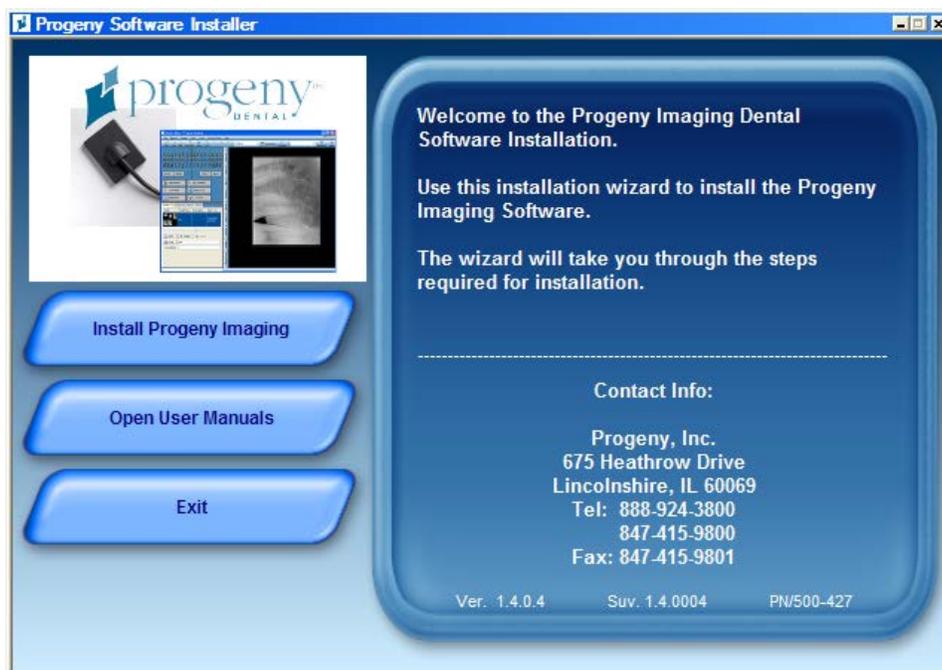


Progeny Imaging



User's Manual

V. 1.4.0.x and Higher

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Section 1: About This Manual

This section explains how to use this manual.

Text Conventions

The following typographic conventions are used in this manual.

Type of Information	Convention	Example
Menu selection	Bold font, menus in path connected by '>'	Select Tools > User Management
User interface objects and controls	Bold font	Click Next
Program information and information typed by the user	Fixed-width font	Change directories to C: / pr ogr am_f i l es/ Pr ogenyDent al
User-specific information typed by the user	Fixed-width font with italics and '< >'	Type C: / pr ogr am_f i l es/ <user_database>, substituting the name of your database for <user_dat abase>

Section 2: Overview

This section introduces Progeny Imaging.

Progeny Imaging Features and Functions

Progeny Imaging acquires, displays, and stores digital dental X-rays and intraoral video images. Progeny Imaging stores digital sensor images in DICOM format (Digital Imaging and Communications in Medicine). The DICOM format assures that each image contains patient identification and acquisition information.

You can use Progeny Imaging to:

- Create login IDs for users of Progeny Imaging
- Manage patient records
- Acquire, manipulate, and communicate images

This manual is designed to guide you through image acquisition using Progeny Imaging. Our software is specifically designed to provide easy access to digital image acquisition, simplified storage and image recall, as well as many tools useful for image evaluation.

For information on installing Progeny Imaging, refer to the *Progeny Imaging Installation Guide*.

Getting Assistance

In the event that you require assistance outside the scope of this manual, please contact your local dealer representative from whom you purchased your Progeny products. You may also contact Progeny Technical Service at 847-415-9800 Ext. 2 or Toll Free (U.S. and Canada) at 888-924-3800 Ext. 2.

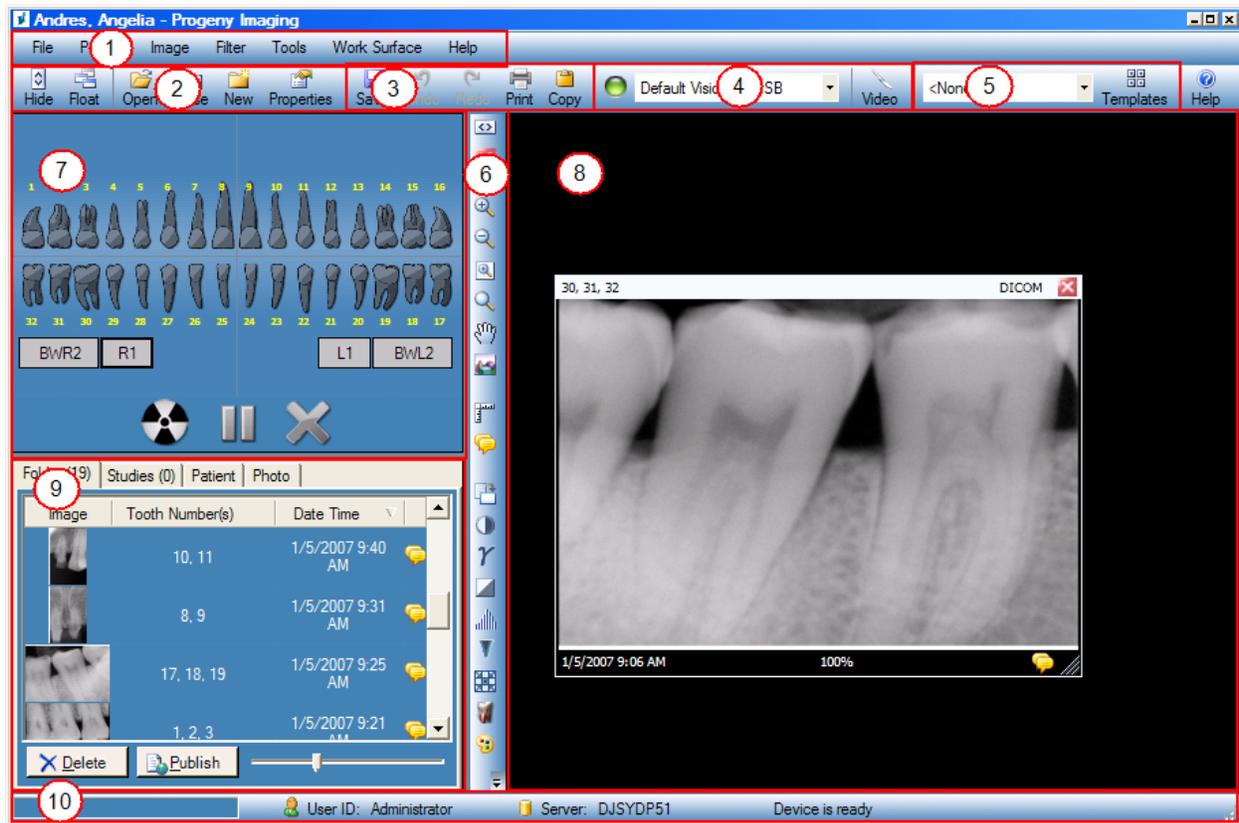
To facilitate your service call, the following information should be ready and available:

- Your computer operating system (Vista, XP, Mac OS)
- Version of Progeny Imaging software
- Serial number of your VisionDX system and sensor
- Type of Progeny Imaging installation (standalone, peer-to-peer network, client-server network)

When you call, please make sure that your Progeny Imaging software is open and running and your VisionDX sensor is connected.

Progeny Imaging Screen Layout

Progeny Imaging's screen layout is easy to learn and use.



(1) Main Menu Bar

The Main Menu bar contains menus of commands to perform most Progeny Imaging functions.

For more information, see Main Menu Bar on page 63.

(2)-(6) Toolbars

Toolbars are groups of icons to select frequently performed actions. Progeny Imaging contains the following toolbars:

Toolbars

Toolbar	Description
(2) Patient Controls	The Patient Controls toolbar allows you to work with patient records. <i>For more information, see Patient Controls Toolbar on page 76.</i>
(3) Image Operations	The Image Operations toolbar allows you to perform basic operations on images. <i>For more information, see Image Operations Toolbar on page 63.</i>
(4) Device Controls	The Device Controls Toolbar allows you to select and configure image acquisition modules. <i>For more information, see Device Controls Toolbar on page 48.</i>
(5) Template Controls	The Template Controls toolbar allows you to select a template and open the Template Manager. <i>For more information, see Template Controls Toolbar on page 84.</i>
(6) Filter	The Filter Toolbar has controls to change or manipulate the way an image is displayed. <i>For more information, see Filter Toolbar on page 52.</i>
(6) Annotate and Measure	Part of the Filter Toolbar, the Annotate and Measure Toolbar contains the tools to highlight or mark up an image. <i>For more information, see Annotate and Measure Toolbar on page 43.</i>

(7) Tooth Panel

The Tooth Panel allows you to select sequences of teeth and to acquire images.

Note: *To activate and use the Tooth Panel, a patient record must be open and an image acquisition module must be selected and active.*

For more information, see Tooth Panel on page 89.

(8) Work Surface

The Work Surface is where you display, filter, and annotate images that are part of a patient record.

For more information, see Work Surface on page 98.

(9) Image Container

The Image Container contains thumbnail images and information that are part of a patient record.

For more information, see Image Container on page 56.

(10) Progress and Status Bar

Information at the bottom of the Progeny Imaging screen gives you information on the progress of image acquisition, image acquisition module readiness, and current user and server.

QuickStart Steps

With Progeny Imaging, you can acquire images in a few easy steps. To use these QuickStart Steps, Progeny Imaging and an image acquisition module must be installed on your system. For installation instructions, refer to the *Progeny Imaging Installation Guide*.

1. Open Progeny Imaging

Double-click the **Progeny Imaging icon** on your desktop or select Progeny Imaging from your Windows Start menu.

2. Log into Progeny Imaging

If you are logging in for the first time, enter **Administrator** as the User ID. You will not need a password.

3. Open a Patient Record

Click **Open** to choose an existing patient file, or click **New** to create a new patient record.

To Open an Existing Patient Record

- a. Select **Patient > Open**, type **ALT + O**, or click the **Open** icon.
- b. In the **Select Patient** screen, select a patient. To search for a patient, enter all or part of the patient's last name in the **Last Name Filter** field.
- c. Click **Open**, or double-click in the left margin by the patient's name.

To Create a New Patient Record

- a. Select **Patient > New**, type **ALT + N**, or click the **New** icon.
- b. In the **Patient Properties** screen, enter patient information. Fields marked with a '*' are required.
- c. Click **Apply** to save your changes and continue working in the Patient Properties screen, or click **OK** to save your changes and close the screen.

4. Acquire Images

Progeny Imaging allows you to acquire images of sequences of teeth. The sequence defines the teeth that will be imaged and the order in which the images will be acquired. In the Tooth Panel, you can use the preset sequences or create sequences by selecting individual teeth.

Before Acquiring X-ray Image Sequences

- Open a patient record. The Tooth Panel does not function until a patient record is open.
- Display the Tooth Panel. If the Tooth Panel is not displayed, click the Hide icon, select File > Toggle Tooth Panel, or ALT + 1. The Patient Panel must be displayed in order to display the Tooth Panel.
- Verify that the image acquisition module you want to use is installed and ready. Select the device, for example, Default VisionDX, from the Device Control drop-down list. The device indicator should be green, and a "Device Ready" message should appear in the Progeny Imaging status bar.

To Image a Sequence of Teeth

- a. In the Tooth Panel, select one or more teeth to image, or click **BWR2, R1, BWL2, or L1** to select the sequence to image. The teeth that are included in the selected sequence change to orange to indicate that they are now part of a sequence. A small number will appear on the tooth showing the sequence that it is part of.
 - To include contiguous teeth in a single sequence, drag the cursor over the teeth. To create a separate sequence for each tooth, click on the tooth.
 - To select more teeth, repeat step a.
 - To remove all sequences, click the **Remove all sequences** button.
- b. Select the appropriate exposure on the X-ray source and prepare the X-ray source to produce the selected X-ray exposure.
- c. Click the **Acquire** button. The teeth in the first sequence will flash to indicate that Progeny Imaging is ready to accept an image from the X-ray sensor. The Acquire button changes to a Cancel button. At any time during acquisition, click Cancel to stop the acquisition.

CAUTION!

Before clicking Cancel to stop the acquisition, ensure that the patient will not be unnecessarily exposed to X-ray radiation.

- e. Verify that the VisionDX is ready to accept an X-ray exposure.
- f. Insert the X-ray sensor into a protective sheath and position the X-ray sensor in the patient's mouth.
- g. Align the X-ray source with the X-ray sensor as appropriate for the desired radiographic technique.

- h. Check again that Progeny Imaging, the X-ray sensor and the X-ray source are ready for an X-ray exposure.

CAUTION!

The X-ray sensor is active and waiting for X-Ray exposure for a limited time. At the end of the time period, the sensor times out, requiring you to start the procedure again. You should always verify that Progeny Imaging and the X-ray sensor are ready before exposing the patient to X-ray radiation. If you need more time, change the sensor timeout in the VisionDX Configuration screen.

- i. Activate the X-ray source to expose the sensor.

During acquisition, the teeth in the first sequence flash to indicate that the image transfer is in progress. When the acquisition is complete, the teeth change shade to green, the image is automatically saved, and appears in the work surface and in the Folder tab of the Image Container.

- j. If you selected more than one sequence for acquisition, Progeny Imaging will automatically begin to acquire the next sequence. Repeat steps c to j.

To Pause Acquisition Between Sequences

- Click the **Pause** button during the first acquisition before the second acquisition begins.
- To continue acquiring the next sequence, click the **Resume** button.

5. Review Previously Taken Images

- a. Open a patient record containing images.
- b. Select the image to display.
- c. Drag the image to the Work Surface.

Frequently Asked Questions

Q: The Tooth Panel is not visible. How do I display it?

A: The Patient Panel must be displayed in order to view the Tooth Panel. If the Patient Panel is visible but the Tooth Panel is hidden, click **Hide** on the tool bar. The Tooth Panel will open. If the Patient Panel is not displayed, select **Patient > Show Panel**, then click Hide to open the Tooth Panel.

Q: The Tooth Panel is not responding when I try to select a tooth to image. What should I do?

A: A patient file must be open. Also, a sensor must be selected and ready, as shown by the green ready indicator.

Q: I got a gray scale image instead of an X-ray image. What happened?

A: Each digital sensor device is configured to allow a certain number of seconds between the time you click Acquire in Progeny Imaging and the time you activate the X-ray source. At the end of the timeout period, if no X-ray exposure has been made, the digital sensor generates a gray-scale image. Check your time out settings by selecting **Tools > Devices > Device Configuration**.

Q: The wrong tooth was selected when the image was acquired and now the tooth number is wrong in the image information. How do I correct it?

A: First, display the image with the incorrect tooth information in the workspace. Then select **Image > Correct Tooth Numbers**. The Correct Tooth Numbers screen will have a check mark beside the tooth number that was selected when the image was acquired. Remove the check mark and check the correct tooth number. Then click **OK**.

Q: I can rotate an image from the Filter tool bar, but how do I flip the image?

A: Use **Image > Flip Horizontal** and **Image > Flip Vertical** commands.

Q: I want to delete the annotation measurements from the image. How do I select them so I can delete them?

A: With the image in the workspace, select **Image > Annotate** to open the Annotate and Measure toolbar. Click the left mouse button on the annotation to select it. Then click the **Delete** key on your computer.

Section 3: Logging In

This section contains procedures for logging into Progeny Imaging.

Logging in as a User

Every time Progeny Imaging is launched, the Login window appears. You must log in to use Progeny Imaging.

Before Logging In

- Obtain a user ID from your system administrator. You may also be given a password.
- Ensure that you are logged onto your computer using an account that has Windows computer administrator privileges.

Note: Progeny Imaging requires that all users be logged into Windows as a computer administrator.

To Log In

1. On your computer's desktop, double-click the Progeny Imaging icon, or select Progeny Imaging from your Windows Start menu. You will see the Login screen.



2. In the Login screen, enter your user ID and password, if you have one. Remember that passwords are case sensitive.
3. Click **Login**.

Section 4: User and System Management

This section contains instructions for creating Progeny Imaging users and safeguarding patient records.

Entering Clinic Information

Use the Options screen Clinic Information tab to enter the name and other clinic information. You must set up this information in order for it to appear in the DICOM image information.

For more information, see Options Screen on page 69.

To Enter Clinic Information

1. Select **Tools > Options**. The Options screen will display.
2. Select the **Clinic Information** tab.
3. Enter information for your clinic.
4. Click **OK**.

Managing Users

Everyone who uses Progeny Imaging must log in. When Progeny Imaging is installed, only one user, the Administrator, can log in.

See "Logging in for the First Time" in the *Progeny Imaging Installation Guide*

In order to implement security for patient records, you must create additional users. First create an Application Administrator user. The Application Administrator can then create additional users. The three types of users are described below.

- Administrator -- Administrator is a special user that Progeny Imaging requires for Technical Support. The Administrator user can create and manage other users and is a primary dentist with access to all patient records.

Note: *Progeny Technical Support uses the Administrator user in the event that you require Technical Support. Do not change the login ID or set a password for the Administrator user.*

- Application Administrator -- Application Administrator users create and manage other users and are primary dentists with access to all patient records. You make a user an application administrator by checking the Administrator box in the User Manager screen.

- Ordinary Users -- Ordinary users are primary dentists who create and manage only their own patients' records. In the User Manager screen, leave the Administrator box unchecked to create an ordinary user.

Before Creating Users

To create a user, you must be logged in to Progeny Imaging as the Administrator or as an application administrator user.

For more information, see User Manager Screen on page 91.

To Create a User

1. Select **File > User Manager**, or **CTRL + U**.
2. In the User Manager screen, click **New**. A blank row is added to the User Manager screen.
3. In the new row, configure the following information for the user:
 - Type a **User ID**.
 - (Optional) Select the **Administrator** box to make the user an application administrator.
 - (Optional) Click the **Password** box to assign a password for the user. In the User Password screen, enter and re-enter the password. When creating a password, remember the following password rules:
 - Passwords must be at least 5 characters long
 - Passwords are case sensitive
 - (Optional) In the remaining fields, enter other information about the user.
4. Click **Close** to save the user information and close the User Manager screen.

Modifying User Information

To modify user information, you must be logged in to Progeny Imaging as an application administrator user.

To Modify User Information

1. Select **File > User Manager**, or **CTRL + U**.
2. In the User Manager screen, select the user whose information you want to change.
3. Change the user's information.
4. Click **Close** to save the user information and close the User Manager screen.

Deleting Users

Before Deleting Users

- If the user to be deleted has patients assigned to him or her, assign the patients to another user. *For more information, see Reassigning Patients on page 27.*
- To delete users, you must be logged in to Progeny Imaging as an application administrator user.

To Delete a User

1. Select **File > User Manager** , or **CTRL + U**.
2. In the User Manager screen, select the user to delete.
3. Click **Delete**.
4. Click **OK** to delete the user.

Backing up a Patient Database

Progeny Imaging stores patient data in a Microsoft SQL Server database on the computer where Progeny Imaging is installed or on another computer on the same network. Backing up the patient database regularly is important to ensure that patient data is not lost in case of computer failure. If you have more than one location where you see patients and you want to keep the Progeny Imaging database at all locations up-to-date for all patients, you can backup the patient database in one office and restore it in another office.

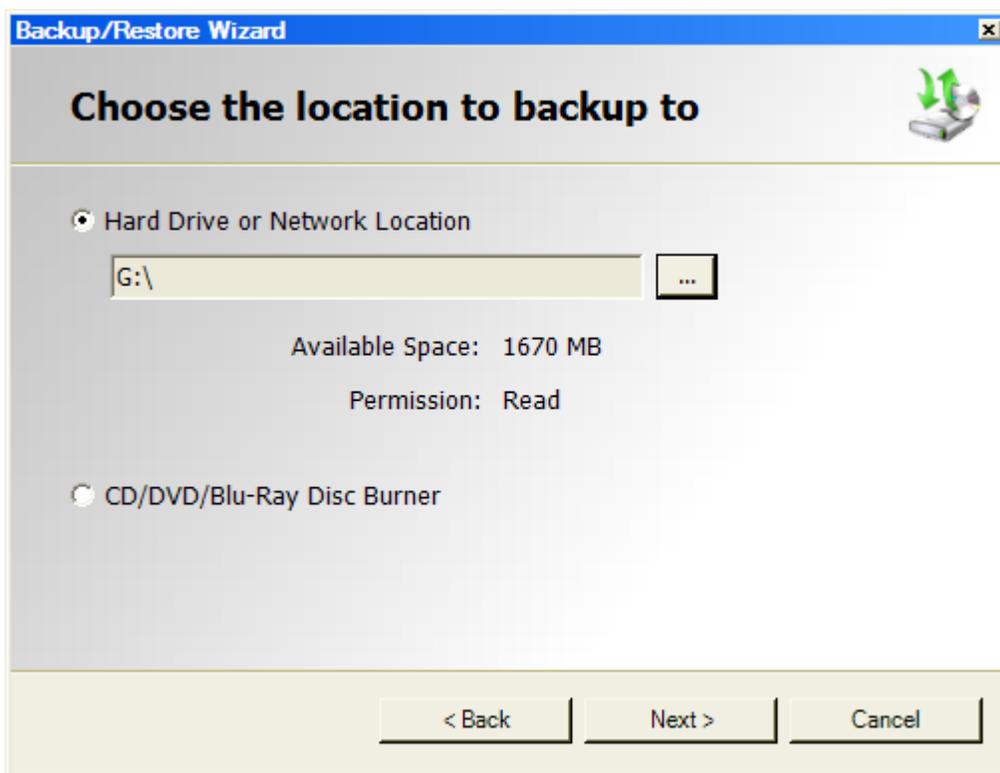
You use the Backup/Restore Wizard in Progeny Imaging to backup patient files and images to media, for example, a CD-ROM or DVD, or to a hard drive or network location. The Backup/Restore Wizard creates a Progeny Backup folder in the location you designate. The folder contains a sub-folder for each patient in the database. The patient folders contain the images and other files that are part of the patient's record.

For more information, see Backup/Restore Wizard on page 45.

For more information, see Restoring a Patient Database on page 21.

To Backup the Patient Database to a Hard Drive or Network Location

1. Select **File > Backup and Restore**.
2. In the Backup/Restore Wizard, click **Next**.
3. When asked to choose Backup or Restore, select **Backup**. Then click **Next**.



4. When asked to choose the location for the backup, select **Hard Drive or Network Location**.
5. Click the browse (...) button.
6. In the Browse for Folder dialog box, select the location for the backup. The Backup/Restore Wizard displays the space available for the backup. If the location does not have sufficient space to backup the entire patient database, the Backup/Restore Wizard will not allow you to begin the backup operation. **Note:** If you select a location that already has a Progeny Backup folder, the Backup/Restore Wizard asks you if you want to overwrite the existing backup. Click Yes to overwrite, or click No and select another location for the backup.
7. Click **Next**. The Backup/Restore Wizard displays a summary of the backup operation.
8. Click **Next** to begin the backup.
9. When the backup is completed, click **Finish**.

To Backup the Patient Database to a CD/DVD/Blu-Ray Disc Burner

1. Select **File > Backup and Restore**.
2. In the Backup/Restore Wizard, click **Next**.
3. When asked to choose Backup or Restore, select **Backup**. Then click **Next**.
4. When asked to choose the location for the backup, select **CD/DVD/Blu-Ray Disc Burner**.
5. Be sure that blank backup media is in the drive, then select the drive where the backup media is located. The Backup/Restore Wizard displays the selected media

and calculates how many discs will be needed to back up the entire patient database.

6. Click **Start Burning** to initiate the backup operation. If additional discs are needed, the Backup/Restore Wizard will prompt you to insert them.
7. When the backup is completed, click **Finish**.

Restoring a Patient Database

You can restore a patient database from a backup file that was created by Progeny Imaging. The backup file must exist on the computer with Progeny Imaging, on another computer on the same network, or on media, such as a CD-ROM or DVD.

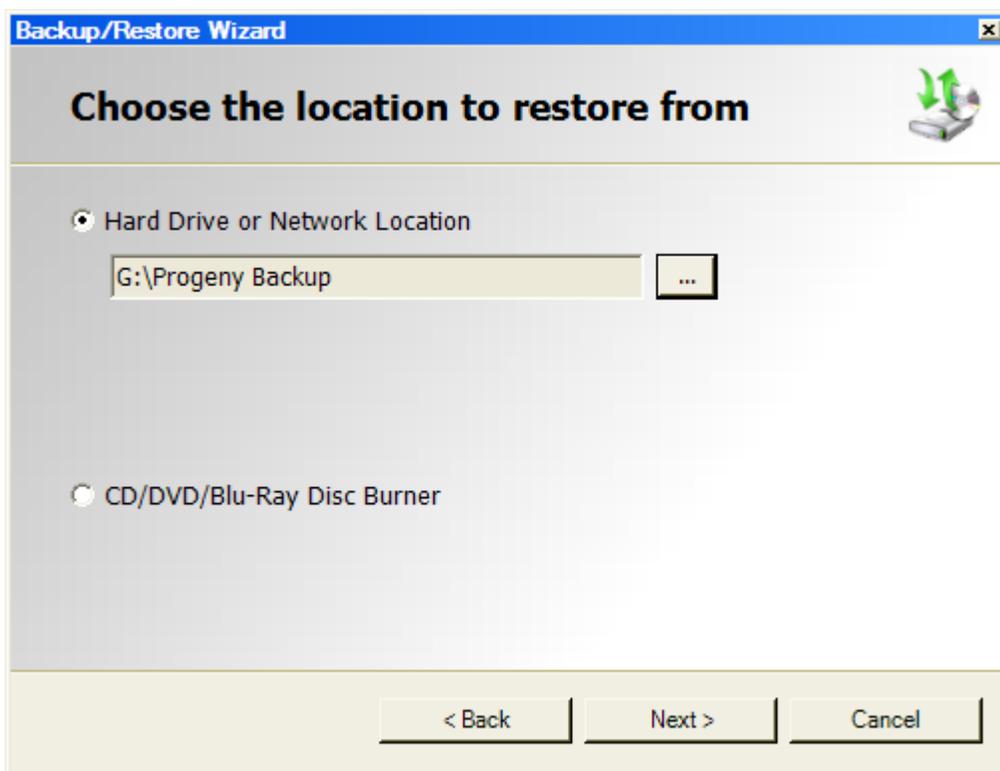
When you restore the patient database, the Backup/Restore Wizard checks to see if any patient records in the backup are duplicates of records in the patient database. If the patient record in the backup differs from the record in the database, the Backup/Restore Wizard automatically updates the record with the new information. This is useful if you see some patients in one office and wish to keep their records up-to-date in the Progeny Imaging patient database in another office.

For more information, see Backup/Restore Wizard on page 45.

For more information, see Backing up a Patient Database on page 19.

To Restore a Patient Database from a Hard Drive or Network Location

1. Select **File > Backup and Restore**.
2. In the Backup/Restore Wizard, click **Next**.
3. When asked to choose Backup or Restore, select **Restore**. Then click **Next**.



4. When asked to choose the location to restore from, select **Hard Drive or Network Location**.
5. Click the browse (...) button.
6. In the Browse for Folder dialog box, find and select the Progeny Backup folder.
7. Click **Next**. The Backup/Restore Wizard displays a summary of the Restore operation.
8. Click **Next** to begin the restore.
9. When the restore is completed, click **Finish**.

To Restore the Patient Database from a CD/DVD/Blu-Ray Disc Burner

1. Select **File > Backup and Restore**.
2. In the Backup/Restore Wizard, click **Next**.
3. When asked to choose Backup or Restore, select **Restore**. Then click **Next**.
4. When asked to choose the location to restore from, select **CD/DVD/Blu-Ray Disc Burner**.
5. Be sure that the media with the backup of the patient database is in the media drive. Click **Next**. The restore operations begins automatically. If additional discs were used to backup the patient database, the Backup/Restore Wizard will prompt you to insert them.
6. When the restore is completed, click **Finish**.

Removing the Login Screen

Every time you launch Progeny Imaging, the Login window appears. If you want to use Progeny Imaging without requiring users to log in, you must create a new desktop shortcut.

Note: When the Login screen is not used, the only Progeny Imaging user is Administrator and you cannot create other users. The Administrator user is a primary doctor with access to all patient records. For more information, see *Managing Users* on page 17.

To Remove the Login Screen

1. Select the Progeny Imaging executable file. By default, the file is located in:
C:\Program Files\Progeny\Progeny Imaging\ProgenyImaging.exe
2. Copy ProgenyImaging.exe.
3. On your computer's desktop, right click and select **Paste Shortcut** from the option menu.
4. With the shortcut selected, right click and select **Properties**.
5. In the Properties dialog box, select the **Shortcut** tab.
6. In the Target text field, place your cursor to the right of the last character.
7. Type a space, and then type `/n=final se`.
8. Click **Apply**.
9. Click **OK**.

Section 5: Working with Patient Records

This section presents procedures for creating and maintaining patient records in Progeny Imaging.

Creating a Patient Record

Progeny Imaging associates X-Ray images and other patient files with a patient record. You need a record for each patient for whom you want to acquire images.

Before Creating a Patient Record

- You must be logged into Progeny Imaging to create a patient record.
- When you create a patient record, you must assign the patient a primary dentist. The person who will be the primary dentist must already be set up as a user of Progeny Imaging.
 - *For more information, see Managing Users on page 17.*
- If you want to include the patient's picture in their record, place a JPEG image file of the patient in a directory on your computer or on a computer that you can reach from Progeny Imaging.

To Create a Patient Record

1. Select **Patient > New** or click the **New** icon or **ALT + N**.
2. In the Patient Properties screen, enter patient information. Fields marked with an asterisk '*' are required.
3. (Optional) Click **Browse** to locate and include a picture of the patient. Pictures must be JPEG image files.
4. Click **Apply** to save your changes and continue working in the Patient Properties screen. Click **OK** to save your changes and close the screen.

For more information, see Patient Properties Screen on page 78.

Opening a Patient Record

Progeny Imaging requires that you open a patient record in order to acquire images and create studies.

Before Opening a Patient Record

The patient record must be created before you can open it.

To Open a Patient Record

1. Select **Patient > Open**, or **ALT + O**, or click the **Open** icon.
2. In the Select Patient screen, select a patient. To search for a patient by last name, enter all or part of the patient's last name in the Last Name Filter field.
3. Click **Open**, or double-click next to the left of the patient's information, to open the patient's record. When the record is open, you will see the patient's name at the top of the Progeny Imaging window and the patient's information will appear in the Image Container.

Note: If the Image Container is not displayed, select **Patient > Show Patient Panel**, or **ALT + 2**.

For more information, see *Select Patient Screen* on page 82.

Adding Files to a Patient Record

While most images in your patients' records will be X-rays, you can also add files created in other applications to patients' records. For example, if you find a Web page or a PDF that contains information related to a patient, you can store this information in the patient's record. Storing these files in a patient's record creates a copy of the file. When you open these files from the Image Container, the application associated with the file opens so that you can edit the copy of the file that Progeny Imaging stored in the patient's record.

Before Adding Files to a Patient's Record

- Files to be added to a patient's record must be located in a directory on your computer or on a computer that you can reach from Progeny Imaging.
- Files to be added must be Word (.doc) files, Acrobat (.pdf) files, Web (.htm or .html) files, Excel files (.xls), or text (.txt) files.
- The patient's record must be open.
- The application associated with the file must be located on your computer if you want to open and edit these files from the Image Container.

To Add Files to a Patient Record

1. Select **Image > Import**.
2. In the file selection box, navigate to the folder where the file is located.
3. Select the file.
4. Click **Open**. The file is added to the patient's record and an icon representing the file type and the name of the file appear in the Folder tab of the Image Container.

Modifying a Patient Record

Before Modifying a Patient Record

The patient record must be created before you can modify it.

To Modify a Patient Record

1. Select **Patient > Open**, or **ALT + O**.
2. In the Select Patient screen, highlight the patient record and click **Properties**. You can also open the patient's record, then select **Patient > Properties**, or **CTRL + ALT + P**, or click the **Properties** icon. You can also modify the patient record using the Patient tab in the Image Container.
3. In the Patient Properties screen, modify the patient's information.
4. Click **Apply** to save your changes and continue working in the Patient Properties screen. Click **OK** to save your changes and close the screen.

For more information, see Patient Properties Screen on page 78.

Moving Images to Another Patient Record

You can use the Move File to Patient screen in the event that you acquire an image, but need to store it in another patient record.

Before Moving an Image

- The patient record that contains the image to be moved must be open.
- The patient record to which the image will be moved must exist.

Moving an Image

1. Open the Move File to Patient screen by selecting **Image > Move to Patient**, or **ALT + M**.
2. In the Move File to Patient screen, select the patient whose record will contain the image.
3. In the Image Container Folder tab, select the image to move.
4. Drag the image from the Image Container Folder tab to the Drag here icon in the Move File to Patient screen.
5. When Progeny Imaging asks you to confirm that you want to move the image to the selected patient's record, click **Yes**.

For more information, see Move File to Patient Screen on page 66.

Reassigning Patients

All patients are assigned to a primary dentist. From time to time, you may need to assign patients to a different dentist.

To Reassign Patients to a Different Dentist

1. Log in as the user whose patients you are reassigning.
2. Click **Open**.
3. Write down the names of the user's patients that appear in the Select Patient screen.
4. Select **File > Log Out**.
5. Log into Progeny Imaging as an application administrator user.
6. Select **Patient > Open**, or click the **Open** icon.
7. In the Select Patient screen, select a patient who is assigned to the original user.
8. Click **Properties**.
9. In the Patient Properties screen, change the patient's primary dentist to a dentist other than the original user.
10. Click **Apply** to save your changes and continue working in the Patient Properties screen.
11. When you have reassigned all the patients, click **OK**.

Deleting Patient Records

Patient records contain patient images and any additional files that may have been added for the patient. Deleting a patient's record removes all images and files associated with the patient.

CAUTION!

To preserve patient data, be sure to backup the patient database before deleting patients.

To Delete a Patient Record

1. Open the record of the patient you are deleting. *For more information, see Opening a Patient Record on page 24.*
2. Select **Patient > Delete Patient**. Progeny Imaging will ask you to confirm your decision to delete the patient.
3. Click **OK**.

Section 6: Acquiring Images

This section presents procedures for acquiring images.

Acquiring X-ray Image Sequences

Progeny Imaging allows you to acquire images of sequences of teeth. The sequence defines the teeth that will be imaged and the order in which the images will be acquired. In the Tooth Panel, you can use the preset sequences or create sequences by selecting individual teeth. To streamline image acquisition, you can use the Template Manager to save frequently used sequences as templates.

For more information, see Streamlining Image Acquisition with Templates on page 30.

Before Acquiring X-ray Image Sequences

- Open a patient record. The Tooth Panel does not function until a patient record is open.
- Display the Tooth Panel. If the Tooth Panel is not displayed, click the Hide icon, select File > Toggle Tooth Panel, or ALT + 1. The Patient Panel must be displayed in order to display the Tooth Panel.
- Verify that the image acquisition module you want to use is installed and ready. Select the device, for example, Default VisionDX, from the Device Control drop-down list. The device indicator should be green, and a "Device Ready" message should appear in the Progeny Imaging status bar.

For more information, see Tooth Panel on page 89.

To Image a Sequence of Teeth

1. In the Tooth Panel, select one or more teeth to image, or click **BWR2**, **R1**, **BWL2**, or **L1** to select the sequence to image. The teeth that are included in the selected sequence will turn orange to indicate that they are now part of a sequence. A small number will appear on the tooth showing the sequence that it is part of.
 - To include contiguous teeth in a single sequence, drag the cursor over the teeth. To create a separate sequence for each tooth, click on the tooth.
 - To select more teeth, repeat step 1.
 - To remove all sequences, click the **Remove All Sequences** button.
2. Select the appropriate exposure on the X-ray source and prepare the X-ray source to produce the selected X-ray exposure.
3. Click the **Acquire** button. The teeth in the first sequence will flash to indicate that Progeny Imaging is ready to accept an image from the X-ray sensor. The Acquire button changes to a Cancel button. At any time during acquisition, click Cancel to stop the acquisition.

CAUTION!

Before clicking Cancel to stop the acquisition, ensure that the patient will not be unnecessarily exposed to X-ray radiation.

4. Verify that the VisionDX is ready to accept an X-ray exposure.
5. Insert the X-ray sensor into a protective sheath and position the X-ray sensor in the patient's mouth.
6. Align the X-ray source with the X-ray sensor as appropriate for the desired radiographic technique.
7. Check again that Progeny Imaging, the X-ray sensor and the X-ray source are ready for an X-ray exposure.

CAUTION!

The X-ray sensor is active and waiting for X-Ray exposure for a limited time. At the end of the time period, the sensor times out, requiring you to start the procedure again. You should always verify that Progeny Imaging and the X-ray sensor are ready before exposing the patient to X-ray radiation. If you need more time, change the sensor timeout in the VisionDX Configuration screen.

10. Activate the X-ray source to expose the sensor.

During acquisition, the teeth in the first sequence flash orange to indicate that the image transfer is in progress. When the acquisition is complete, the teeth change shade to green, the image is automatically saved, and appears in the work surface and in the Folder tab of the Image Container.

11. If you selected more than one sequence for acquisition, Progeny Imaging will automatically begin to acquire the next sequence. Repeat steps 3 to 10.
12. To pause acquisition between two sequences, click the **Pause** button during the first acquisition before the second acquisition begins. To continue acquiring the next sequence, click the **Resume** button.
13. Record the X-ray exposure parameters or other information related to the acquired image as an image note. To create a note, click the yellow note icon in the bottom right corner of the image. Click **Save** to save the added text with the image. If the note icon is not visible, select **Work Surface > Expanded View**.

Streamlining Image Acquisition with Templates

Templates are pre-defined groupings of image acquisition sequences that you can use to streamline image acquisition. When you select a template, the template is displayed in the design surface and the sequences are added in the Tooth Panel. When you acquire images using the template, Progeny Imaging creates a two-image study, with the images displayed on the design surface in the order in which the sequences appeared in the template.

Progeny Imaging is delivered with several templates. In addition, you can create and modify templates. Templates can also be imported and exported for use in Progeny Imaging on other computers.

Before Acquiring Images Using a Template

- Open a patient record.
- Verify that the image acquisition module you want to use is installed and available.
- Verify that the template you want to use is available.
 - *For more information, see Creating and Modifying Image Acquisition Templates on page 32.*

To Acquire Images Using a Template

1. Select an X-ray sensor image acquisition module from the Device Controls drop-down list. The Connection Indicator will become green showing that the module is ready.
2. In the Template toolbar, select the template from the template drop-down list. The sequences in the template appear in the work surface. In the Tooth Panel, the teeth in the template sequences change to orange. A small number will appear on the tooth showing the sequence that it is part of.
3. Click **Acquire**. The teeth in the first sequence will flash to indicate that Progeny Imaging is ready to accept an image from the X-ray sensor. The Acquire button changes to a Cancel button. At any time during acquisition, click Cancel to stop the acquisition.

CAUTION!

Before clicking Cancel to stop the acquisition, ensure that the patient will not be unnecessarily exposed to X-ray radiation.

4. Visually verify that the VisionDX is ready to accept an X-ray exposure. The light on the front of the VisionDX control module should be yellow.
5. Insert the X-ray sensor into a protective sheath and position the X-ray sensor in the patient's mouth.
6. Select the appropriate exposure and prepare the X-ray source to produce the selected X-ray exposure.

7. Align the X-ray source with the X-ray sensor as appropriate for the desired radiographic technique.
8. Check again that Progeny Imaging, the X-ray sensor and the X-ray source are ready for an X-ray exposure.

CAUTION!

The X-ray sensor is active and waiting for X-Ray exposure for a limited time. At the end of the time period, the sensor times out, requiring you to start the procedure again. You should always verify that Progeny Imaging and the X-ray sensor are ready before exposing the patient to X-ray radiation. If you need more time, change the sensor timeout by in the VisionDX Configuration screen.

9. Activate the X-ray source to expose the sensor.

During acquisition, the teeth in the first sequence flash orange to indicate that the image transfer is in progress. When the acquisition is complete, the teeth change shade to green, the image is automatically saved, and appears in the work surface, replacing the template sequence, and in the Folder tab of the Image Container.

10. If the template contains more than one sequence, Progeny Imaging will automatically begin to acquire the next sequence. Repeat steps 4 to 9.
11. To pause acquisition between two sequences, click **Pause** during the first acquisition before the second acquisition begins. To continue acquiring the next sequence, click **Resume**.

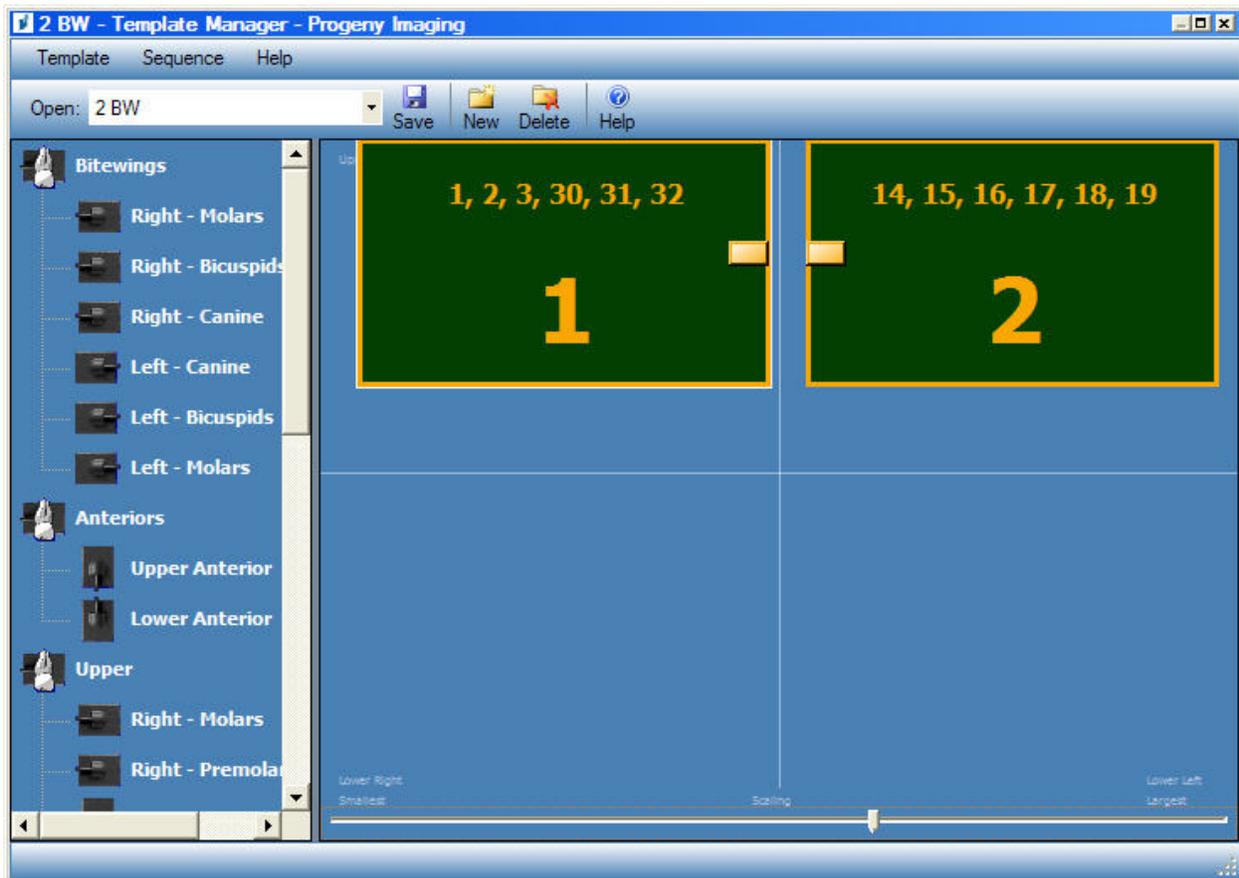
When all images for the template have been acquired, the images appear in the Image Container Folder tab, and a study, which includes all the images specified by the template, appears in the Image Container Studies tab.

12. Progeny Imaging will ask you if you wish to close the template. Closing the template removes the sequences from the Tooth Panel. Click Yes to close the template or No to leave the sequences selected.
13. Record the X-ray exposure parameters or other information related to the acquired image as an image note. To create a note, click the yellow note icon in the bottom right corner of the image. Click **Save** to save the added text with the image. If the note icon is not visible, select **Work Surface > Expanded View**.
14. If you are satisfied with the images, click Save in the Image Container Studies tab to save the study. You can enter a name for the study in the text field next to the Save button.

Creating and Modifying Image Acquisition Templates

Templates are pre-defined groupings of image acquisition sequences that you can use to streamline image acquisition. You use the Template Manager to create, modify, and delete templates. On the left side of the Template Manager are sequences of teeth to include in the template. On the right side of the Template Manager is the design surface where you assemble sequences for the template. The design surface is oriented from the patient's point of view.

For more information, see Streamlining Image Acquisition with Templates on page 30.



To Create a Template

1. Select **Tools > Templates**, or click the **Template** icon in the Template toolbar.
2. In the Template Manager, select **Template > New**, or click **New**.
3. In the New Template screen, enter a name for the template and click **OK**. The template name appears as the open template.
4. Drag sequences of teeth to the design surface, positioning the sequences in the order in which they will be acquired.
 - To remove a sequence from the design surface, select the sequence, then select **Sequence > Remove**. To remove all sequences, select **Template > Remove All Sequences**.
5. Select **Template > Save**, or click **Save**.
6. To close the Template Manager, select **Template > Exit**.

To Modify a Template

1. Select **Tools > Templates**, or click the **Template** icon.
2. In the Template Manager, use the drop-down list to select the template to modify.
3. In the design surface, select a sequence. Then click the right mouse button to display a menu of actions that you can perform on the sequence.
4. Select an action to perform on the sequence. You can perform the following actions on sequences in a template:
 - **Make First in Sequence**: Reorders the sequences in the template so that the selected sequence will be acquired first
 - **Make Last in Sequence**: Reorders the sequences in the template so that the selected sequence will be acquired last
 - **Move Up in Sequence**: Reorders the sequences in the template so that the selected sequence will be acquired before the immediately preceding sequence
 - **Move Down in Sequence**: Reorders the sequences in the template so that the selected sequence will be acquired after the immediately following sequence
 - **Background Color**: Displays a color palette from which you select the color of the background for the template
 - **Remove**: Removes the selected sequence from the template
5. Select **Template > Save**, or click **Save**.
6. To close the Template Manager, select **Template > Exit**.

Acquiring Images Using a TWAIN-compliant Device

TWAIN is a cross-platform interface for acquiring images. The TWAIN-compliant device must be on the office network. TWAIN-compliant devices include digital intraoral X-Ray sensor systems, TWAIN-compliant intraoral video cameras, and certain scanners. The TWAIN-compliant device driver must be present on your computer before you can acquire images in Progeny Imaging using the TWAIN-compliant device. For information on the TWAIN-compliant device, refer to the device manufacturer's installation information.

Images that you acquire using a TWAIN-compliant device are displayed in Progeny Imaging as DICOM images. You can then annotate the images and save them to the patient's record.

Before Acquiring Images Using a TWAIN-compliant Device

- Open a patient record.
- Verify that the TWAIN-compliant device is available on the office network.

To Acquire Images Using a TWAIN-compliant Device

1. In the Device Controls drop-down list, select **TWAIN Device**.
2. In the Tooth Panel, select one or more teeth to image, or click **BWR2, R1, BWL2, or L1** to select the sequence to image. The teeth that are included in the selected sequence will change to orange to indicate that they are now part of a sequence. A small number will appear on the tooth showing the sequence that it is part of.
 - To include contiguous teeth in a single sequence, drag the cursor over the teeth. To create a separate sequence for each tooth, click on the tooth.
 - To select more than one sequence, repeat step 2.
 - To remove all sequences, click the **Remove All Sequences** button.
3. Click the **Acquire** button. The Select Source screen will appear, and the teeth in the first sequence will begin to flash.
4. In the Select Source screen, highlight the TWAIN-compliant device that you want to use as the image source.
5. Click **Select**. The image acquisition window of the source device that you selected will open. You will now be using the source device and the features that it provides to acquire the image.

For more information, see Select Source Screen on page 84.

Section 7: Working with Images

This section presents procedures for displaying and annotating images.

Displaying Images

You can display previously acquired images in the Work Surface.

For more information, see Work Surface on page 98.

Before Displaying Images

- Open a patient record that contains images.
- Display the Patient Panel. If the Patient Panel is not displayed, select **Patient > Show Panel**.

To Load a Previously Saved Image

1. In the Image Container, select the **Folder** tab.
2. Select the image to display. Use the horizontal slider to adjust the view of the Image Container to help you find the image.
3. Select the image and drag it to the Work Surface.

Annotating Images

Annotations are lines, measurements, and text that you add to images. When you annotate an image, Progeny Imaging stores the annotations in separate files so that the original image remains intact. You can apply several annotations simultaneously to the image or you can clone the image and annotate each copy separately.

CAUTION!

The accuracy of measurements made with Progeny Imaging virtual measurement tools is not guaranteed and depends upon accurate calibration of the tool object.

For more information, see Annotate and Measure Toolbar on page 43.

To Annotate an Image

1. Display an image or study in the work surface.
2. Select the image.
3. In the Filter toolbar, click the **Annotate** icon, or **ALT + A**, or select **Image > Annotate**.
4. In the Annotate and Measure toolbar, you can:
 - Select an existing annotation, use the Select tool.

- Add a virtual measurement tool, such as a ruler, tape, or protractor, by selecting the Ruler, Distance, or Angle tool. Then click the image where you want to begin the measurement. Hold the left mouse button down and drag the tool to complete the measurement.

CAUTION!

The accuracy of measurements made with Progeny Imaging virtual measurement tools is not guaranteed and depends upon accurate calibration of the tool object.

- Add a marker by selecting the Marker tool. Then click the image where you want to place the marker.
 - Add text to the image by selecting the Text tool. Then, holding down the left mouse button, draw a text box on the image. Enter text in the text box. Text will be formatted according to settings in the Options screen Annotation Defaults tab.
 - Add an arrow, rectangle, or circle, by selecting the Arrow, Rectangle, or Circle tool. Then click the image where you want the line or shape to begin. Hold the left mouse button down and drag the line or shape to the desired size.
5. Click **Save** to save the image with the annotation.

To Modify Annotations in an Image

1. Display an image containing annotations in the work surface.
2. Place your cursor over the image and click the right mouse button. A pop-up menu appears with options for modifying annotations and filters.
3. Select the Annotations option to display a list of annotations in the image.
4. Select the annotation that you want to modify. The Annotation Properties box for that annotation appears.
5. Modify properties for the annotation.
6. Click **Save** to save the image with the changes that you made.

To Remove Annotations from an Image

1. Display an image containing annotations in the work surface.
2. Open the Annotate and Measure Toolbar by selecting **Image > Annotate**, or by clicking the **Annotate and Measure** icon on the Filter Toolbar.
3. In the Annotate and Measure Toolbar, click the **Select** icon.
4. In the image, click the annotation that you want to delete. A box will appear around the annotation.
5. Click the **Delete** key on your computer.
6. Click **Save** to save the image with the changes that you made.

Exporting Patient Images

Progeny Imaging allows you to export images in various formats.

- Exporting DICOM Images from a Patient Record
- Exporting JPEG Images from the Work Surface
- Exporting Various Image Formats from the Image Menu

Exporting DICOM Images from a Patient Record

You can use the Export Images and Viewer screen to copy images from a patient record to a folder on your computer or to an external hard drive or network location. Images are exported as DICOM image files. When you export patient images, Progeny Imaging creates a Progeny Imaging Export folder in the location you designate. The folder contains a folder with the image files that you exported and the ImageJ Viewer, a DICOM-compliant image viewer. Using ImageJ, the recipient of images from Progeny Imaging can view the DICOM image information. The names of the image files are the names of the files assigned by Progeny Imaging.

Before Exporting DICOM Images

The patient record that contains the images to be exported must be open.

To Export DICOM Images

1. Open the Export Images and Viewer screen by selecting **Patient > Export Patient Images**.
2. Select the images that you want to export. To select several images, hold down the CTRL key while selecting the images. To select all images, click **Select All**. The status bar of the Export Images and Image Viewer screen shows the amount of space required for the selected images.
3. Click **Export**.
4. In the Browse for Folder window, select the location for the exported images.
5. Click **OK**. The status bar of the **Export Images and Viewer** screen shows the progress of the export operation.
6. When the export is complete, click **Close**.

For more information, see Export Images and Viewer Screen on page 49.

Exporting JPEG Images from the Work Surface

You can export the images in a study as JPEG files to a location on your computer, on a removable media, or on the office network. The file names are the patient's name followed by the name of the image file that is assigned by Progeny Imaging.

Before Exporting Study Images

- The study must be open in the Work Surface.

To Export Study Images

1. From the Work Surface menu, select **Export All**. The Browse for Folder screen appears.
2. In the Browse for Folder screen, select the location to copy the files.
3. Click **OK**. The images will be copied to the location that you specified.

Exporting Various Image Formats from the Image Menu

You can export images from a patient record in various image formats, such as BMP or JPEG, to a location on your computer, on a removable media, or on the office network. You assign the file name and select the image format when you export the image.

Before Exporting Images from a Patient Record

- The Image must be open in the Work Surface.

To Export an Image from a Patient Record

1. From the Images menu, select **Export > Other Format**. The Save As screen will appear.
2. In the Save As screen, select the location to copy the image.
3. In the **Filename** field, enter the name to use when saving the image.
4. In the **Save as** type drop-down list, select the image format.
5. Click **OK**. The image will be saved in the location and with the name that you specified.

Correcting Tooth Numbering on Images

In the event that the wrong tooth was selected when the image was acquired, you can use the Correct Tooth Numbers screen to assign the correct tooth number to the image.

For more information, see Correct Tooth Numbers Screen on page 46.

1. Display the image with the incorrect tooth information in the workspace.
2. Select **Image > Correct Tooth Numbers**. The Correct Tooth Numbers screen will display with a check mark beside the tooth number that was selected when the image was acquired.
3. Remove the check mark and check the correct tooth number.
4. Click **OK**.

Deleting Images

Deleting images permanently removes the image and its associated files.

CAUTION!

Do not delete the image if regulations for your jurisdiction require you to save all X-ray exposures.

Before Deleting Images

- Display the image in the work surface.

To Delete Images

1. In the work surface, select the image.
2. Click **Delete** in the Folder tab of the Image Container.
3. If prompted, confirm that you want to delete the file.

Creating Studies

Studies are saved to the Study Manager located in the Image Container Studies tab. Images acquired using a template automatically appear in the Study Manager and can be saved as a study. In addition, you can save any image(s) that is displayed in the work surface as a study.

Progeny Imaging offers a large number of filters and annotation options to enhance the images in your study. When you annotate or filter an image, Progeny Imaging stores the annotations and filters in separate files so that the original image remains intact.

CAUTION!

The accuracy of measurements made with Progeny Imaging virtual measurement tools is not guaranteed and depends upon accurate calibration of the tool object.

For more information, see Image Container on page 57.

To Save a Study

1. In the work surface, display the image or images to be included in the study.
2. (Optional) Use filters or annotations to modify the image(s). When you annotate or filter an image, Progeny Imaging stores the annotations and filters in separate files so that the original image remains intact.
3. In the Image Container, select the **Studies** tab.
4. In the Studies tab, enter a name and description for the study in the text fields and click **Save**, or select **Work Surface > Save as Study**, or **ALT + S**.

To Load a Previously Saved Study

1. In the Image Container, select the **Studies** tab.
2. Select the study to open. Use the horizontal slider to adjust the view of the Image Container to help you find the study.
3. Click **Open**. The study images will appear in the work surface.

Using Filters on Images

Filters allow you to modify or add information to an image. When you use filters, Progeny Imaging stores the filter settings in separate files so that the original image remains intact. You can apply several filters simultaneously to the image or you can clone the image and apply filters individually to each copy of the image.

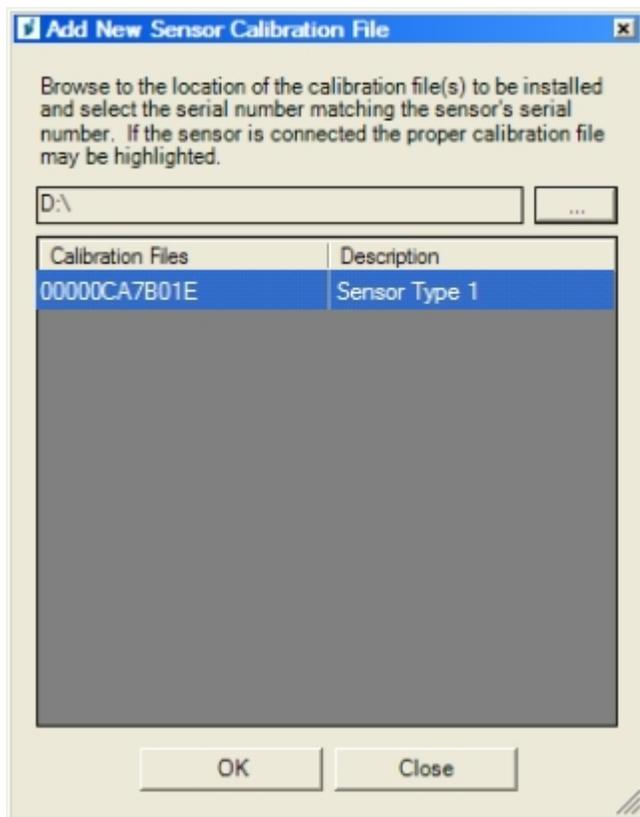
To Apply Filters to an Image

1. Display an image or study in the work surface.
2. Select the image.
3. In the Filter toolbar, click on one of the filter icons, or select the filter from the Filter menu.
 - *For more information, see Filter Toolbar on page 52.*
4. Adjust the filter controls. You will see a preview of your image with the filter applied.
5. Click **OK** to apply the filter and close the filter controls. Click **Cancel** to close the filter without applying it.
6. Click **Save** to save the filter defined for the image.

Section 8: Screen and Menu Reference

This section describes each menu, toolbar, and screen in the Progeny Imaging user interface. User interface elements are listed in alphabetical order.

Add New Sensor Calibration File Screen



The Add New Sensor Calibration File screen allows you to add VisionDX USB image acquisition device calibration files to the list of calibration files available in Progeny Imaging. Adding a calibration files means that the device's unique calibration file has been installed on the system where it will be used and that the device is now ready to acquire images.

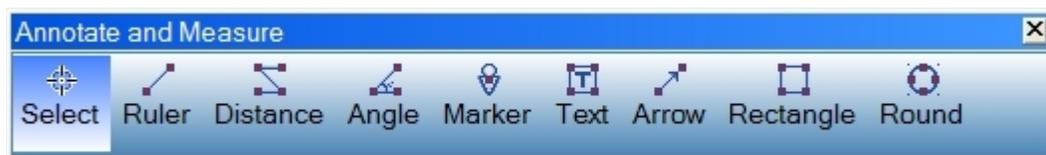
To open the Add New Sensor Calibration Files screen, click **Add Calibration** in the Manage VisionDX Sensor Calibration Files screen.

See "Installing VisionDX USB Modules" in the *Progeny Imaging Installation Guide*

Add Sensor Screen

Item	Description
Location field	Path to the sensor calibration files. Clicking the "..." button opens the Browse for Folders screen that you use to navigate to the location of the sensor calibration files.
Calibration Files	Serial number of the calibration file. Each sensor has a unique calibration file.
Description	Type of the sensor. Each sensor has factory-installed type (type 1 or type 2).

Annotate and Measure Toolbar



The Annotate and Measure Toolbar contains the tools to highlight or mark up an image.

Open the Annotate and Measure Toolbar by selecting **Image > Annotate**, or by clicking the **Annotate and Measure** icon on the Filter Toolbar.

CAUTION!

The accuracy of measurements made with Progeny Imaging virtual measurement tools is not guaranteed and depends upon accurate calibration of the tool object.

To calibrate measurement tools, such as the Ruler, place the tool in an image. Then right-click on the tool and display the Annotation Properties dialog box.

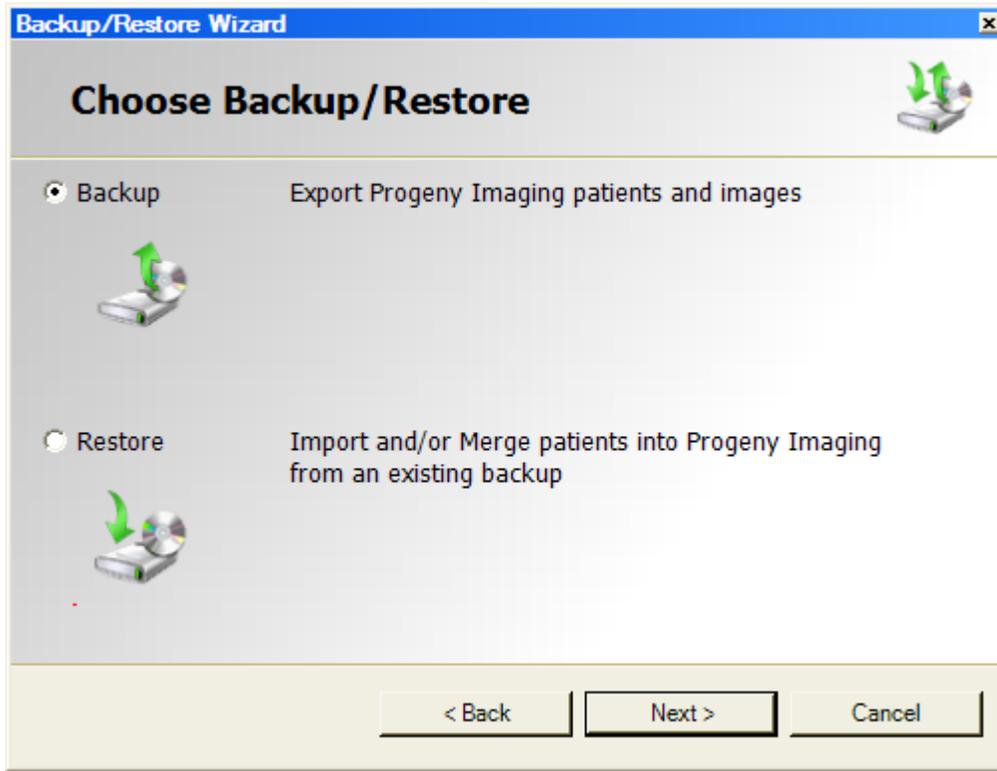
To view and modify the default properties of text and lines created with the Annotate and Measure toolbar, Select **Tools > Options** and then click **Annotation Defaults**.

For more information, see Annotating Images on page 35.

Annotate and Measure Toolbar

Item	Description
Select	Allows for easy selection of any annotation applied to an image. Click Select then click on the annotation you want to manipulate.
Ruler	Adds a virtual ruler to the image.
Distance	Adds a virtual tool that sums the total distance of all lines within the annotation.
Angle	Allows you to use a virtual protractor to mark up your image.
Marker	Marks a point on an image. Select Marker, then click on the image to insert the marker.
Text	Adds an editable text box to an image allowing you to make a note on the image. Select Text, then click and hold the left mouse button to draw the text box on the image.
Arrow	Adds a line with an arrowhead to an image. Select Arrow, then click and hold the left mouse button to draw the arrow on the image.
Rectangle	Adds a rectangular shape to an image. Select Rectangle, then click and hold the left mouse button draw the shape on the image.
Round	Adds a circular shape to an image. Select Round, then click and hold the left mouse button draw the shape on the image.

Backup/Restore Wizard



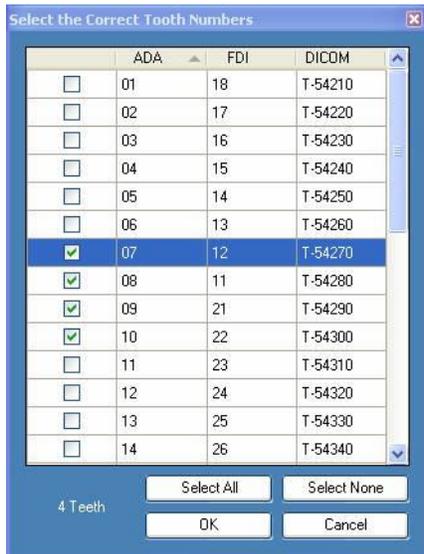
The Backup/Restore Wizard allows the administrator to backup and restore a patient database.

Open the Backup/Restore Wizard by selecting **File > Backup and Restore**. Then follow the instructions in the Backup/Restore Wizard screens.

For more information, see Backing up a Patient Database on page 19.

For more information, see Restoring a Patient Database on page 21.

Correct Tooth Numbers Screen

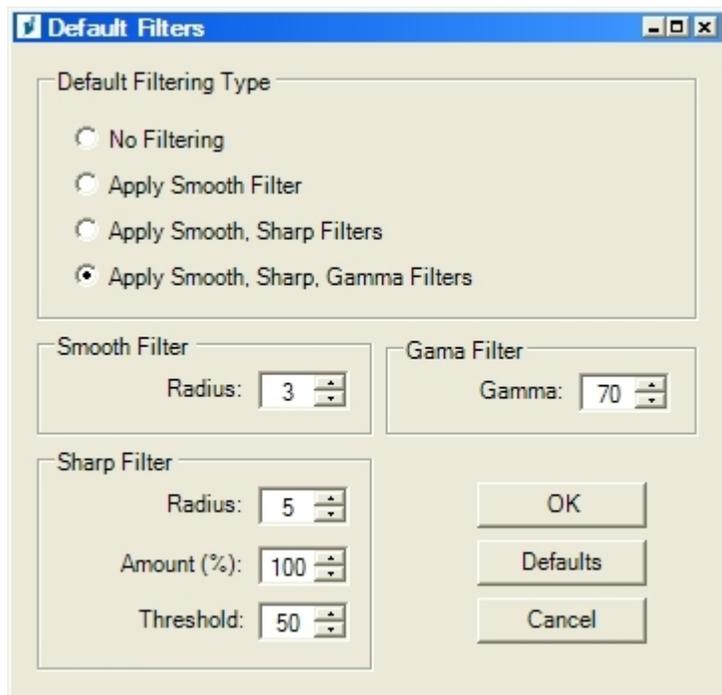


The Correct Tooth Numbers screen allows you to correct the teeth associated with an image's DICOM information. This screen is useful if you acquire an image for a tooth but had selected a different tooth in the Tooth Panel. Using the Correct Tooth Numbers screen, you can assign the correct tooth information to the image's DICOM information.

Open the Correct Tooth Numbers screen by selecting **Image > Correct Tooth Numbers**. An image must be displayed in the Work Surface. Click column header for ADA or FDI to sort the order of the teeth. Check the boxes for the correct tooth numbers, then click **OK**.

For more information, see Correcting Tooth Numbering on Images on page 39.

Default Filters Screen



The Default Filters screen allows you to select and configure default filters. When you select a default filter, Progeny Imaging will apply the filter to an image automatically after the image has been acquired. By default, no default filter is applied. Once a default filter is selected, all images that you acquire will have this filter applied until you remove or change the default filter option. Filters applied by default cannot be removed from images as can filters that are applied to images after acquisition.

Open the Default Filters screen from the VisionDX Configuration screen. Select **Tools > Devices > Device Configuration**. Then click **Default Filters**.

After selecting a default filter, you can use Progeny Imaging's default settings for the filter or configure your own. Click Default to reset filter settings to Progeny Imaging default settings.

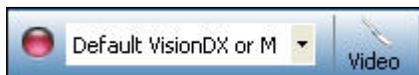
Default Filters

Item	Description
No Filtering	No default filter will be applied.
Apply Smooth Filter	The Median filter will be applied by default.

Item	Description
Apply Smooth, Sharp Filters	Median and Sharp filters will be applied by default.
Apply Smooth, Sharp, Gamma Filters	Median, Sharp, and Gamma filters will be applied by default.
Smooth Filter	Set the smooth filter radius.
Sharp Filter	Set the sharp filter radius, percentage, and threshold.
Gamma Filter	Set the gamma filter gamma.

For more information, see VisionDX Configuration Screen on page 94.

Device Controls Toolbar



The Device Controls Toolbar allows you to select and configure image acquisition modules.

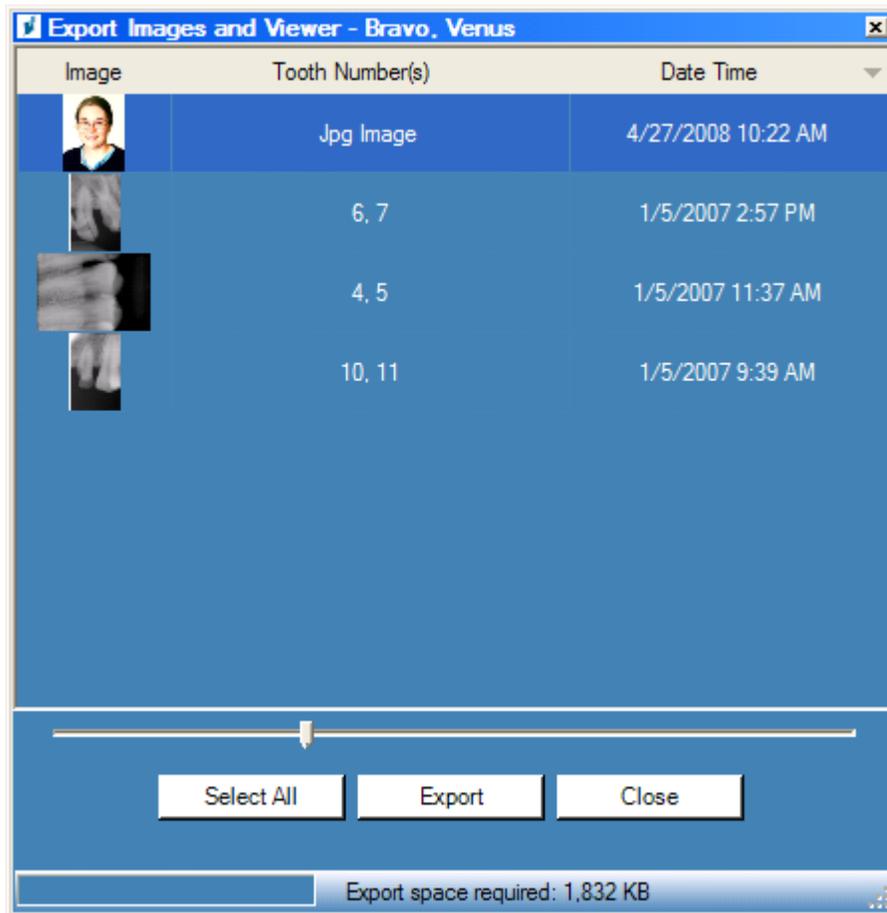
Device Controls Toolbar

Item	Description
Connection Indicator (Device Readiness Indicator)	Shows whether the selected module is ready for image acquisition. Green indicates that the module is ready; red indicates that the module is not ready. The Connection Indicator flickers as Progeny Imaging checks for the presence of the module.
Device List	Displays default and installed VisionDX, MPSe, and VisionDX USB modules. You can also select TWAIN Device to open the TWAIN Device Selection screen.
Video	Opens the Video screen. This control is available only when the Progeny Vivid USB Camera is installed.

For more information, see Video Screen on page 93.

For more information, see Select Source Screen on page 84.

Export Images and Viewer Screen



The Export Images and Viewer screen allows you to copy images from a patient record to a folder on your computer or to an external hard drive or network location. When you export images, a copy of the ImageJ viewer, a DICOM-compliant image viewer, is also written to the selected location. Using ImageJ, the recipient of images from Progeny Imaging can view the DICOM image information.

For more information, see Exporting Patient Images on page 37.

Open the Export Images and Viewer screen by selecting **Patient > Export Patient Images**.

Export Images and Viewer

Item	Description
Image	Thumbnail image of images available for export.
Tooth Number	Tooth number (for DICOM images) or file type for other images.
Date/Time	Date and time when the image was acquired.
Select All	Selects all the available images for export.
Export	Export the selected images to the selected location.
Close	Closes the Export Patient Images and Viewer screen.

File Menu

The File menu contains options for basic tasks in Progeny Imaging.

File Menu

Menu Option	Description
Toggle Tooth Panel	Hides and redisplay the Tooth Panel. The Patient Panel must be displayed in order to display the Tooth Panel.
User Manager	Displays the User Manager where you can add and delete users and modify user profiles. <i>For more information, see User Manager Screen on page 91.</i>
Backup and Restore	Displays the Backup and Restore screen where you backup the patient database. <i>For more information, see Backup/Restore Wizard on page 45.</i>
Log Out	Logs out the current user and redisplay the login screen.

Menu Option	Description
Exit	Closes the Progeny Imaging application.
Float	Displays the Tooth Panel as a self-standing window. When the Tooth Panel is floating, click the Float button or double-click its window borders to dock it.

Filter Menu

The Filter menu contains a subset of the image manipulation options that are found on the Filter toolbar. These options are applied to images displayed in the work surface.

Filter Menu

Menu Option	Description
Adjust	Displays a filter with controls to adjust the brightness, contrast or intensity of the selected image.
Edge	Displays a filter to mark the points in the image where the luminous intensity changes sharply.
Gamma	Displays a filter to make changes to the overall brightness (and color saturation) of an image as it is displayed on a monitor.
Invert	Reverses the hue, saturation, and brightness values of the content of the image.
Level	Uses histogram information to remove extraneous information from the image.
Sharpen	Displays a filter to enhance the sharpness and crispness of image details.
Smooth	Displays a filter to soften the focus of the image.

Menu Option	Description
Emboss	Displays a filter to add texture to an image using grayscale values.
Filter A, B, C, D	Apply user-configurable filters, A, B, C, and D. You configure these filters by selecting Tools > Options and clicking the ABCD Filters tab. Only one customized filter can be applied to an image.

For more information, see Filter Toolbar on page 52.

Filter Toolbar

The Filter Toolbar has controls to change or manipulate the way an image is displayed. You must display an image in the work surface to use these controls.

Filter Toolbar

Item	Icon	Description
Hide/Show Patient Panel		Hides and redisplay the Patient Panel.
Close Image		Closes the selected image in the work surface.
Zoom In		Enlarges the view of the image contents. Use Zoom Out to restore your view.
Zoom Out		Reduces the view of the image contents.
Zoom To		Enlarges a user selected area of the image. To define an enlarged area, click the Zoom To tool. Then click and drag the tool anywhere on the image to identify a specific area to zoom in on. Use Zoom Out to restore your view.

Item	Icon	Description
Magnifying Glass		Displays a virtual magnifying glass. Click the Magnifying Glass tool. Then click an area of the image that you want to magnify. Continue holding the mouse button down and dragging to magnify other areas of the image. Release the left mouse button to return to normal view. Set the level of magnification for the Magnifying Glass tool by selecting Tools > Options , then clicking the General tab.
Pan		On an image that is zoomed in, moves the image so that you can view different parts.
UnZoom All		Restores all enlarged areas to their original view.
Annotate & Measure		Displays the Annotate and Measure toolbar with controls to add virtual tools, markers, text, lines, and shapes to images.
Show/Hide Notes		Displays and hides a text area below an image where you can view, add, and modify notes on the image.
Rotate 90°		Changes the orientation of an image 90° in the clockwise direction. Clicking Rotate 90° again returns the image to its original orientation.
Adjust Brightness, Contrast, Intensity		Displays a filter with controls to adjust the brightness, contrast or intensity of the selected image.
Edge Detection		Displays a filter to mark the points in the image where the luminous intensity changes sharply.

Item	Icon	Description
Gamma		Displays a filter to make changes to the overall brightness (and color saturation) of an image as it is displayed on a monitor.
Invert		Reverses the hue, saturation, and brightness values of the content of the image.
Image Leveling		Uses histogram information to remove extraneous information from the image.
Sharpen		Displays a filter to enhance the sharpness and crispness of image details.
Smooth		Displays a filter to soften the focus of the image.
Emboss		Displays a filter to add texture to an image using grayscale values.
IsoDensity Colorization		Uses histogram information to change the saturation and hue so that you can highlight specific areas of interest in the image.
Customized Filters		Apply user-configurable filters, A, B, C, and D. You configure these filters by selecting Tools > Options and clicking the ABCD Filters tab.

Help Menu

The Help menu contains options for displaying Progeny Imaging user assistance and product information.

Help Menu

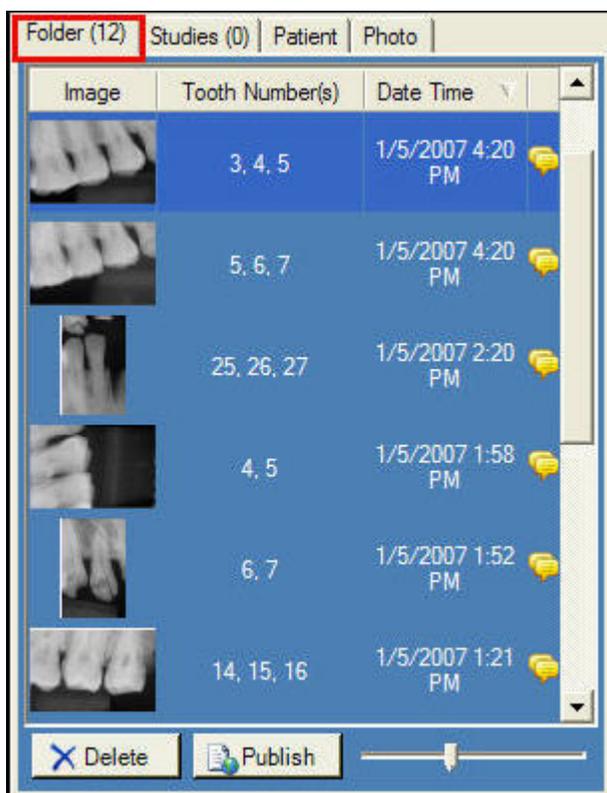
Item	Description
Contents (ALT + H)	Opens the help file with the contents pane selected.
Index	Opens the help file with the index pane selected.
About Progeny Imaging	Displays Progeny Imaging version information.
Check for Updates	Compares your version of Progeny Imaging with the latest version available on the Progeny Dental website. If a newer version is available, you can download it from the Progeny Dental website.

Image Container

The Image Container consists of four tabs with the information and images that are part of a patient record. You must open a patient record to view information in the Image Container.

For more information, see Opening a Patient Record on page 24.

Folder Tab



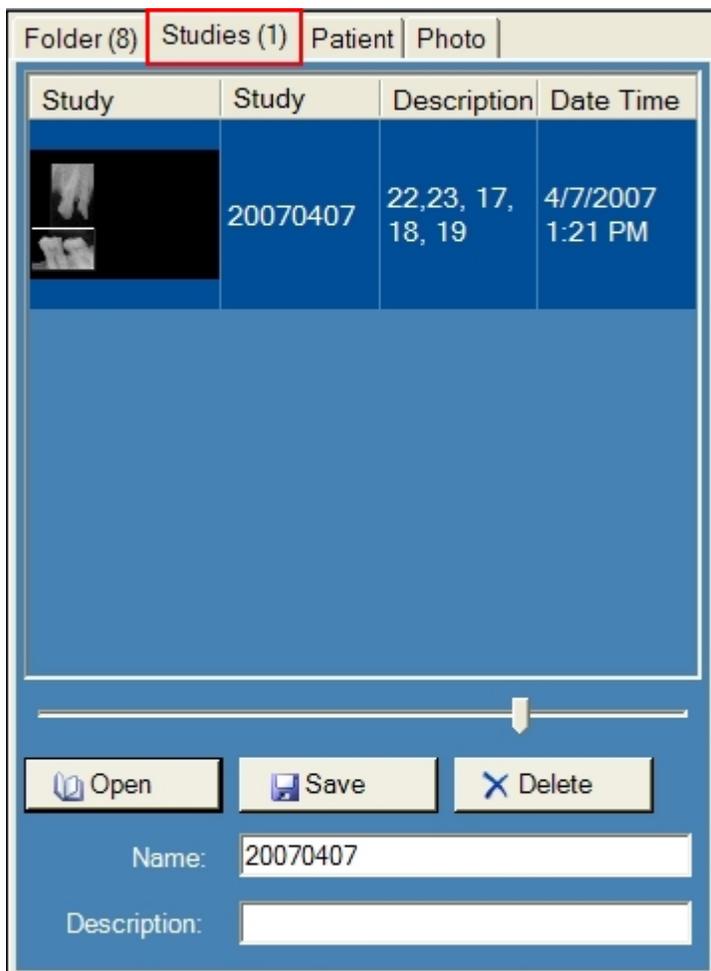
The Folder tab contains thumbnail images of X-rays and other files in the patient's record. The number on the tab is the number of items in the patient's record. Scroll down to see all items. The slider at the bottom of the Folder tab adjusts the view so that you can more easily find images. For X-ray images, the Folder tab shows the tooth or teeth in the image sequence, the date and time that the image was acquired, and an icon if the image contains notes. For other items, the Folder tab lists the file name and time of creation. Select and drag an image from the Folder tab to the work surface to view the image at actual size. To delete an image from the Folder tab, select the image and click Delete, or ALT + D.

If your Progeny Imaging system is configured to publish to a PACS server, you can select an image in the Image Container and click Publish. When you click Publish, Progeny Imaging uploads the image to the server. The status bar will display messages

as the publishing progresses. For more information about publishing to a PACS server, See "Configuring Progeny Imaging to Publish to a PACS Server" in the *Progeny Imaging Installation Guide*

For more information, see *Acquiring X-ray Image Sequences on page 28*.

Studies Tab



The Studies tab contains studies that have been saved in the patient's record. The number in the tab is the number of studies in the patient's record. Scroll down to see all items. The slider at the bottom of the Studies tab adjusts the view so that you can more easily find studies. The Studies tab shows a thumbnail image of the study and provides the name or number of the study, a description of the study, and the date on which the image in the study was created. Select a study and click Open to display it in the work surface. To save a study, display an image in the work surface, then click Save, or ALT + S. To delete a study from the Studies tab, select the study and click Delete, or ALT + D.

For more information, see *Creating Studies on page 40*.

Patient Tab

Folder (12)	Studies (0)	Patient	Photo
1 - Patient			
Last		Harris	
First		Alice	
Middle			
StartDate			
LastXRay			
BirthDate		6/20/2000	
Gender		F	
ID #		999-99-2513	
2 - Address			
Address1		9607 Phoenix Court	
Address2			
City		Popular City	
State		Popular State	
Zip		16336-3129	
Country		Popular Country	
3 - Notes			
Notes		The information used a	
4 - Contact Info			
Last			
Patients Last Name			

The Patient tab contains information from the patient's Patient Properties screen. To edit the information, select the row and type in the new information. Changes made to patient information in the Patient tab are automatically saved to the patient's record and displayed in the Patient Properties screen.

For more information, see Patient Properties Screen on page 78.

For more information, see Creating a Patient Record on page 24.

Photo Tab



The Image Container Photo tab displays the patient's picture that was included in the patient's Patient Properties screen.

For more information, see Creating a Patient Record on page 24.

Image Menu

The Image menu contains settings that allow you to work with an image that is displayed in the work surface. Select the image, and then select an option from the Image menu.

Image Menu

Menu Option	Description
Undo Filter (ALT + U)	Removes the last filter applied.
Redo Filter (ALT + R)	Reapplies the last filter removed.
Undo All Filters	Removes all filters. Clicking the '*' icon on the image also removes all filters.
Annotate (ALT + A)	Displays the Annotate and Measure toolbar with controls for annotating the image.
Correct Tooth Numbers	Opens the Select Correct Tooth Numbers screen so that you can change the tooth number stored in the image's DICOM information. <i>For more information, see Correct Tooth Numbers Screen on page 46.</i>
Notes	Displays and hides a text area below an image where you can view, add, and modify notes on the image. Clicking the Notes icon on the Filter toolbar or on the image also displays and hides notes.
Flip Vertical	Flips the selected image along the vertical axis.
Flip Horizontal	Flips the selected image along the horizontal axis.

Menu Option	Description
Rotate	Displays options for rotating the selected image 90 or 180 degrees to the right or left.
Full Screen (ALT + F)	Expands the display of the selected image to fill the computer monitor. Double-click on the image to return to the Progeny Imaging application.
Maximize	Expands the display of the selected image to fill the work surface. Double-click on the image to display it in Full Screen mode. Select Image > Restore Down to display the image again in its actual size.
Restore Down	Displays the current image in a window.
Import	Adds an image or other file to a patient folder.
Export	<p>Displays options for copying an image to a specified location on your computer or removable media. Export copies all supported image formats except DICOM images. To export DICOM images, use Patient > Export Patient Images.</p> <p><i>For more information, see Exporting Patient Images on page 37.</i></p>
Move to Patient (ALT + M)	Allows a user with administrative privileges to move a patient's image to another patient. The moved image appears in the target patient folder and the DICOM information associated with the image is updated to reflect the new owner of the image. You use Move to Patient the wrong patient folder was open during image acquisition.
Clone	Creates a copy of the selected image and places the copy on the work surface.

Menu Option	Description
Copy to Clipboard	Places a copy of the selected image on the Windows clipboard. You can then paste the image into another application such as Microsoft Word.
Expanded View (ALT + E)	Hides and displays a border on the image containing the name of the image file, date of acquisition, and other information.
Print (ALT + P)	Opens the Print Preview screen where you preview and print the selected image.
Show Image Information	Displays DICOM information for the selected image.
Close (ALT + C)	Removes the selected image from the work surface. The image is not deleted and can be reopened.

Image Operations Toolbar



The Image Operations toolbar allows you to perform basic operations on images.

Image Operations Toolbar

Item	Description
Save	Save the image to the patient's record.
Undo	Undo the last filter applied to the image.
Redo	Redo the last filter applied to the image.
Print	Opens the Print Preview window from where you can view and print the image.
Copy	Copy the image to the clipboard. The copied image can be pasted into another document.

Main Menu Bar



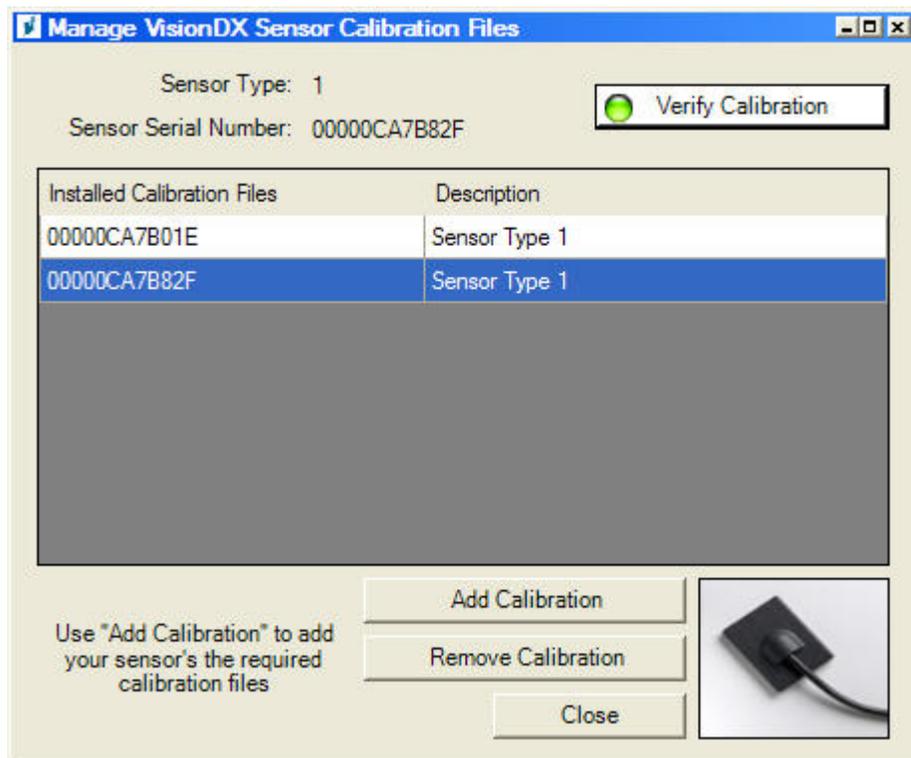
The Main Menu bar contains menus of the major functions provided by Progeny Imaging.

Main Menu Bar

Menu	Description
File	The File menu contains options for basic tasks in Progeny Imaging. <i>For more information, see File Menu on page 50.</i>

Menu	Description
Patient	The Patient menu contains options for working with patient records. <i>For more information, see Patient Menu on page 77.</i>
Image	The Image menu contains settings that allow you to work with an image that is displayed in the work surface. <i>For more information, see Image Menu on page 60.</i>
Filter	The Filter menu contains a subset of the image manipulation options that are found on the Filter toolbar. <i>For more information, see Filter Menu on page 51.</i>
Tools	The Tools menu contains settings that allow you to modify how Progeny Imaging looks and functions. <i>For more information, see Tools Menu on page 87.</i>
Work Surface	The Work Surface menu contains options for working with studies. <i>For more information, see Work Surface Menu on page 99.</i>
Help	The Help menu contains options for displaying Progeny Imaging user assistance and product information. <i>For more information, see Help Menu on page 55.</i>

Manage VisionDX Sensor Calibration Files Screen



The Manage VisionDX Sensor Calibration Files screen shows the serial numbers for sensors whose calibration files are already installed. If you are installing a sensor, the serial number for the sensor will appear at the top, but the serial number does not appear in the Serial Number list until you have installed the calibration files. The Manage VisionDX Sensor Calibration Files screen opens automatically when Progeny Imaging detects a new sensor. You can also open the Manage VisionDX Sensor Calibration Files screen by clicking **Calibration** in the VisionDX Configuration screen.

See "Installing VisionDX USB Modules" in the *Progeny Imaging Installation Guide*

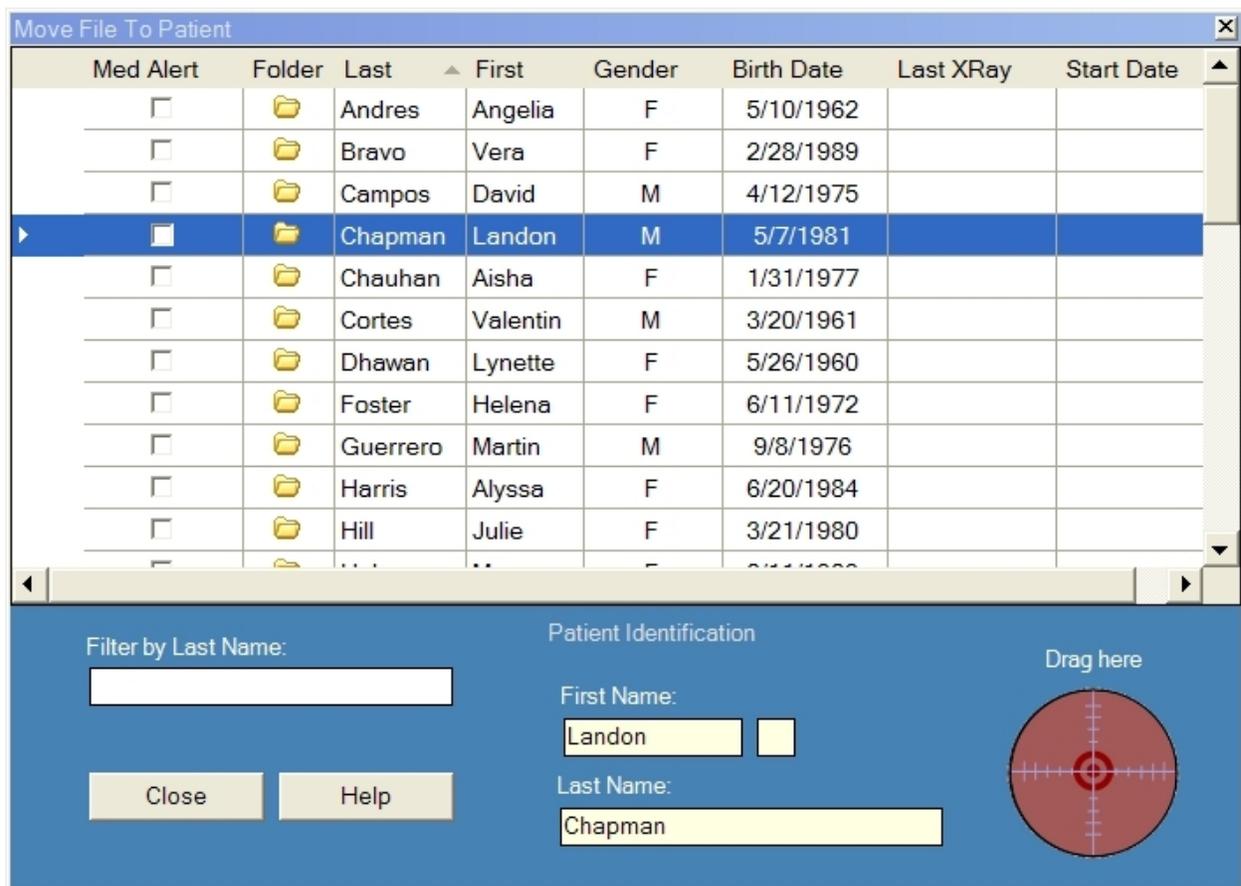
For more information, see Add New Sensor Calibration File Screen on page 42.

Manage VisionDX Sensor Calibration Files Screen

Item	Description
Verify Calibration	Click to display the sensor type and serial number of a sensor that is currently connected to your computer.
Sensor Type	Displays the type of the detected device.
Sensor Serial Number	Serial number of the device. Each sensor has a unique, factory-installed serial number.

Item	Description
Installed Calibration Files	Serial number of the device whose calibration file has been installed.
Description	Type of the sensor. Each sensor has factory-installed type (type 1 or type 2).
Add Calibration	Opens the Add New Sensor Calibration File screen.
Remove Calibration	Removes the calibration file from the list of installed calibration files. <i>Note: If the Default VisionDX USB device is removed from Progeny Imaging, select Tools > Devices > Add New Device.</i>
Close	Closes the Manage VisionDX Sensor Calibration Files screen.

Move File to Patient Screen



The Move File to Patient screen allows you to move an image to a patient record that is different than the patient record that was open when the image was acquired. When you move an image, the image is deleted from the open patient record and added to the selected patient record. Any filters, annotations, or notes associated with the image are also moved.

For more information, see Moving Images to Another Patient Record on page 26.

Open the Move File to Patient screen by selecting **Image > Move to Patient**, or **ALT + M**. Most fields in the Move File to Patient screen are informational only. To change patient information, use the Patient Properties screen.

For more information, see Patient Properties Screen on page 78.

Move File to Patient Screen

Item	Description
Med Alert	Indicates that the patient has a medical condition. Turn the medical alert on for the patient in the patient's Patient Properties screen.
Last	Patient's last name as entered in the patient's Patient Properties screen.
First	Patient's first name as entered in the patient's Patient Properties screen.
Folder	Double click to open the patient's folder in Windows. Patient folders contain DICOM images, associated files, and any other files that have been imported into the patient's folder.
Gender	Patient's gender as entered in the patient's Patient Properties screen.
Birth Date	Patient's birth date as entered in the patient's Patient Properties screen.
Last X-Ray	Date on which an X-ray acquisition was last performed for this patient. Progeny Imaging automatically updates this field.

Item	Description
Start Date	This option is not currently used.
Filter by Last Name	Enter all or part of a last name to limit the patients displayed in the Move File to Patient screen to those whose names match the name or letters entered. You can use an asterisk "*" to represent any letters.
First Name, Last Name	Name of patient to whose record the image will be moved.

Options Screen

Open the Options screen by selecting **Tools > Options**. Then select the tab for the type of information to edit.

The Options screen is used to set and edit the following system information:

- Clinic information
- General image acquisition defaults
- Histogram stretch
- Customized filters
- Annotation defaults
- Database settings

Clinic Information

The screenshot shows a software window titled "Options - Progeny Imaging" with a tabbed interface. The "Clinic Information" tab is selected and highlighted with a red box. The form contains the following fields:

- ID:
- Name:
- Street:
- City: State/Province:
- Zip: Country:
- Contact section (enclosed in a box):
 - Name: Phone:
 - Fax: Email:

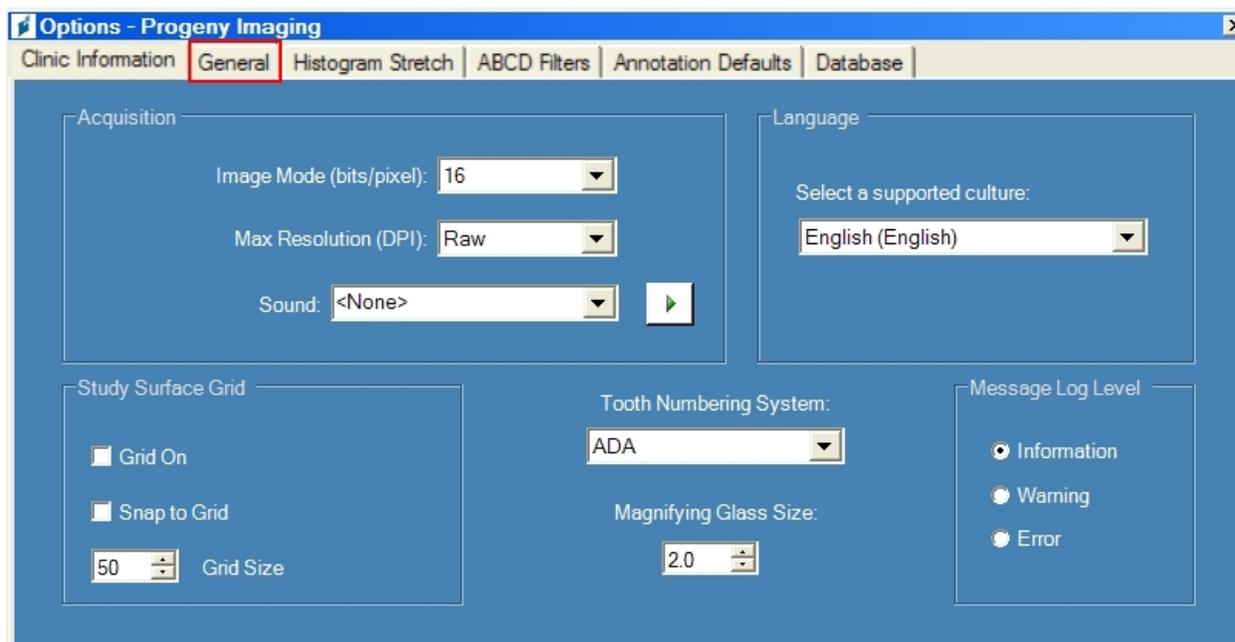
The Clinic Information tab describes your clinic. The information entered here appears in the DICOM Image Information and on printed images.

Clinic Information

Item	Description
ID	String of characters you define to identify your clinic.
Name	Name of your practice or clinic.
Street	Street address of the clinic.
City, State/Province, Zip, Country	City, state, zip code, and country of the clinic.
Name	Name of the contact for the clinic.
Phone	Phone number for the clinic.

Item	Description
Fax	Fax number for the clinic.
Email	Email address of the clinic.

General Tab



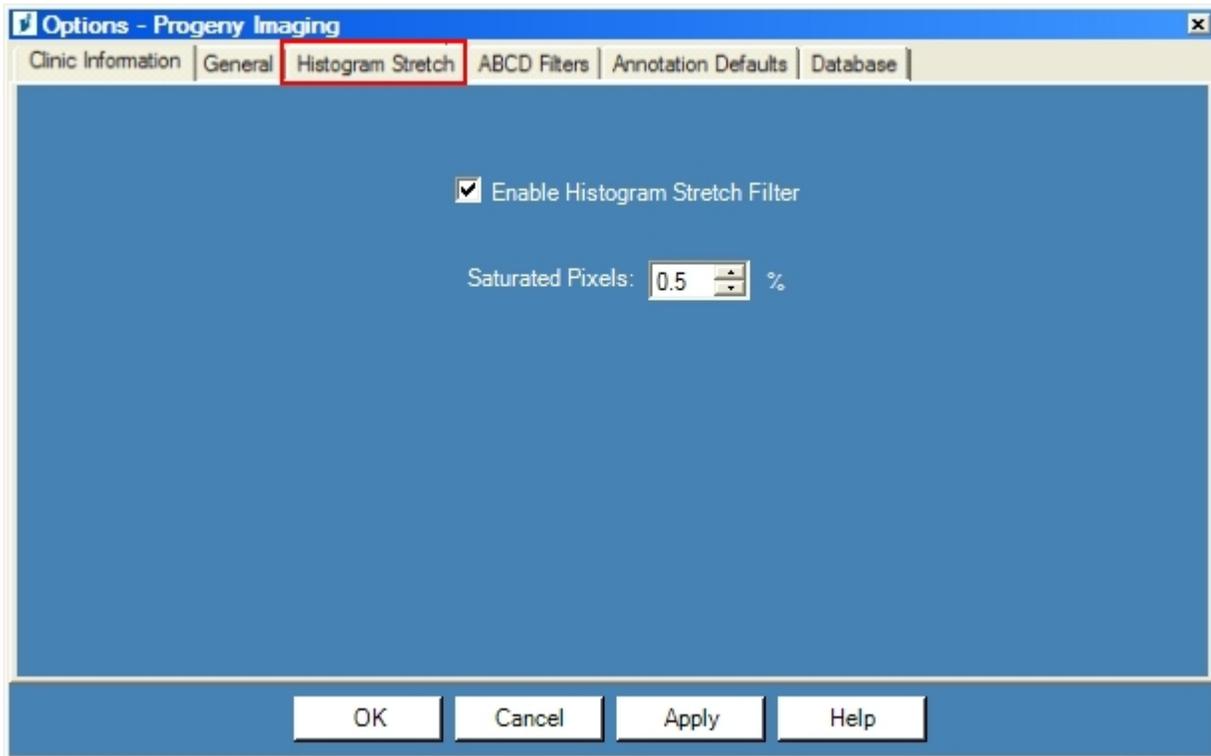
The General tab is used to enter default properties for image acquisition, language support, grid display, tooth numbering, and system log recording.

General Settings

Item	Description
Image Mode (bit/pixel)	Progeny Imaging acquires images using the 16 bit image mode, which provides unmatched image quality for radiographic images at lowest patient radiation dose. At 16 bit, digital detectors will acquire images with over 65,000 grey levels, yielding improved diagnostic information.

Item	Description
Max Resolution (DPI)	Selects the image resolution. Image resolution, measured in dots per inch, or DPI, is an indication of the quality of an image. Progeny Imaging supports raw, 300, or 600 DPI. Raw files represent the closest image format to the original sensor data, and, therefore, the most "pure" way to retain your image data.
Sound	Selects the sound that Progeny Imaging plays to indicate image acquisition. Use the drop-down to select the sound. The triangle button allows you to hear a sample of the sound.
Language	Displays a menu of language options. The default language is English. If Progeny Imaging has been localized for additional languages, you can select another language option. After selecting a language, you must exit and restart Progeny Imaging.
Grid On	Controls whether a grid will be displayed in the work surface each time Progeny Imaging is launched. If the grid is on by default, select Work Surface > Grid to toggle it off and on.
Snap to Grid	Sets the default behavior of the grid so that images placed on the work surface automatically align with grid points.
Grid Size	Sets the density of grid points on the screen.
Tooth Numbering	The Tooth Numbering System tab allows you to select the numbering system that is displayed in the Tooth Panel and recorded in image information. Progeny Imaging uses the American Dental Association (ADA) or FDI World Dental Federation Two-Digit Notation (FDI) for identifying the patient's teeth.
Magnifying Glass	Sets the image magnification for the magnifying glass tool on the Filter toolbar. Two is the least magnification, five is the greatest.
System Log Recording Level	Selects the level of detail to be recorded in Progeny Imaging log files. Log files assist Technical Support in diagnosing the behavior of the application. Do not change the System Log Recording level unless directed to do so by Technical Support.

Histogram Stretch Tab

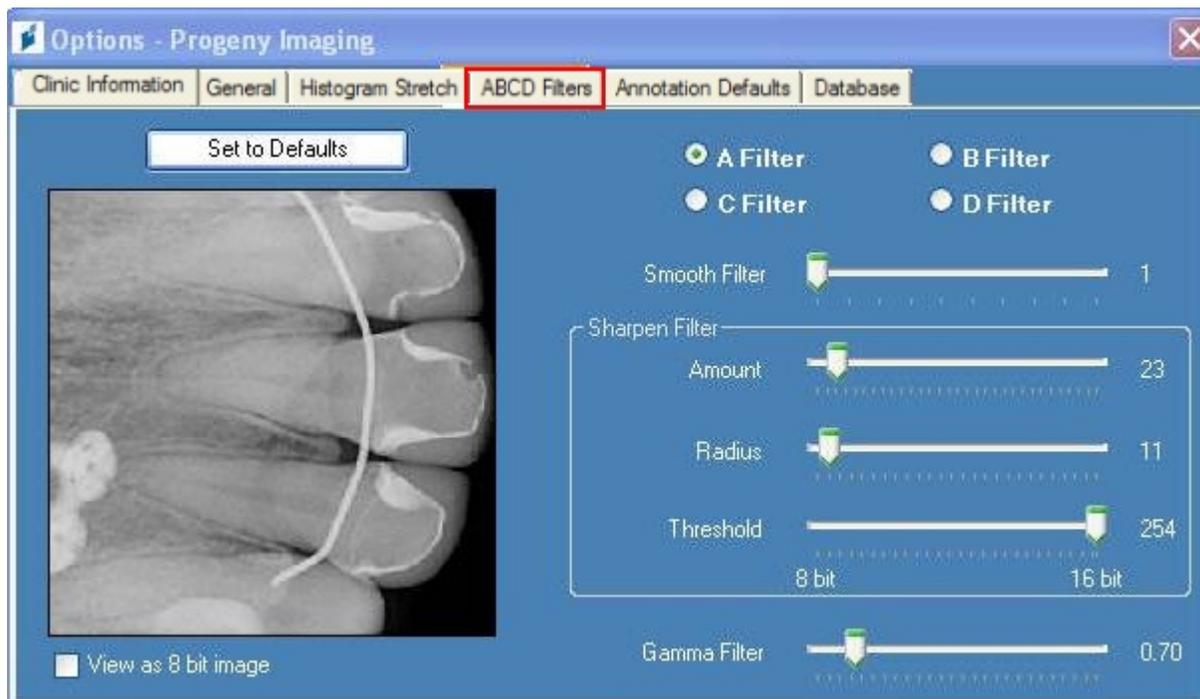


The Histogram Stretch tab is used to enable the Histogram Stretch Filter and set the pixel saturation percentage.

Histogram Stretch

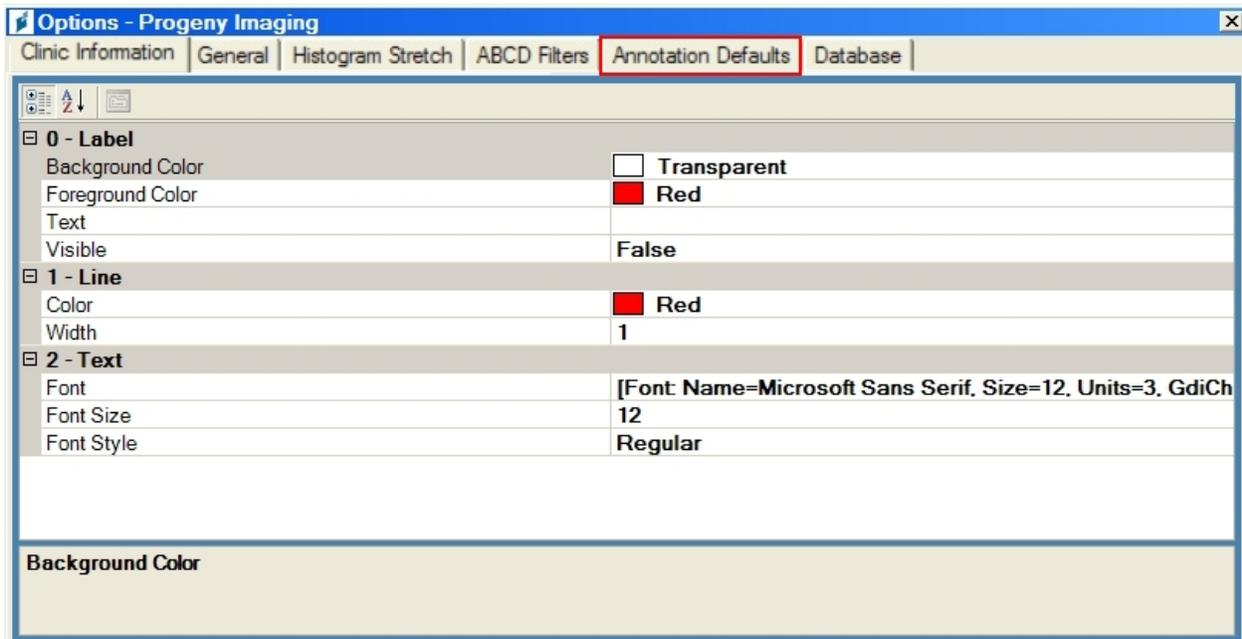
Item	Descriptions
Histogram Stretch Filter Enabled	When enabled, this option captures additional data so that a histogram can be displayed with the Image Leveling filter.
Saturated Pixels	Percentage

Customized Filters Tab



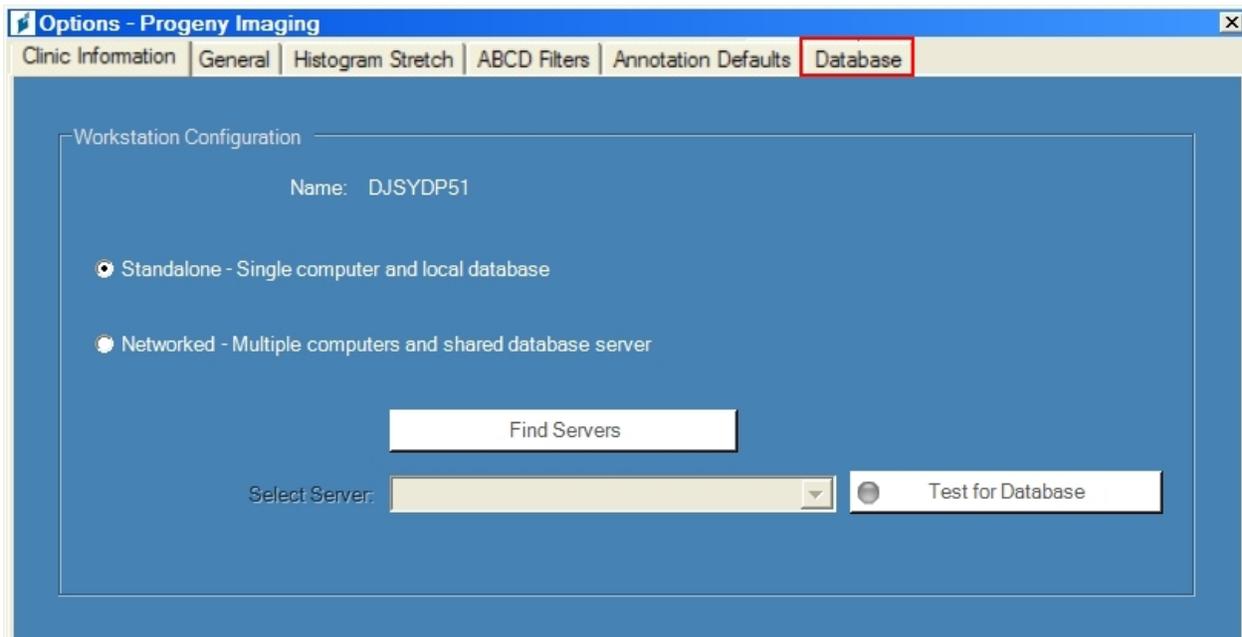
The Customized Filters tab allows you to define four custom filters. You apply your custom filters to images displayed in the work surface after acquisition by selecting the image and then clicking the A, B, C, or D icons in the Filter toolbar. To define a custom filter, select the filter that you are defining, then adjust the Smooth, Sharpen, and Gamma filter controls to the desired settings. By default, the image displays as a 16-bit image, but you can select to view it as an 8-bit image. Click Set to Defaults to cancel and redefine the custom filter.

Annotation Defaults Tab



The Annotation Defaults tab allows you to adjust characteristics of text blocks and lines that you add to images using the Annotate and Measure toolbar.

Database Tab



The Database tab allows you to specify where the patient database for Progeny Imaging will be located. By default, Progeny Imaging assumes that the patient database

is located on the machine where you are running Progeny Imaging. You also use this tab to test connectivity to the database.

See "Configuring Progeny Imaging to Use a Networked Database" in the *Progeny Imaging Installation Guide*

Database Tab

Item	Description
Standalone	Select to indicate that the Progeny Imaging patient database is located on the computer where you are running Progeny Imaging.
Networked	Select to indicate that you are using a Progeny Imaging patient database located on a computer other than the one where you are running Progeny Imaging. The computer with the patient database must be on the same network as the computer where you are running Progeny Imaging.
Find Servers	Click to locate computers on your network.
Server Drop-down List	Select the computer where the Progeny Imaging patient database that you will connect to is located.
Test Database	Click to verify that Progeny Imaging can connect to the Progeny Imaging patient database on the computer that is selected in the Server Drop-down List.

Patient Controls Toolbar



Patient Controls allow you to work with patient records.

Patient Control Toolbar

Item	Description
Hide	<p>Toggles the display of the Tooth Panel.</p> <p>Note: <i>The Patient Panel must be displayed in order to display the Tooth Panel. If the Patient Panel is not displayed, Select Patient > Show Panel.</i></p>
Float	Displays the Tooth Panel as a self-standing window. When the Tooth Panel is floating, click the Float button or double-click its window borders to dock it.
Open	Opens the Select Patient screen so that you can select a patient.
Close	Closes the patient record that is currently open.
New	Opens the Patient Properties screen where you can create a patient folder.
Properties	Opens the Patient Properties screen for the patient record that is currently open.

Patient Menu

The Patient menu contains options for working with patient records. Options marked with '*' require that a patient record be open.

Patient Menu

Menu Option	Description
Toggle Patient Panel	Hides and redisplay the Patient Panel.
Open	Displays the Select Patient screen where you select a patient record to open.
*Close	Closes the currently open patient record.
New	Opens the Patient Properties screen where you create a new patient record.
*Save	Saves the annotations or filtering for all images on the work surface.
*Add Patient Photo	Opens a file selection box where you locate and select a patient's image file to add to their record. Images must be JPEG files.
*Export Patient Images	Copies selected DICOM images to a removable media device (flash drive). DICOM Export copies all files associated with the image and a copy of ImageJ, a DICOM-compliant image viewer. <i>For more information, see Exporting Patient Images on page 37.</i>
*Send Email to Patient	Opens a blank email message using the computer's default email client. The email uses the email address in the patient's record, and this option is only available if an email address has been entered in the patient's record. You can type a message to the patient and add attachments.

Menu Option	Description
*Delete Patient	<p>Deletes the open patient record and any images, studies, and other documents that have been created for this patient. Progeny Imaging will ask you to confirm your selection to delete.</p> <p>CAUTION! To preserve patient data, be sure to backup the patient database before deleting patients.</p>
*Properties	Opens the Patient Properties screen for the currently selected patient.

Patient Properties Screen

Identification

* Patient: * Client Last Name:

* Birth Date:

ID #:

Male Female



Press to flag Medical Alert: 

* Select Primary Dentist:

Bridge ID:

Notes

The information used as data for this patient is all fictitious.

64ea335b-c225-4576-a63b-637c0a7d5f6

Last X-Ray: Not Available Last Change: 5/29/2008 2:17 PM

You use the Patient Properties screen to add and maintain patient data.

To open the Patient Properties screen and create a new patient, select **Patient > New**, or **ALT + N**. To open the Patient Properties screen for an existing patient, open the patient's record, then click the Properties icon or select **CTRL + ALT + P**. You can also open the Patient Properties screen for an existing patient by selecting the patient in the Select Patient screen and clicking Properties.

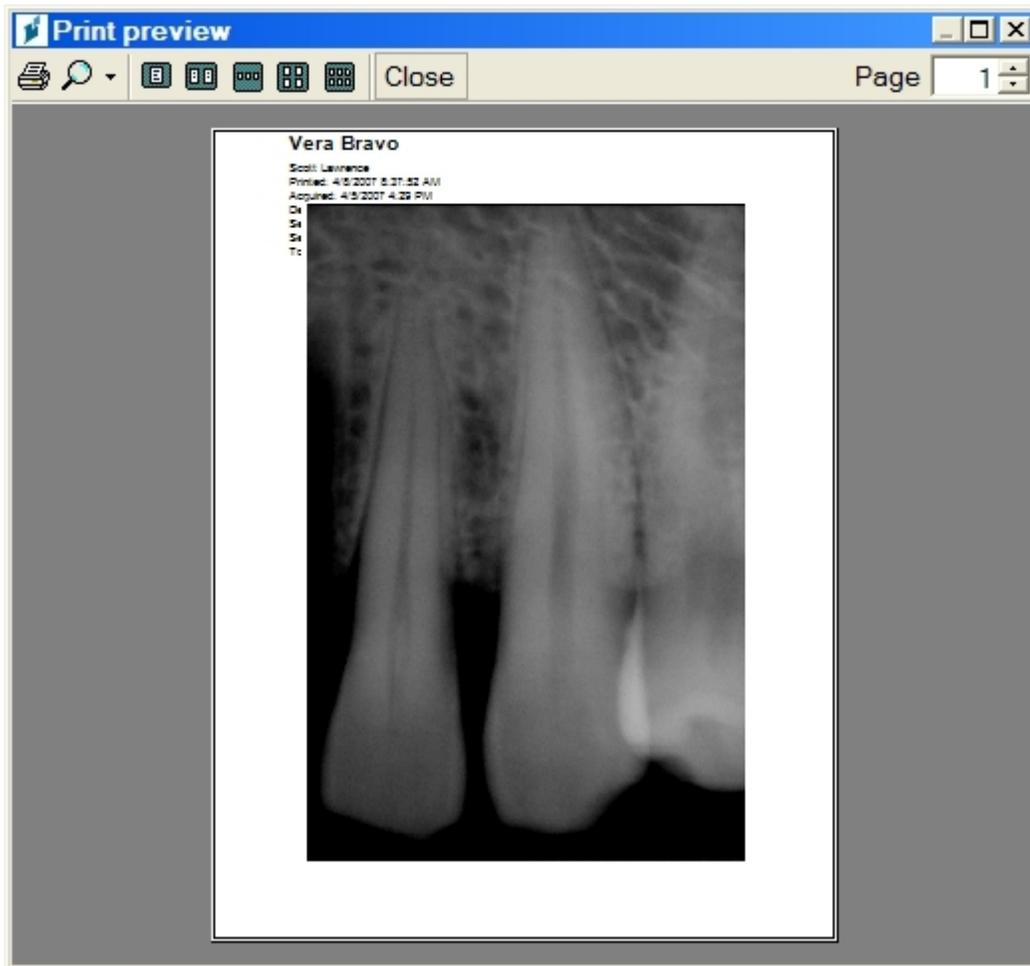
For more information, see Creating a Patient Record on page 24.

Patient Properties Screen

Item	Description
Patient	Patient's first name. You must enter a first name to create a patient.
Client Last Name	Client's last name. You must enter a last name to create a patient.
Birth Date	Patient's date of birth. Enter the birth date using mm/dd/yyyy or select the date from the drop-down calendar.
ID #	Patient's identification number.
Male, Female	Patient's gender.
Browse	Opens a file selection box where you locate and include the patient's picture. Pictures must be JPEG image files.
Client Name	Full name of the client.
Home, Work, Mobile	Client's telephone numbers.

Item	Description
E-Mail	Client's email address. This address is used when you select Patient > Send Email to Patient.
Street	Client's street address.
City, State, Zip, Country	Client's city, state, zip code, and country.
Medical Alert	Flags the patient record for a medical alert.
Primary Dentist	Progeny Imaging user to whom this patient record is assigned. When users are added to Progeny Imaging they appear in the Primary Dentist drop-down list. You must select a primary dentist in order to create a patient.
Bridge ID	Identifier for a 3rd party application, for example, practice management software, that is integrated with Progeny Imaging using the PIBridge application. For information on PIBridge and integrating a 3rd party application, contact Progeny Technical Support. <i>For more information, see Getting Assistance on page 7.</i>
Notes	Notes regarding the patient.

Print Preview Screen



You use the Print Preview screen to view and print images.

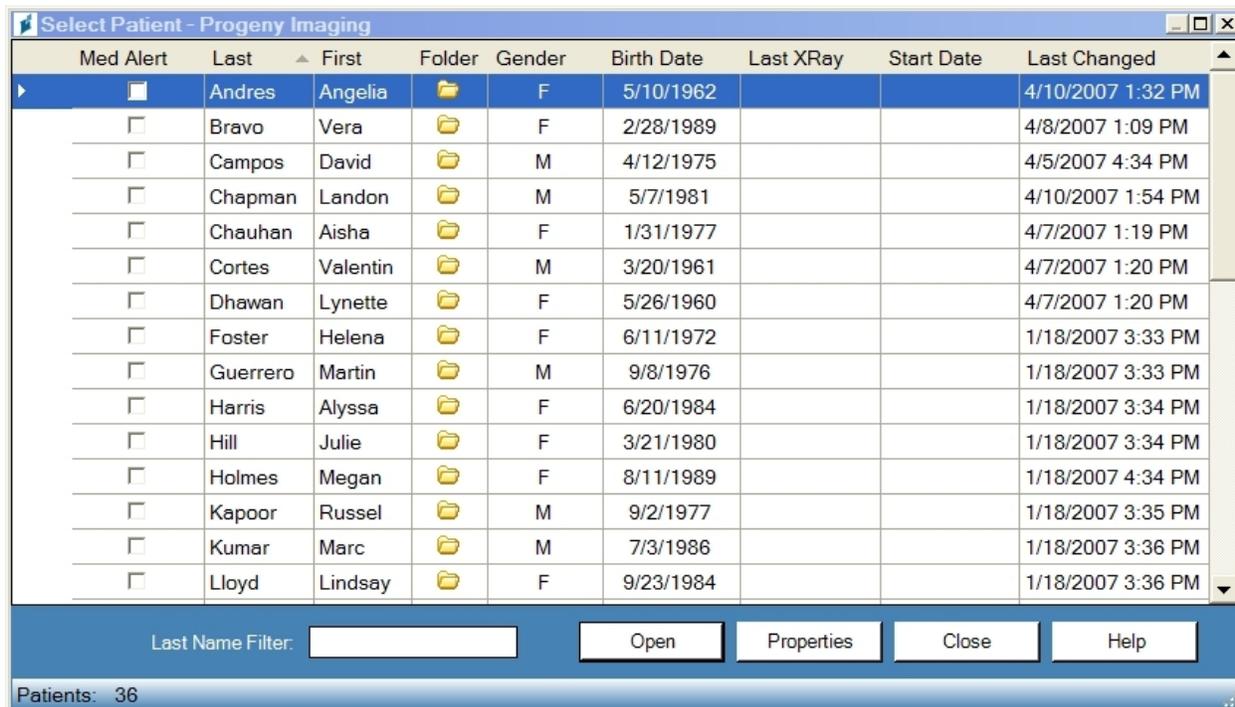
To open the Print Preview screen, select an image in the design surface. Then select **Image > Print**, or **ALT + P**, or click the **Print** icon.

Print Preview Screen

Item	Description
Print	Sends the image to the printer.
Zoom	Magnifies the image by the percentage you select in the drop-down menu.
Page icons	Selects the number of pages to display in the Print Preview screen.

Item	Description
Close	Closes the Print Preview screen.
Page field	Selects the page to display in the Print Preview Screen. Note: Progeny Imaging currently supports printing only a single image per page.

Select Patient Screen



You use the Select Patient screen to open a patient record.

Note: If you are logged in to Progeny Imaging as an ordinary user, you will see only your own patients the Select Patient screen. If you are logged in as a user with administrator privileges, you will see all patients.

For more information, see Opening a Patient Record on page 24.

Open the Select Patient screen by selecting **Patient > Open**, or **ALT + O**, or by clicking the **Open** icon.

Select Patient Screen

Item	Description
Med Alert	Indicates that the patient has a medical condition. Turn the medical alert on for the patient in the patient's Patient Properties screen.
Last	Patient's last name as entered in the patient's Patient Properties screen.
First	Patient's first name as entered in the patient's Patient Properties screen.
Folder	Double click to open the patient's folder in Windows. Patient folders contain DICOM images, associated files, and any other files that have been imported into the patient's folder.
Gender	Patient's gender as entered in the patient's Patient Properties screen.
Birth Date	Patient's birth date as entered in the patient's Patient Properties screen.
Last X-Ray	Date on which an X-ray acquisition was last performed for this patient. Progeny Imaging automatically updates this field.
Start Date	This option is not currently used.
Last Changed	Date on which the patient's properties were last modified. Progeny Imaging automatically updates this field.
Last Name Filter	Enter all or part of a last name to limit the patients displayed in the Select Patient screen to those whose names match the name or letters entered. You can use an asterisk "*" to represent any letters.

Item	Description
Open	Opens the selected patient's folder. Only one patient folder can be open at a time.
Properties	Opens the selected patient's Patient Properties screen.

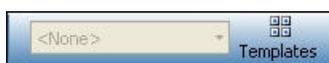
Select Source Screen



The Select Source screen allows you to select a TWAIN-compliant device so that you can use Progeny Imaging to acquire images using this device. TWAIN is a cross-platform interface for acquiring images. The TWAIN-compliant device must be on the office network. TWAIN-compliant devices include digital intraoral X-Ray sensor systems, TWAIN-compliant intraoral video cameras, and certain scanners. The TWAIN-compliant device driver must be present on your computer before you can acquire images in Progeny Imaging using the TWAIN-compliant device. For information on the TWAIN-compliant device, refer to the device manufacturer's installation information.

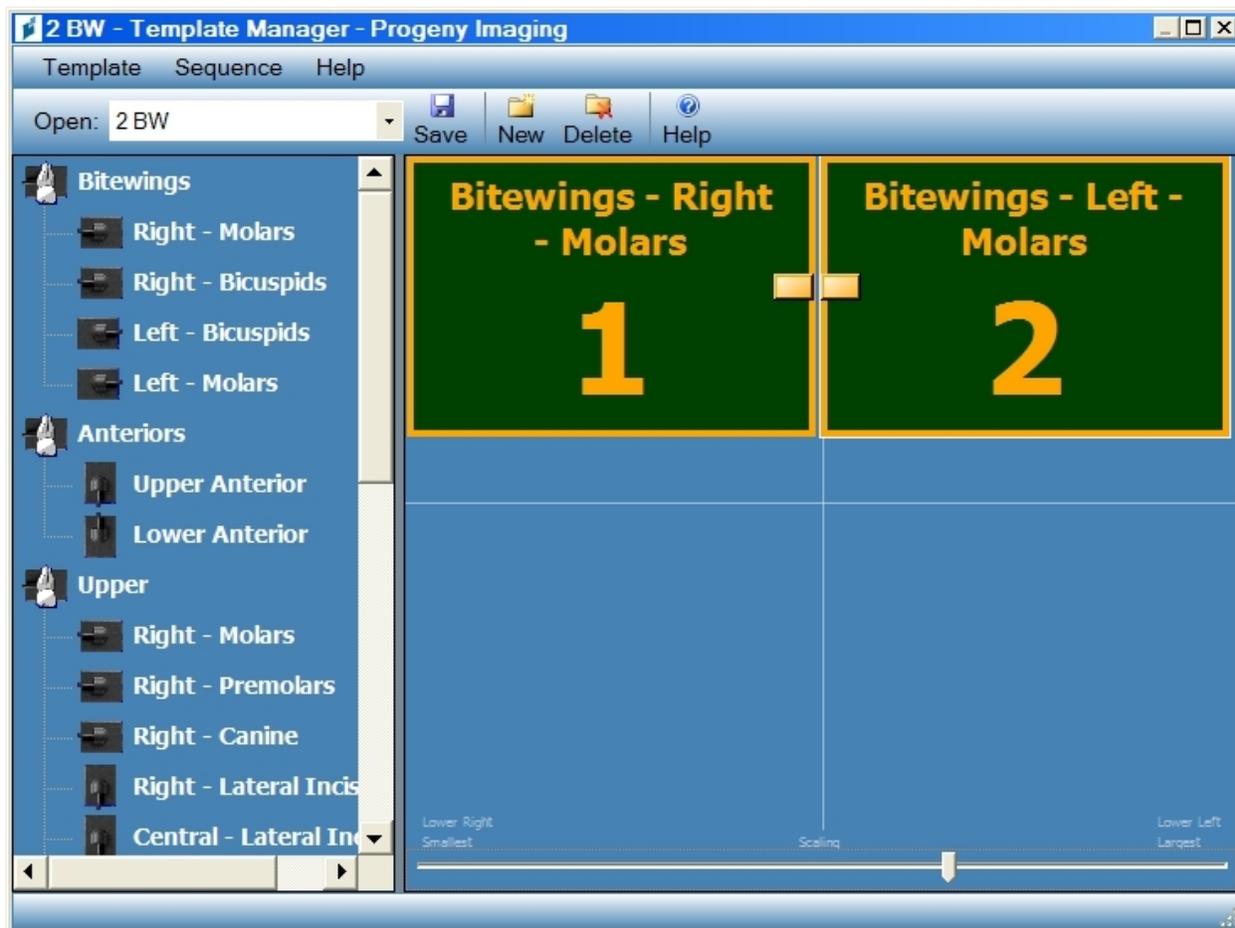
For more information, see Acquiring Images Using a TWAIN-compliant Device on page 34.

Template Controls Toolbar



Template controls allow you to select a template and open the Template Manager.

Template Manager



Templates are pre-defined groupings of image acquisition sequences that you can use to streamline image acquisition. You use the Template Manager to create and modify templates.

Open the Template Manager by selecting **Tools > Template** or click the **Templates** icon in the Template toolbar.

For more information, see Creating and Modifying Image Acquisition Templates on page 32.

Template Manager

Item	Description
Template Menu	<p>Options for working with templates</p> <ul style="list-style-type: none"> • New: Opens the New Template dialog box where you name and save a new (blank) template. The new template will be open in the design surface. • Save: Saves changes to the template currently open in the design surface. • Save As: Opens a Save As dialog box where you select a new name or location for a template that is open. • Delete: Deletes the template currently open in the design surface. The template no longer appears in the Open list. • Remove All Sequences: Removes all sequences from the template. • Exit: Closes the Template Manager.
Sequence Menu	Remove: Deletes the first or selected sequence from the template.
Help Menu	Displays the help file.
Open	Selects a template to display in the design surface. Templates listed are those that come with Progeny Imaging and templates you create using the Template Manager.
Save	Saves changes to the template currently open in the design surface.
New	Opens a box where you name and save the template that you are creating.
Delete	Deletes the template currently open in the design surface. The template no longer appears in the Open list.
Sequence Panel	Sequences of teeth that can be included in the template. Tool tips show the tooth number for teeth that are part of the sequence. Drag one or more sequences to the design surface to create the template.

Item	Description
Design Surface	Layout area of the Template Manager where you arrange sequences of teeth to create the template.

Tools Menu

The Tools menu contains settings that allow you to modify how Progeny Imaging looks and functions.

Tools Menu

Menu Option	Description
Video (ALT + V)	Opens the Video screen if the Progeny Vivid USB Camera is installed. You use the Video screen to capture video images and configure video.
Devices	<p>Displays a menu with options for configuring installed image acquisition modules or adding new modules.</p> <p>Tools > Devices > Device Configuration opens the Device Configuration screen where you change settings of an installed VisionDX, VisionDX USB, or MPSe module.</p> <p>Tools > Devices > Add New Device Wizard runs the Device Installation Wizard so you can configure a VisionDX or MPSe module for use on a office network or reinstall a VisionDX USB module.</p> <p>Tools > Devices > Add Existing Device Wizard runs the Device Installation Wizard so you can configure Progeny Imaging to recognize a VisionDX or MPSe module that is installed on a office network.</p>
Templates	Opens the Template Manager. Templates are image acquisition sequences used to streamline the image capture process for a dental study.

Menu Option	Description
Light Box	The Light Box is used to light X-ray images using the computer screen. When you select Tools > Light Box, the computer screen will go completely white so X-ray images can be displayed. Press Esc to return to Progeny Imaging.
Options	Opens the Options Screen where you can customize program defaults including Clinic Information, Default Filter, Annotation Defaults, and Tooth Numbering System.
Color Theme	Displays a menu of color themes. Color themes change the colors used in the Progeny Imaging screen.
License	Displays the currently installed Progeny Imaging license.

For more information, see VisionDX Configuration Screen on page 94.

See "Configuring VisionDX and MPSe Modules for Use on a Network" in the *Progeny Imaging Installation Guide*

For more information, see Template Manager on page 85.

For more information, see Options Screen on page 68.

Tooth Panel



The Tooth Panel allows you to select sequences of teeth and to acquire images.

For more information, see Acquiring X-ray Image Sequences on page 28.

If the Tooth Panel is not displayed, click the **Hide** icon, select **File > Toggle Tooth Panel**, or **ALT + 1**. Clicking Float in the Patient Controls toolbar, displays the Tooth Panel as a self-standing window. If the Tooth Panel is displayed as a separate window, clicking the Float button or double-clicking its window borders will dock it.

Note: To activate and use the Tooth Panel, a patient record must be open and an image acquisition module must be selected and active.

Tooth Panel

Item	Description
Teeth	Select teeth to add to an image sequence. Selected teeth are highlighted. To include contiguous teeth in a single sequence, hold down the shift key while dragging the cursor over the teeth. To create a separate sequence for each tooth, click on the tooth. The number of the sequence appears on the teeth.
BWR2, R1, L1, BWL2	Selects predefined bitewing and incisor sequences. Teeth that are included in the sequence are highlighted. The number of the sequence appears on the teeth.
	Starts acquisition of the selected sequence(s) of teeth. During acquisition, this button changes to a cancel acquisition button.
	Cancels the acquisition that is in progress. This button is displayed during an acquisition.
	Pauses image acquisition between sequences. When acquisition is paused, this button changes to a resume button.
	Continues acquisition with the next sequence. This button is displayed after pausing acquisition.
	Removes all sequences of teeth that are highlighted for acquisition.

User Manager Screen



The User Manager screen allows you to add users and create and maintain user profiles.

For more information, see *Managing Users* on page 17.

Open the User Manager screen by selecting **File > User Manager**, or **CTRL + U**.

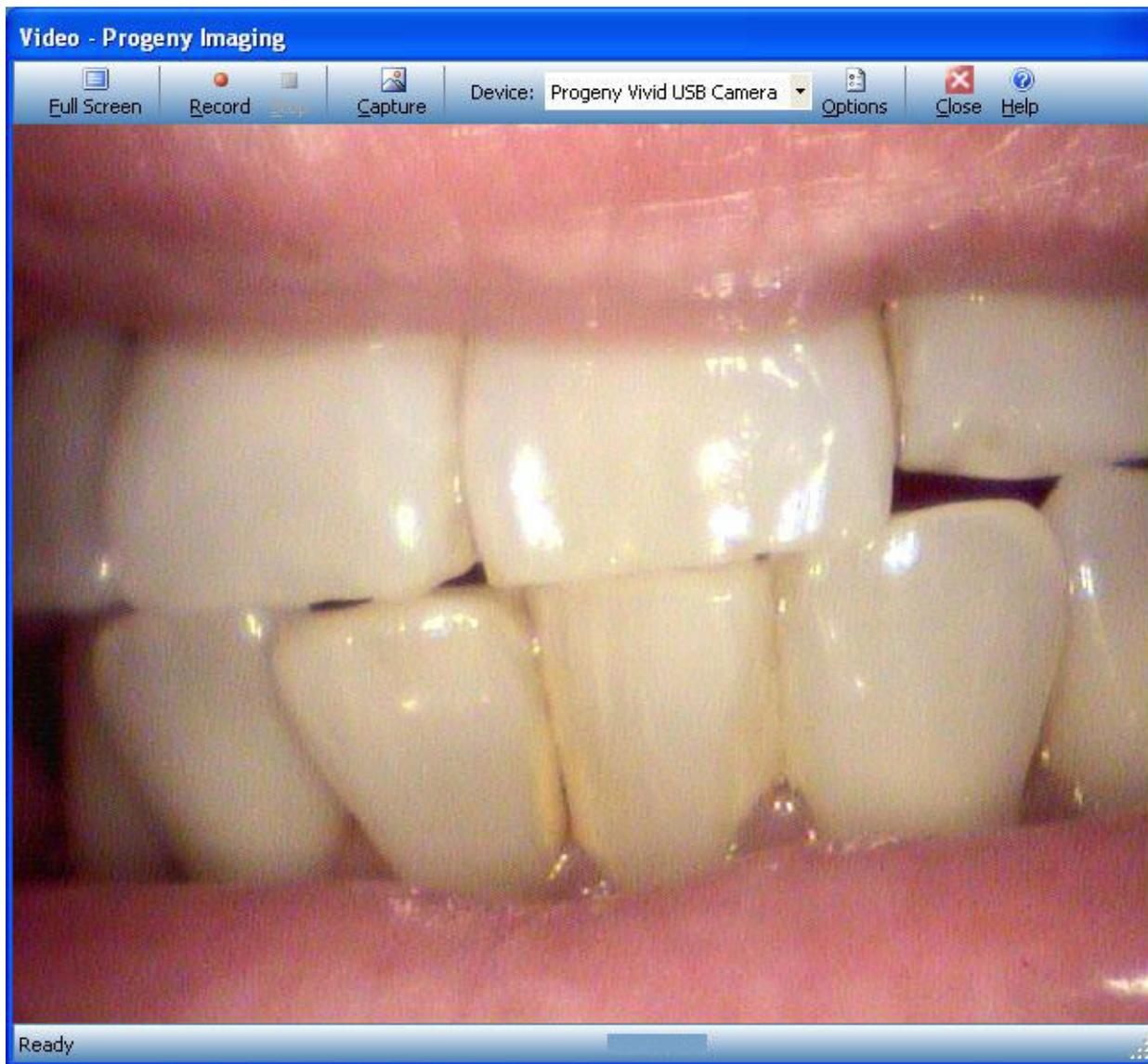
Note: You must be logged in as the Administrator or as an application administrator user in order to open the User Manager screen.

User Manager Screen

Item	Description
Administrator	Checkbox that grants the user administrator privileges. Users with administrator privileges create and manage other users and have access to all patients. Users without administrator privileges can access only their own patients.
Password	Password for the user. If a password is set, the user must enter the password each time they log in. Passwords are optional. Passwords must contain a minimum of 5 characters and are case-sensitive.

Item	Description
User ID	User's login ID. User ID is required to create a user.
First	User's first name. This field is optional.
MI	User's middle initial. This field is optional.
Last Name	User's last name. This field is optional.
Address 1, 2	User's address. This field is optional.
City, State, Zip, Country	User's city, state, zip code, and country. These fields are optional.
Home, Work, Mobile Phone	User's phone numbers. These fields are optional.
Email	User's email address. This field is optional.
New	Adds a blank row to the User Manager screen where you can create a new user.
Delete	Deletes the selected user. If the user has patients assigned to him or her, you must reassign them before Progeny Imaging will allow you to delete the user.

Video Screen



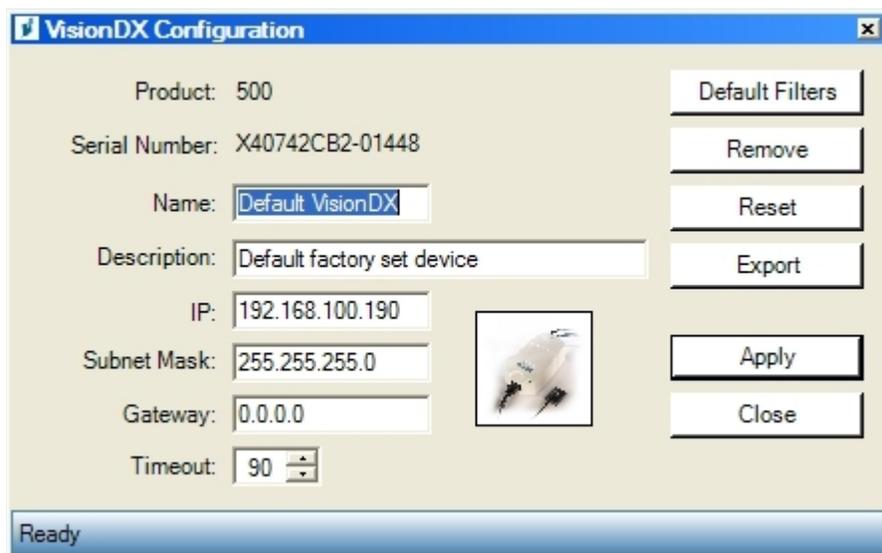
The Video screen allows you to capture and view images from the Progeny Vivid USB Camera. You use controls on the Video screen to configure capture settings. You must have a Progeny Vivid USB Camera installed in order to use the Video screen.

To open the Video screen, click **Video** on the Device Configuration toolbar, or select **Tools > Video**, or **ALT + V**.

VisionDX Configuration Screen

The VisionDX Configuration screen allows you to configure an image acquisition module. The controls that appear on the VisionDX Configuration screen differ depending upon whether you are configuring a VisionDX or VisionDX USB module.

VisionDX Configuration Screen (VisionDX Device)



Product: 500
Serial Number: X40742CB2-01448
Name: Default VisionDX
Description: Default factory set device
IP: 192.168.100.190
Subnet Mask: 255.255.255.0
Gateway: 0.0.0.0
Timeout: 90

Default Filters
Remove
Reset
Export
Apply
Close

Ready

Changes made on this screen are stored in the module's non-volatile memory and will affect all clients (users) of this module.

CAUTION!

The VisionDX Configuration screen allows you to configure the image acquisition module's non-volatile memory. Changes made in the VisionDX Configuration screen affect all clients using this device. Any Progeny Imaging user of the image acquisition module can change its device configuration.

A module must be installed before you can use the VisionDX Configuration screen to configure it. To open the VisionDX Configuration screen, first select a module in the **Device** drop-down list on the Device toolbar. Then select **Tools > Devices > Device Configuration**.

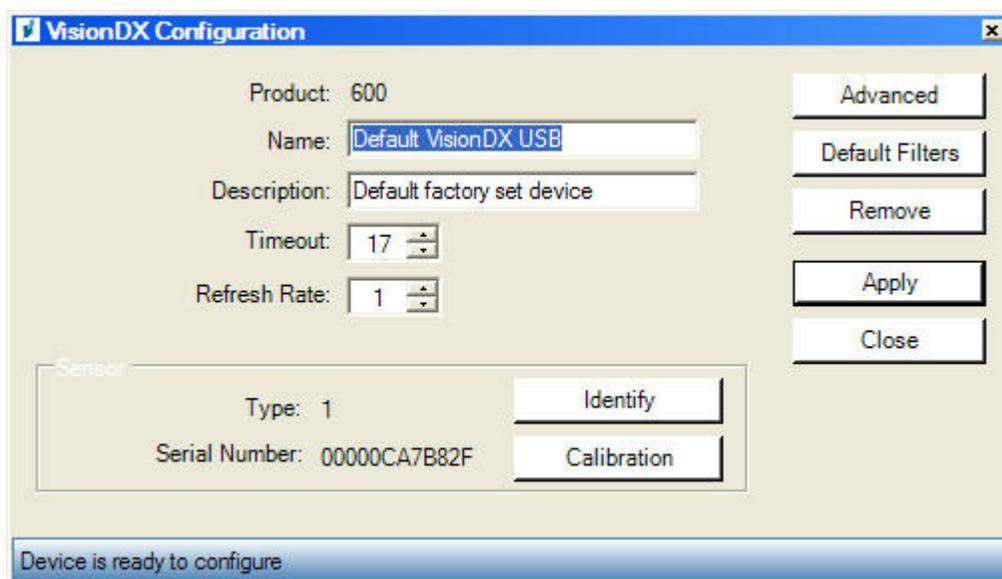
See "Configuring VisionDX and MPSe Modules for Use on a Network" in the *Progeny Imaging Installation Guide*

VisionDX Configuration Screen (for configuring VisionDX modules)

Item	Description
Product	Type of device; Progeny Imaging automatically detects the device type.
Serial Number	Serial number of the device; Progeny Imaging automatically detects the serial number.
Name	Name you assign to the module. When a device is installed initially Progeny Imaging assigns it a default name.
Description	Description for the module. When a device is installed initially, its description is 'Default factory set device'.
IP Address	Internet Protocol address for the module as connected to the computer where Progeny Imaging is installed or on the office network. By default, the IP address is 192.168.100.190.
Subnet Mask	Internet Protocol address for data allowed into the office network. By default the subnet mask is 255.255.255.0.
Gateway	Internet Protocol address of the office network gateway. By default the gateway address is 0.0.0.0.
Timeout	Number of seconds allowed for image acquisition. The timeout period begins when you click Acquire in Progeny Imaging. At the end of the timeout period, if no X-ray exposure has been made, the digital sensor generates a gray-scale image. The factory default timeout setting is 90 seconds. Progeny recommends that you use this setting to ensure that you have enough time to acquire your image.
Default Filters	Click this to open the Default Filters screen to define filters that Progeny Imaging will automatically apply to all images that you acquire. By default, no default filters are configured. <i>For more information, see Default Filters Screen on page 47.</i>
Remove	Deletes the module configuration.
Reset	Turns off and restarts the module.

Item	Description
Export	Stores the module configuration in a file. When you click Export, Progeny Imaging opens a dialog box for you to name and save the file. You can then move the module configuration file to another computer.
Apply	Applies the changes that you made to the device configuration. If you change the name of the device, Progeny Imaging will ask you to confirm the name change. Click Yes to create a new device configuration; click No to simply rename the current configuration.
Close	Click to close the VisionDX Configuration screen.

VisionDX Configuration Screen (VisionDX USB Device)



A module must be installed before you can use the VisionDX Configuration screen to configure it. To open the VisionDX Configuration screen, first select a module in the **Device** drop-down list on the Device toolbar. Then select **Tools > Devices > Device Configuration**.

VisionDX Configuration Screen (for configuring VisionDX USB modules)

Item	Description
Product	Type of device; Progeny Imaging automatically detects the device type.
Name	Name you assign to the module. When a device is installed initially Progeny Imaging assigns it a default name.

Item	Description
Description	Description for the module. When a device is installed initially, its description is 'Default factory set device'.
Timeout	Number of seconds allowed for image acquisition. The timeout period begins when you click Acquire in Progeny Imaging. At the end of the timeout period, if no X-ray exposure has been made, the digital sensor generates a gray-scale image. The factory default timeout setting is 90 seconds. Progeny recommends that you use this setting to ensure that you have enough time to acquire your image.
Refresh Rate	Seconds between refreshes. During a refresh, the device is prepared to accept an X-Ray.
Identify	Click this to retrieve the type and serial number of the image acquisition module. The device must be ready. When you click Identify, the status bar shows the sensor Serial Number
Sensor Type	Displays the size of the sensor. Type 1 sensors are smaller than Type 2 sensors.
Serial Number	Displays the serial number of the device; Progeny Imaging automatically detects the serial number.
Calibration	<p>Click this to open the Manage VisionDX Sensor Calibration Files screen where you add or remove sensor calibration files.</p> <p><i>For more information, see Manage VisionDX Sensor Calibration Files Screen on page 65.</i></p>
Advanced	Click this to show or hide Advanced settings. offset correction controls, a button for resetting sensor to factory defaults, and the Low Sensitivity check box.
Offset Correction (Advanced)	
Low Sensitivity (Advanced)	<p>When checked, the image acquisition device requires longer exposure times to generate an image. The Low Sensitivity setting is useful for AC X-Ray units which cannot be operated at shorter exposure times.</p> <p>The Sensitivity Threshold, shown for informational purposes only, indicates the level of exposure that will trigger the device.</p>

Item	Description
Default Filters	Click this to open the Default Filters screen to define filters that Progeny Imaging will automatically apply to all images that you acquire. By default, no default filters are configured. <i>For more information, see Default Filters Screen on page 47.</i>
Remove	Deletes the module configuration.
Apply	Applies the changes that you made to the device configuration. If you change the name of the device, Progeny Imaging will ask you to confirm the name change. Click Yes to create a new device configuration; click No to simply rename the current configuration.
Close	Click to close the VisionDX Configuration screen.

Work Surface

The Work Surface is where you display, filter, and annotate images that are part of a patient record.

For more information, see Displaying Images on page 35.

For more information, see Creating Studies on page 40.



Work Surface Menu

The Work Surface menu contains options for working with studies.

Work Surface Menu

Menu Option	Description
Expanded View	<p>Hides and displays additional image information for images in the study. Additional image information appears as a border on the image containing the name of the image file, date of acquisition, and other information. By default, Progeny Imaging displays the expanded view of images. When you click Expanded View (CTRL + ALT+ E), Progeny Imaging hides a border on all images in the Work Surface. If the information is hidden, clicking Expanded View (CTRL + ALT + E) displays the additional information. To show or hide additional information for a single image, select the image and choose Image > Expanded View (ALT + E).</p>
Export All	<p>Opens a folder selection box where you choose a location to save the study image(s) as JPEG files. To export DICOM images, use Patient > Export Patient Images. To export in other image formats, use Image > Export.</p> <p><i>For more information, see Exporting Patient Images on page 37.</i></p>
Grid	<p>Toggles on and off the grid in the work surface. Grid properties are set by selecting Tools > Options, then selecting the General tab.</p>
Print All	<p>Sends the images or study to the printer.</p>
Remove All	<p>Closes an open study or all open images.</p>
Save as Study (ALT + S)	<p>Saves the open study or saves images as a study.</p>

Menu Option	Description
Tile (ALT + T)	Repositions images that are displayed in the work surface.

Section 9: Keyboard Shortcuts

Keyboard Command Sequences

Use the commands below for efficient access to Progeny Imaging functions.

Keyboard Shortcuts

Shortcut Key	Command
File Menu	
ALT + 1	Show or Hide the Tooth Panel
CTRL + U	Open the User Manager
ALT + L	Logout of Progeny Imaging and redisplay the Login screen
ALT + X	Exit Progeny Imaging
Patient Menu	
ALT + 2	Show or Hide the Patient Panel
ALT + O	Open the Select Patient screen
ALT + N	Open the Patient Properties screen to create a new patient record
CTRL + ALT + P	Open the Patient Properties screen for a patient whose record is open
ALT + D	Delete the selected image in the Image Container Folder tab
Image Menu	
ALT + U	Undo filter
ALT + R	Redo filter
ALT + A	Open the Annotate and Measure toolbar
ALT + P	Open the Print Preview screen
ALT + F	Full-screen display of an image in the Work Surface
ALT + M	Open the Move to Patient screen
ALT + E	Hide and display an Expanded View of the image in the Work Surface
ALT + C	Close an image in the Work Surface
Tools Menu	
ALT + V	Display the Video screen if a video capture device is available

Work Surface Menu	
ALT + T	Tiles (repositions) images in the Work Surface
CTRL + ALT + E	Hides and displays an Expanded View of all images in the Work Surface
ALT + D	Delete Study that is selected in the Image Container Study tab
ALT + S	Save images in the Work Surface as a study
Help Menu	
ALT + H	Displays Progeny Imaging Help

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DICOM Conformance Statement