and Close button at the bottom of the window. All images will be automatically saved. [Close and Save]

Open an Image into the Image Viewer or Viewer window

To open a single image into the Image Viewer or Viewer window, double click on the image using the left mouse button or right click on the image and select View from the Right Click Image Menu.

Multiple images can be opened into the Viewer window. To open multiple images into the Viewer window either click on the Select All button then right click on one of the selected images and select View from the Right Click Image Menu or on the bottom of the screen, or left click once on each image that needs to be viewed to select it, then right click on one of the selected images and select View from the Right Click Image Menu.

For instructions on how to use the Image Viewer window, please refer to the Image Viewer Window section of this manual.

Acquisition Windows

Import
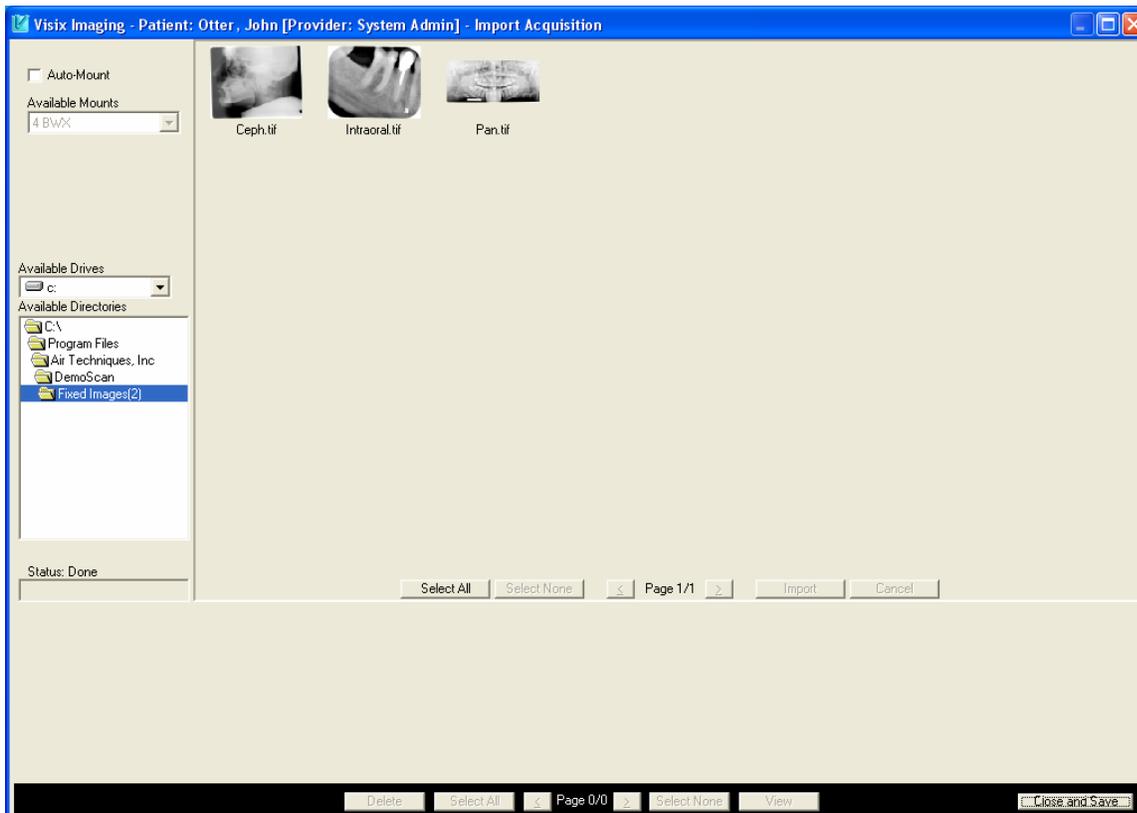
Images are entered into Visix through the Acquisition buttons. The input methods consist of X-rays, Video, and imported images.

Available Drives

Click on the drop down box arrow to display the list of drives this computer can access. If this computer is on a network and has network drives mapped, the network drives will also display.

Select the drive where the imported images can be found. Note that the computer views many digital cameras as removable hard drives.

Available Directories

After the drive is selected, a list of the folders (also called Directories) on that drive will display.

Select the folder where the imported images can be found. Any images in the selected folder (directory) on the selected drive will display in the Current Image box on the Acquire window.

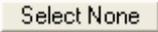To import an image, the image must be selected then imported, then selected and saved.

Image Buttons in the Current Image Box

Select an Image

To select an image, left click on it. To select all of the images click on the Select All button at the bottom of the window. A selected image will have a green box around it.

Deselect an Image

To deselect an image, click on it a second time. To deselect all of the images click on the Select None button at the bottom of the window. Select None
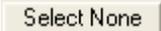
Import an Image

To import an image, first select the image or images that require importing then click on the Import button at the bottom of the Current Image box. Import   The image or images still need to be selected and saved into Visix.

Stop the Import

If, during the import operation, the image is no longer desired, click on the Cancel button at the bottom of the Current Image box. Cancel   The Cancel button will abort the import operation.

After the Import

Once an image has been selected and imported it will move to the area under the Available Directories box as a thumbnail image. The image still needs to be selected and saved into Visix.

To check an image, double click on the image to open it into the Visix Image Viewer or Viewer window.

Image Buttons below the Current Image Box

Delete	Select All	<	Page1/1	>	Select None	View	Close and Save

Select an Image

To select an image, left click on it. To select multiple images, left click on the rest of the desired images. To select all of the images click on the Select All button at the

bottom of the window. [Select All]   A selected image will have a green box around it.

Deselect an Image

To deselect an image, left click on it again. To deselect all of the selected images, click on the Select None button at the bottom of the window. [Select None]

Delete an Image

To delete an image, first select the image or images to be deleted, and then click on the Delete button at the bottom of the window. [Delete]

View an Image

To view an image, double-click the image you would like to view, or select multiple images by left clicking them to highlight them and then click the View button at the bottom of the window. [View]

Save an Image

To save an image or images, click the Save and Close button at the bottom of the window. All images will be automatically saved. [Close and Save]

Open an Image into the Image Viewer or Viewer window

To open a single image into the Image Viewer or Viewer window, double click on the image using the left mouse button or right click on the image and select View from the Right Click Image Menu.

Multiple images can be opened into the Viewer window. To open multiple images into the Viewer window either click on the Select All button then right click on one of the selected images and select View from the Right Click Image Menu or on the bottom of the screen, or left click once on each image that needs to be viewed to select it, then right click on one of the selected images and select View from the Right Click Image Menu.

For instructions on how to use the Image Viewer window, please refer to the Image Viewer Window section of this manual.

Mount Window
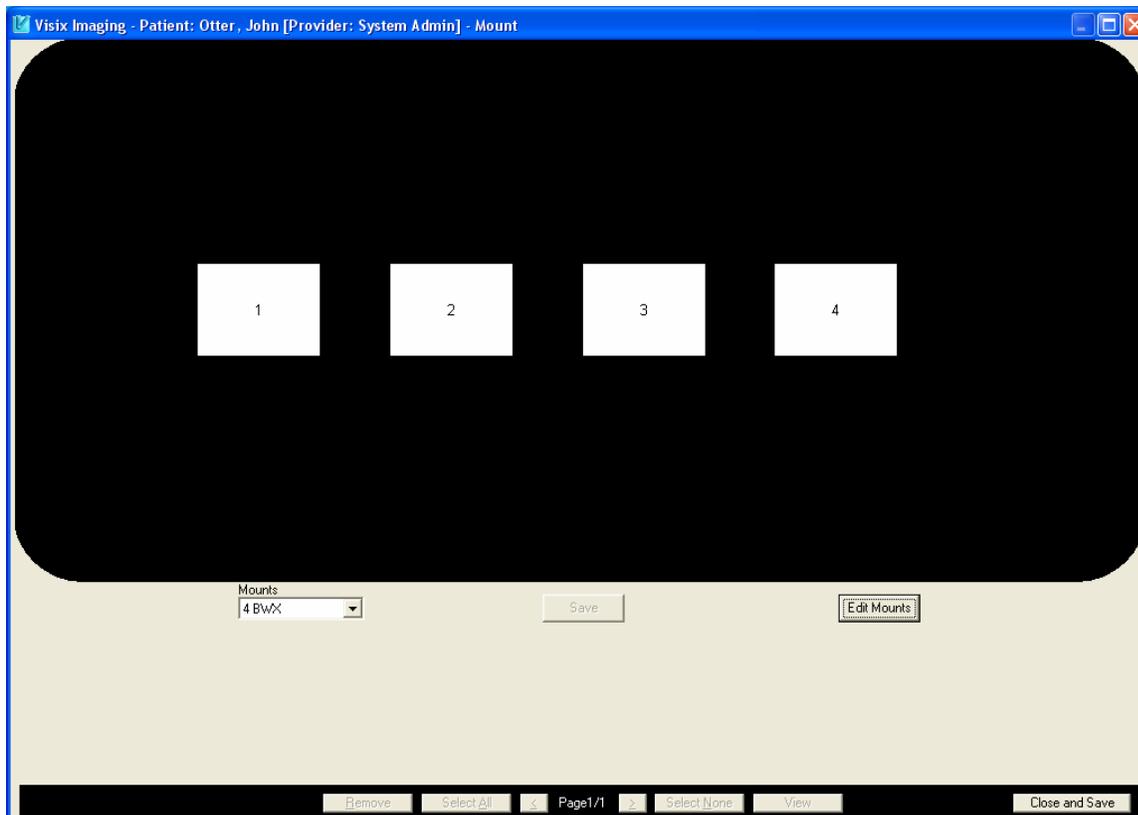
Digital images can be viewed, and/or mounted, from the Mount window. Any saved image can be brought to the Mount window.

Bring an Image to the Mount Window

To bring an image or images to the Mount window, highlight one or more images from the Patient Images window, and then click on the Mount button at the top of the main Visix window. The images will appear on the Mount window below the black Digital Light Box.

Using the Mount Window to View an Image

To use the Mount window like a digital light box, click on the down arrow of the Mounts drop down box and select Free Form. Then drag the images, one at a time, from the bottom of the Mount window onto the Digital Light Box. The larger the number of images displayed on the Digital Light Box, the smaller the images will appear.

Using the Mount Window to Mount Images

Mounting images is similar to placing existing images inside a mat that has multiple openings. The mounted images are now grouped together and can be viewed as one large picture. In the same way images can be placed into the same mount then viewed, exported, etc. as a single image.

Mount Images Using Existing Mount Templates

Drag the images that need to be mounted to the Mount window using the instructions in the Bring An Image To The Mount Window paragraph above. Click on the down arrow of the Mounts drop down box and select a mount. The Free Form mount is only used to view images. If Free Form is the only mount available, move on to the Create A New Mount section below.

The white boxes that appear in the black Digital Light Box are meant to hold the images. Drag the images, one at a time, onto a white box. The order that the images are dragged onto the white boxes does not matter.

To move an image within the mount, drag the image from its current location in the mount to a different Image Holder Box. To remove an image from the mount, right click on the image in the mount and select Remove from the Right Click Menu that appears. To change the orientation of an image in the mount from vertical to horizontal or from horizontal to vertical, the orientation of the white box that holds the image must be changed. For instructions on how to change the orientation of a white box on an existing mount please refer to the Edit An Existing Mount section below.

When the images have been correctly placed in the mount, click on the Create button [Create] to save them as a single mounted image

Making Changes after Images have been mounted and the Mount has been saved

Select the mount that needs to be edited then click on the Mount button. If images need to be added to the mount, they should be selected at the same time that the mount is selected. Select a mount plus additional images by

clicking on the mount, clicking on the extra images, and then clicking on the Mount button.

In the Mount window, drag the mount onto a black area of the Digital Light Box. The mount will open for editing. Images can be moved, removed or added to the mount.

Move an Image in an Existing Mount

Once an existing mount has been opened for editing, an image can be moved by dragging it to a different Image Holder Box.

Remove an Image from an Existing Mount

Once an existing mount has been opened for editing, an image can be removed from it by right clicking on the image and selecting Remove from the Right Click Menu that appears.

Adding an Image to an Existing Mount

The mount plus the images to add to it must be moved to the Mount window at the same time. Once an existing mount has been opened for editing, images can be added by dragging them to Image Holder Boxes.

Create a New Mount Template

To create a new mount, in the Mount window click on the Edit Mounts button.

Mounts			
Free Form ▼	Create		Edit Mounts

The area of the window underneath the Digital Light Box will change.

Click on the Add button to create a new mount.

Mounts				
Free Form ▼	Add	Edit	Delete	Close Editor

The area of the window underneath the Digital Light Box will change again.

Description
[   ]   [ ] [   ]   Save   Cancel

To create a new intra-oral mount, drag the box [ ] onto the Digital Light Box to create an Image Holder. The boxes that are dragged onto the Digital Light Box cannot touch each other. The box, when dragged onto the Digital Light Box, will expand to hold a large image when one is dragged onto it. The number on each image box is not important unless Auto Mounting is used. The large box

[   ] is used to create a mount opening for a panoramic image. Both boxes can be used in conjunction with each other to create a mount.

Image Holder Right Click Menu

To change one of the image holders on the Digitalightbox box, right click on it. The Image Holder Right Click Menu will appear.

Anatomical Region...
Keyword...

Rotate 90 Degrees
Compensate for Sensor Flip

Delete
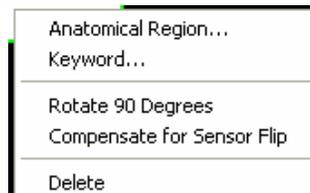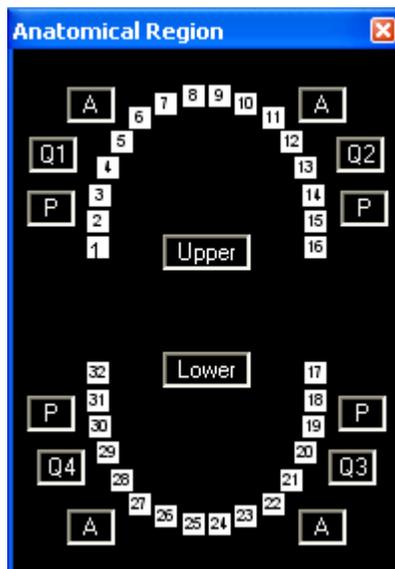
Anatomical Region

If the same type of image will always be placed in this image holder, the anatomical region represented can be preset. To select the region, click on individual teeth, the "A", "P", Quadrant, or Upper and Lower buttons.   To deselect a region, click the same buttons again. Click on the Close Window button ☒ at the top right of the Anatomical Region window to save the changes.

Keyword

If the same keyword will be assigned to every image placed in this image holder, the keyword associated with it can be preset. Assign Keywords by selecting them from the pull down menu. Refer for the Right click on an Image section of this manual for further information.

Rotate 90

Select Rotate 90 to rotate the Image Holder 90 degrees.

Compensate for Sensor Flip

Select Compensate for Sensor Flip to automatically flip an image being placed in this image holder by a sensor. A check will appear on the right click menu to indicate that this function has been activated. ✓ Compensate for Sensor Flip

Delete

Select Delete to remove the Image Holder from the mount.

Complete the New Mount

When the Image Holders are adjusted correctly in the mount, click in the Description box and enter a descriptive title for this mount, then click on the Save button to save the new mount.

Description		Save	Cancel

Edit an Existing Mount Template

To change an existing mount, in the Mount window click on the Edit Mounts button.

Mounts		
Free Form ▼	Create	Edit Mounts
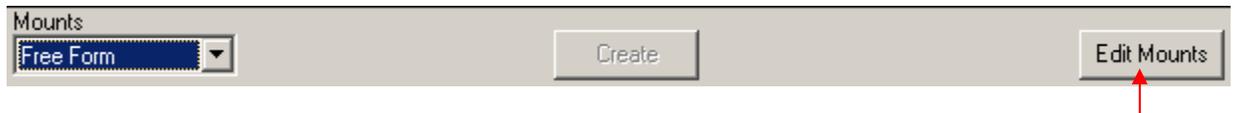
The area of the window underneath the Digital Light Box will change.

Click on the down arrow of the Mounts drop down box to select the mount to edit, then click on the Edit button to edit the selected mount.

Mounts				
3 Horizontal X-rays ▼	Add	Edit	Delete	Close Editor

The area of the window underneath the Digitalightbox box will again change.

Description		Save	Cancel
Double Mount			

Anything on the mount, including its description, can be changed. When all of the changes have been made, click on the Save button [Save] to save the mount.

Right Click Menu for Images in Mount Window

Right click on an image that is located on the Mount window's Digital Light Box opens the Mounted Image Right Click Menu displayed below.

View...

Extract

Copy

✓ Show Annotations

Delete

View

To view an image in the Image Viewer or View window, right click on the image in the Mount and select View from the menu that appears. In the Image Viewer and Viewer windows the image can be magnified, rotated, flipped, colorized, embossed, annotated, measured, inverted, etc.

Extract

To copy an image from the Digital Light Box to the area underneath the Digital Light Box, right click on the image in the Digital Light Box and select Extract from the menu that appears.

Copy

To copy an image to the clipboard from the Digital Light Box, right click on the image in the Digital Light Box and select Copy from the menu that appears.

Show Annotations

Show Annotations will cause the annotations to display on the thumbnail version of the image. Selecting Show Annotations when the annotations already display will cause the annotations to be hidden.

Delete

To delete an image from the Digital Light Box image box, right click on the image in the Digital Light Box and select Delete from the menu that appears.

How to Drag and Drop an Image – Mount Window

To drag an image

Place the cursor (the arrow that moves on the screen when the mouse is rolled on a flat surface) on top of the desired image. Press down and hold the left mouse button. While holding the left mouse button move the cursor, by sliding the mouse on a flat surface.

To drop an image

To drop an image, release the left mouse button.

Image Buttons

Select an Image

To select images, left click on them. To select all of the images click on the Select All button at the bottom of the window. A selected image will have a green box around it.

Deselect an Image

To deselect an image, left click on the image again. To deselect all of the selected images, click on the Select None button at the bottom of the window.

Remove an Image from the Mount Window

To remove an image from the Mount window, click on the image under the Digital Light Box then click on the Remove button at the bottom of the Mount window.

| Select All | Select None | ≤ | Page 1/1 | ≥ | Remove | View... |

If an image was mistakenly removed from the Mount window right click on the image in the mount and select Extract. A copy of the image will be placed under the Digital Light Box.

View an Image

To open an image in the Image Viewer or Viewer window, first select the image or images to be viewed, and then click on the View button at the bottom of the Images window.   Another way of opening images in the Image Viewer or Viewer window is to first select the image or images to be viewed, then right click on one of the images and select View from the right click menu. For instructions on how to use the Image Viewer window, please refer to the Image Viewer Window section of this manual.

Viewer Window
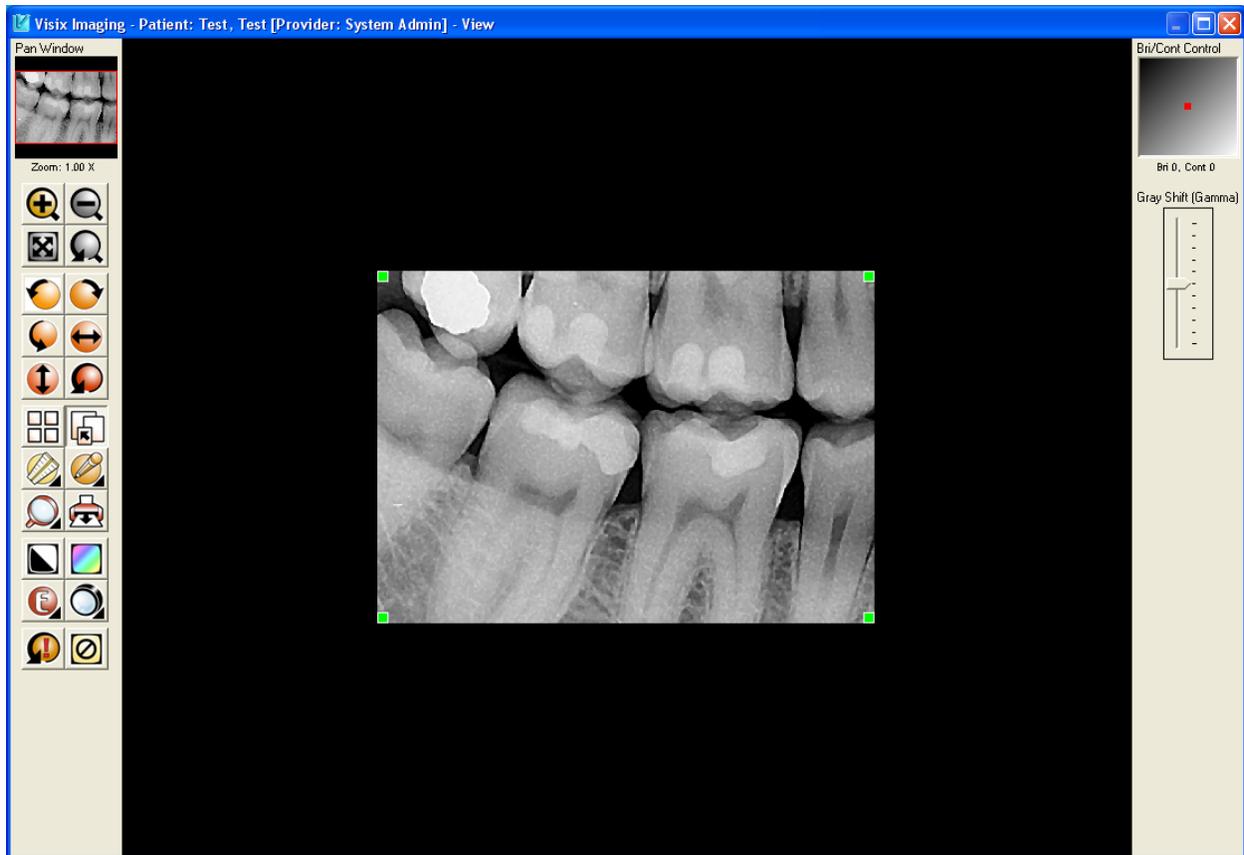
The Viewer window can be accessed by double clicking on any image except one that appears in the Current Image box on the Acquire window. The Viewer is used to examine and manipulate an image, through measurements of angles and lines, flipping, rotating, colorizing, zooming, changes in brightness and contrast, magnifying, annotations, etc.

Sections of the Viewer Window

The box where the image appears is the Current Image box. To the left of the Current Image box are the tools available to examine and manipulate the image. At the top of the Current Image box are any settings and requirements needed for the currently selected tool. To the right of the Current Image box are image settings that adjust the brightness and contrast.

Viewer Toolbar

Zoom In		Zoom Out
Full Screen		Reset Zoom
Rotate 90 degrees left		Rotate 90 degrees right
Rotate 180 degrees		Flip left to right
Flip top to bottom		Restore original orientation
Automatically arrange images		Manually arrange images
Measure		Annotate
Magnifying Glass		Print selected image
Negate image		Colorize image
Pseudo 3D		Sharpen Image Edges
Reset original image		Remove image from Viewer

Viewer Tools

The tools will affect the selected image on the Viewer window. Click on an image to select it. The selected image on the Viewer window will have a green box around it.

Zoom In

Each click on the Zoom In tool will make the image a little larger.

Zoom Out ⊖

Each click on the Zoom Out tool will make the image a little smaller until it's restored to its original size.

Full Screen ⤢

If more than one image is open in the Viewer, clicking on the Full Screen tool will make the selected image (the image with the green box around it) fill the entire Viewer window. Click on Full Screen again to return the image to its original size.

Reset Zoom 🔍

Click on the Reset Zoom tool to return the image to its original size.

Rotate 90 Degrees Counter Clockwise ↺

Click on this tool to turn the image 90 degrees to the left.

Rotate the Image 90 Degrees Clockwise ↻

Click on this tool to turn the image 90 degrees to the right.

Rotate the Image 180 Degrees ↻

Click on this tool to turn the image 180 degrees so that what had been at the top of the image is now at the bottom of the image.

Flip the Image from Left to Right ↔

Click on this tool to flip the image over from left to right.

Flip the Image from Top to Bottom

Click on this tool to flip the image over from top to bottom.

Reset the Image to its Original Orientation

Click on the Reset tool to return the image to the direction it was facing at the time the Viewer was opened.

Automatically Arrange Images

Click on the Auto Arrange Images tool to move the images in the Viewer to the position they were in when the Viewer was opened.

Manually Arrange Images

Click on the Manually Arrange Images tool to allow the images to be moved anywhere on the Viewer window. To move an image, click on the image and drag it to a new location.

Measure

Click on the Measure tool to open the Measure Options window. The Measure tool must be calibrated before it can be used. After calibrating, if the color the lines will be drawn in needs to be changed, click on the Line Color button and select a new color. At this point, measurements may be taken.

To close the Measure options window click on the Measure tool again.

Measure Calibrate   Show/Hide   Undo All

Line   Angle   Cs   Line Color   Undo Last
              A
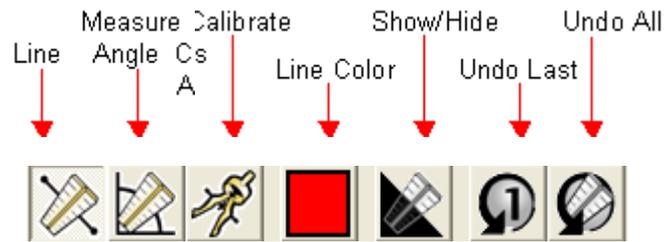
Line

Click on the Line option to measure a line. Left click on one end of the line then left click on the other end of the line. Right click to stop measuring lines.
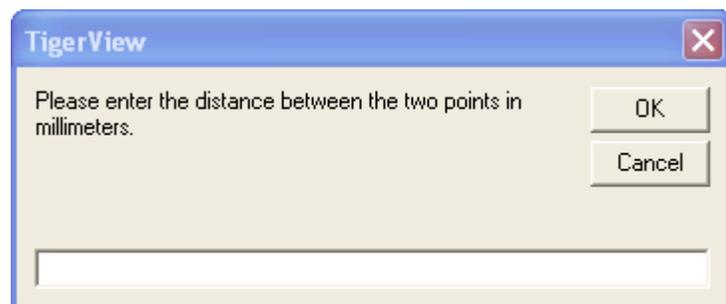
Angle

Click on the Angle option to measure an angle. Click on the end of one leg, then at the point of the angle, and finally on the end of the second leg. Right click to stop measuring angles.

Calibrate

Calibrate before attempting to measure anything.

To calibrate, something that has a known length in millimeters must be on the image. Click the Calibrate button, click on one end of the object to measure, then click on the opposite end of the object to measure. <u>Do not click and drag</u>.

The Calibrate window will appear.

Enter the length of the object in millimeters. For example, if the object is 20 millimeters long enter 20 then click on the OK button. Do not enter "mm" for millimeters. Once the system is calibrated, angles and lines can be measured.

Line Color

Select the color of the line from the pallet window that opens. The color must be selected before the line is drawn.

Show/Hide

The when the Measure tool is opened the default for Show/Hide is to Show the lines. Click on the Show/Hide option to allow the measurement lines to remain on the image but not display. Click on the Show/Hide option again to display the lines.

Undo Last

Delete the last measurement made on the currently selected image.

Undo All

Delete all of the measurement from the currently selected image.

Annotate

When the Annotate tool is clicked, the Annotation options window appears above the Current Image box. Note that annotations on an image cannot be moved or changed in any way. To move or change an annotation, the annotation must be deleted and then reentered.

To close the Annotation options window click on the Annotate tool again.
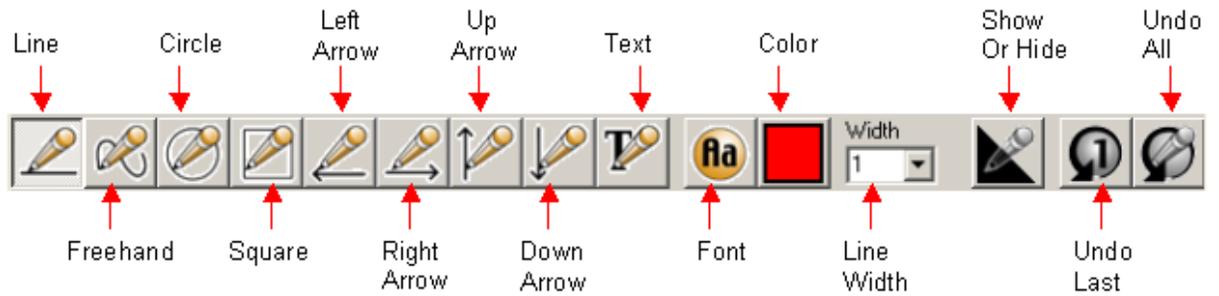
Line

Select the line width and color first, then left click on the image on one end of the line, left click on the other end of the line, and right click to stop the line drawing. A series of connected lines (for example, to draw a triangle) can be drawn by left clicking at each corner and right clicking only when all of the lines have been drawn.

Freehand

Select the line width and color first, then hold down the left mouse button and draw.

Circle

Select the line width and color, then click and drag a circle on the image.

Square

Select the line width and color first, then click and drag the square on the image.

Arrows

Select the left, right, up or down arrow option then left click where the tip of the arrowhead should be. Arrows and text are not affected by line width.

Text

Select the text color and font first then click on the point at which the first letter of the text should be placed. The Text

Entry window will display allowing the text to be entered. Arrows and text are not affected by line width.
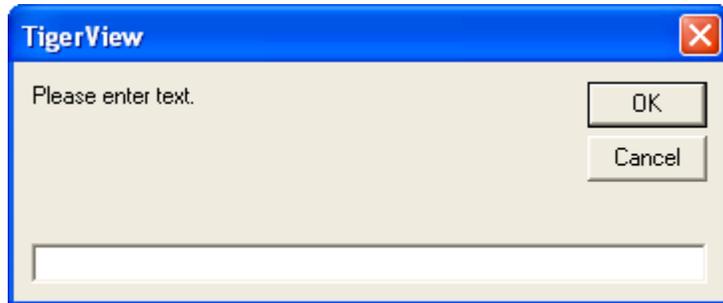
Font

Select the font, font style and font size for the text before entering the text.

Color

Select the color the annotation will display in before creating the annotation.

Width

Select the width of the line for a line, freehand, circle or square before it is drawn.

Show/Hide

The when the Annotation tool is opened the default for Show/Hide is to Show the annotations. Click on the Show/Hide option to allow the annotations to remain on the image but not display. Click on the Show/Hide option again to display the annotations.

Undo Last

Delete the last annotation placed on the currently selected image.

Undo All

> Delete all of the annotations from the currently selected image.

Magnifying Glass

> Click on the Magnifying Glass tool to open the Magnifying Glass Options window.

> Click on the desired shape, size, magnification amount and special effect then hold the left mouse button down as the mouse is moved over the image. The area under the mouse will be affected.
>
> Click on the Magnifying Glass tool again to close the Magnifying Glass Options window.

Print Selected Image

> When the Print tool is clicked, the Microsoft Print window is opened to select the device to print to, the number of copies to print, etc. The selected image will print. The patient's name, species, breed, gender, age, and owner will be displayed with the printed image, as will the provider's name and the date the image was taken. The practice's name and phone number will display above the image.

Negate Image

> When the Negate Image tool is clicked, the image areas that were black become white, and the image areas that

were white become black. Click the Negate Image tool again to return the image to its previous appearance.

Colorize Image

When the Colorize Tool is clicked, the selected image will be reverted to color. Colorizing substitutes colors for the grayscale values of an image. To return an image to its non-color view, click on the Colorize Image tool again.

Pseudo 3D

When the Pseudo 3D tool is clicked, the image will appear more three-dimensional helping to emphasize edges or different structures of the teeth. To return the image to 2D click on the Pseudo 3D tool again.

Sharpen Image Edges

Sharpness looks for the boundaries between the light and dark areas of an image. When a boundary is found, sharpening it will make the first few pixels on the dark side darker and the first few pixels on the white side whiter. This causes more contrast at the edges. Making an image too sharp can cause the image to appear grainy.

Click on the Sharpen Image Edges tool again to return the image to normal.

Reset Original Image

When clicked, the Reset Original Image button will return the image to its original appearance at the time the image was acquired. Measurements and annotations that were previously saved on the image will still be there.

Remove From Viewer ⊘

Removing an image from the Viewer does not delete the image from Visix; it simply takes the image off the Viewer window. Left click once on the image that needs to be removed to select the image. A green box displays around a selected image. Click on the Remove From Viewer button to take the image off the Viewer window.

Brightness/Contrast Control and Gray Shift (Gamma)

Clicking and dragging your mouse around the Bri/Cont control window will change the brightness and contrast of the selected image. Live feedback is shown for the user to find the desired amount of enhancement.

Clicking and dragging the gray shift (gamma) slider bar will change the gamma level for the selected image. Live feedback is shown for the user to find the desired amount of enhancement.

For questions about Visix that are not answered in this manual, please call the Visix support line at 1-866-90-VISIX from 7:00 AM CST to 7:00 PM CST.