

Apteryx® Imaging (XrayVision®, XVLite™) Installation Guide

Abstract

A guide to assist dental care facilities with the install of the Apteryx Imaging product suite (XrayVision® and XVLite™) on a local computer or network.

REVISION HISTORY

Revision Level	Revision Date	Description of Revision	Effective Date	Revision Author (Initials)	Approver(s) (Initials)	Doc Change Task#
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TABLE OF CONTENTS

Revision History	2
Table of contents.....	3
1 Introduction.....	4
1.1 Overview	4
1.2 System Requirements	4
1.3 Quick Notes Before Beginning	5
2 Installing the Apteryx Imaging Product Suite.....	6
2.1 Installing XrayVision and/or XVLite	6
3 Setting Up and registering the Software	11
3.1 Registering the Software.....	11
3.2 How to Obtain an Activation Code if You're Are Not Online	12
3.3 Setting Up the Workstation Preferences	13
3.4 Creating Shortcuts on Client Workstations	16
3.5 Setting up Name Grabber on a Client Workstation	17
4 Upgrading the Apteryx Imaging Product Suite	18
4.1 Accessing and Running Upgraders	18
5 Getting Started: XrayVision	21
5.1 Overview	21
5.2 Getting Started: Adding Patients.....	21
5.3 Getting Started: Setting up Your Imaging Device	21
6 Getting Started: XVLite	25
6.1 Overview	25
6.2 Getting Started: Adding Patients.....	25
6.3 Getting Started: Setting up Your Imaging Device	26

1 INTRODUCTION

1.1 Overview

Today's dental images are captured with digital x-ray sensors, intra-oral cameras, extra-oral cameras and scanners. You need state-of-the-art, open architecture digital dental x-ray software to properly view these images.

Why should you and your staff be forced to learn three or four different software programs? With XrayVision® and XVlite™, thousands of users have already simplified their digital image workflow by using one dental imaging software package.

XrayVision and XVlite capture, enhance and display all of your dental images. Both programs are compatible with most digital x-ray sensors; phosphor plate systems; panoramic/cephalometric systems; and even 3D imaging systems. All of your full color images from intra-oral and extra-oral cameras and most other digital sources (including video) are organized into a single patient database. Visit <http://www.apteryx.com/dental/opendesign.html> for a comprehensive list of devices Apteryx Imaging supports.

Apteryx Imaging incorporates the latest advancements in imaging technology and Apteryx's patented STB (Secure Tagged Block) file format, an unmodifiable, secure and "loss-less" imaging format. While the STB file format guarantees image security and authenticity, Apteryx Imaging is flexible, allowing data storage in the standard JPEG format. Apteryx Imaging also exports to all common image formats (TIFF, JPEG, etc.) including the global medical standard DICOM (XrayVision Only) for universal viewing.

i The DICOM Extension is an additional add-on that can be included with the installation of XrayVision to enable the application to communicate with a DICOM-compliant PACS Server. Although it can run in trial mode for 30 days, a license must be purchased to register and activate the extension. Visit our online store at <http://www.apteryx.com/store/> or contact Apteryx Sales Support at **1-877-APTERYX (278-3799)**.

- XrayVision is a front office solution, as well. It duplicates films, creates referral letters and treatment plans, and electronically transfers guaranteed-secure images as electronic attachments to insurance companies or other doctors. No more lost films, no more wet film duplicators, and shorter insurance payment cycles.
- XVlite is geared to be used in the operatories. It provides a wizard driven interface for quick and easy image capture. It is also a great solution for touch screen computers, providing an onscreen keyboard for easy data entry. It has most of the same features as XrayVision, with a simple, easy to use (and learn) interface. It even shares the same patient database with XrayVision, allowing a dental facility to customize and simplify the entire practice's imaging needs.

1.2 System Requirements

While Apteryx Imaging's computer requirements are actually rather modest, Apteryx suggests getting the latest and best equipment you can afford for optimum performance. Browse the Apteryx Imaging website to get a feel of what you need your systems to do, or talk to your Apteryx Authorized Dealer for suggestions.

1.2.1 Ideal System Recommendations

- 1.0 GHz or higher processor (faster is always better, especially for servers)
- 256 MB of RAM (again, more is always better)
- 40GB Hard Drive
- Name-brand video capture card* (ATI, Hauppauge)
- CD-R drive
- 100Mbps or higher Local Area Network (TCP/IP preferred)

1.2.2 Minimum System Requirements

Although we don't suggest these specifications for today's digital dental office, Apteryx has set the following as minimums to operate Apteryx Imaging:

- 400Mhz or higher processor
- 64MB of RAM (128MB or higher is optimum)
- CD-ROM drive
- Local Area Network for networked installations (TCP/IP preferred; a 100Mbps network is optimum)
- A name-brand video capture card is required for image capture from analog video and intra-oral cameras. Digital sources typically use FireWire or USB for import.

The Apteryx Imaging Product Suite is designed for Windows XP, Vista, Windows 7, Server 2003, Server 2008 operating systems including Terminal Services and Citrix.

1.3 Quick Notes Before Beginning

1.3.1 If you have a Server

- It is highly recommended that Apteryx Imaging is installed on a shared drive of the Server (even if installing a trial version of the product). Apteryx Imaging has built-in technologies that optimize the use of the application on a network and enables the software to be run from all the workstations in that network even though it is only installed in ONE (server) location.
- When installing to a Server, be sure that the software is installed on a shared drive where other workstations can access it with FULL READ/WRITE PERMISSIONS.
- It is not necessary to install Apteryx Imaging from the target computer or network. As long as the installer has full read/write permissions, it can be installed on the server from any client workstation.

1.3.2 Installing to a Directory other than the Default Directory

- Create the destination folder first before running the installation.

1.3.3 Installing on a Network

- Due to Apteryx's unique Single Installation, Multiple Use (SIMU) technology, the software can be installed in one location, on a network, for client workstations to access. To install the software on a server/network, create the destination folder on the server and share the folder with full read/write permissions for 'Everyone' before running the installation program.

1.3.4 Windows Vista, Windows 7, or Windows Server 2008 Installs

- To avoid issues with the Vista/Win7/Server 2008 User Access Control (UAC) feature, Apteryx recommends running the installer programs as an Administrator by right-clicking the installer's .exe file and selecting *-Run as Administrator-*. Additionally, Apteryx recommends users avoid installing the application in the default `\program files(x86)\` directory to prevent possible issues with the Windows VirtualStore feature.

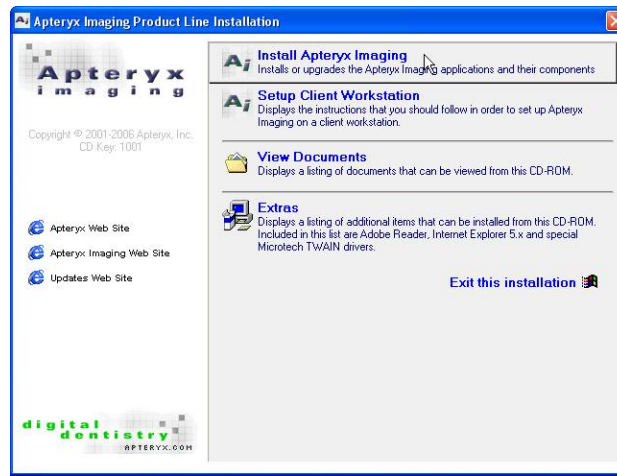
2 INSTALLING THE APTERYX IMAGING PRODUCT SUITE

2.1 Installing XrayVision and/or XVLite

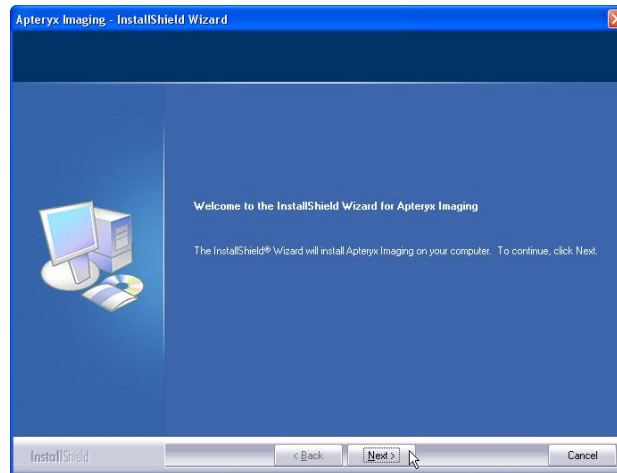
2.1.1 If installing from a CD, insert the installation CD into the CD-ROM drive. If the Windows Auto Play feature is enabled on the computer, the Setup program will automatically start. If not, use Windows Explorer to navigate to the CD drive letter and double-click on the “setup.exe” file. Skip to Step 3.

2.1.2 If installing using the self-extracting executable file, double-click on “ApteryxImagingInstall.exe”. Click on the **Setup** button to extract and run the installer program.

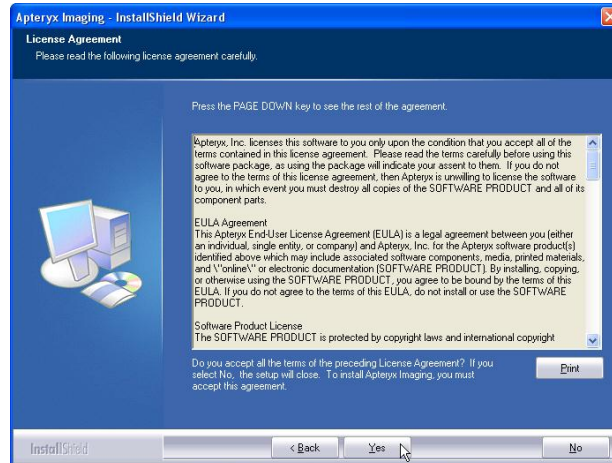
2.1.3 The Apteryx Imaging install wizard displays. Select **Install Apteryx Imaging**.



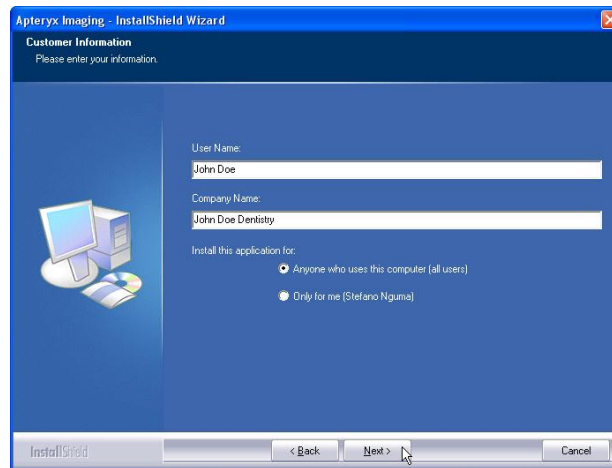
2.1.4 The install wizard launches. Click **Next** to continue with the installation.



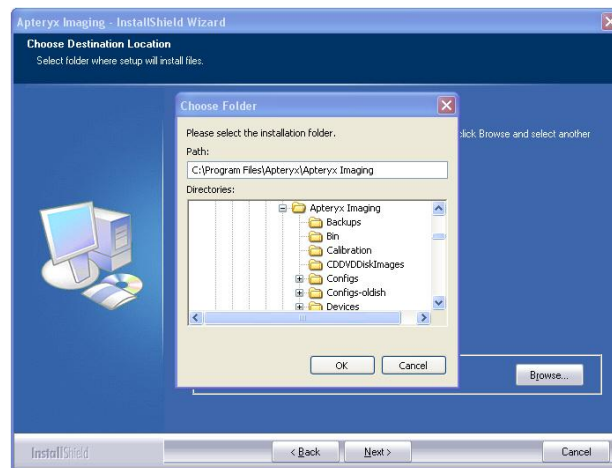
2.1.5 Review the License Agreement. Click on **Yes** to accept the terms and continue with the installation.



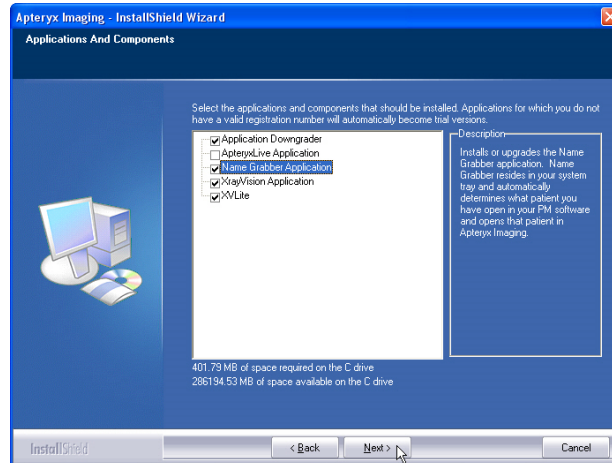
2.1.6 Complete the 'User Name' and 'Company Name' fields and select the appropriate option to allow or restrict all users. Click **Next** to continue.



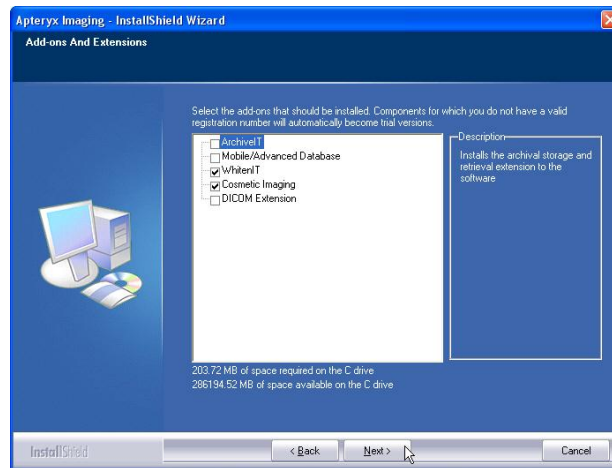
2.1.7 The install program will attempt to install to the default directory, C:\Program Files\Apteryx\Apteryx Imaging\. To choose an alternate destination folder (locally or on a network), click on the **Browse** button to open the 'Choose Folder' dialog box, and then double-click to select the desired install folder. Click **Next** to continue.



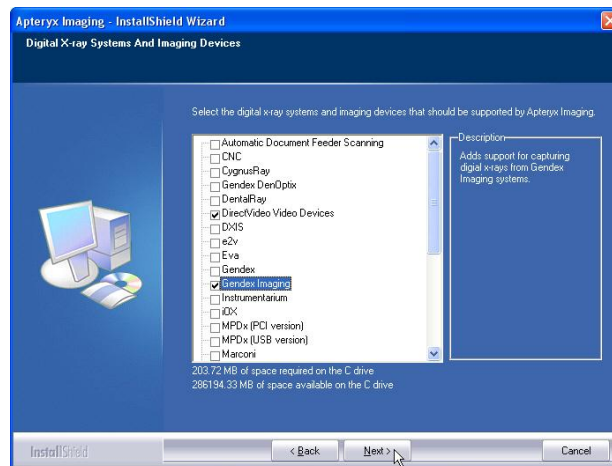
2.1.8 Select the desired imaging software (XrayVision; XVLite; or both). To bridge from a practice management (PM) application, add Name Grabber as an additional application to install. Select any additional components (e.g. AppDowngrader) if desired. Click **Next** to continue.



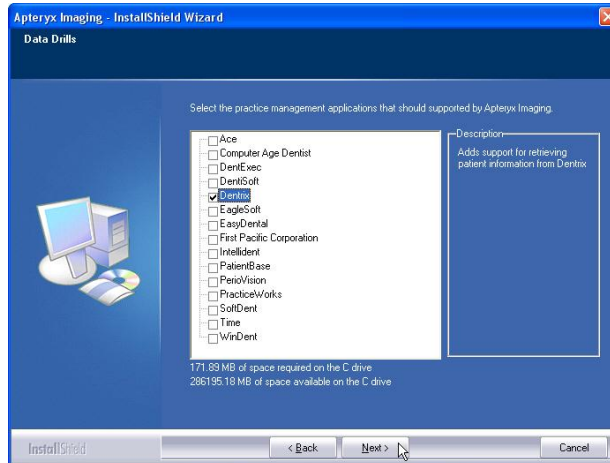
2.1.9 Select any desired add-ons or extensions and then click **Next** to continue.



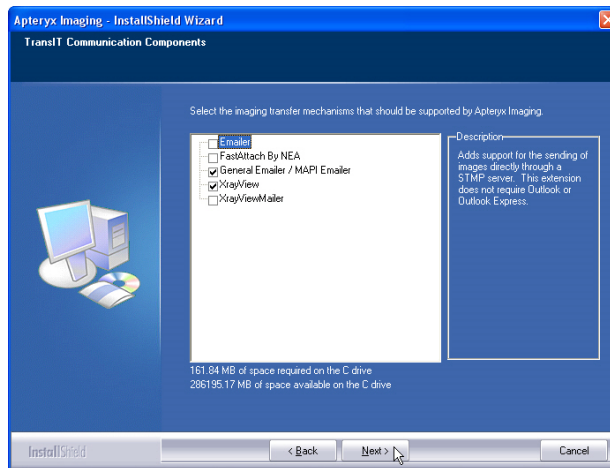
2.1.10 Apteryx imaging software supports multiple digital x-ray systems and imaging devices. Select the appropriate hardware options and then click **Next** to continue.



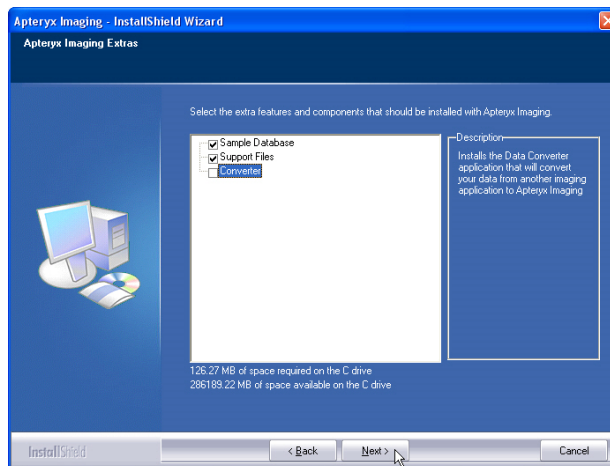
2.1.11 Apteryx imaging software supports bridging from common Practice Management (PM) applications to retrieve patient information. Select the appropriate PM data drill, if applicable, and click **Next** to continue.



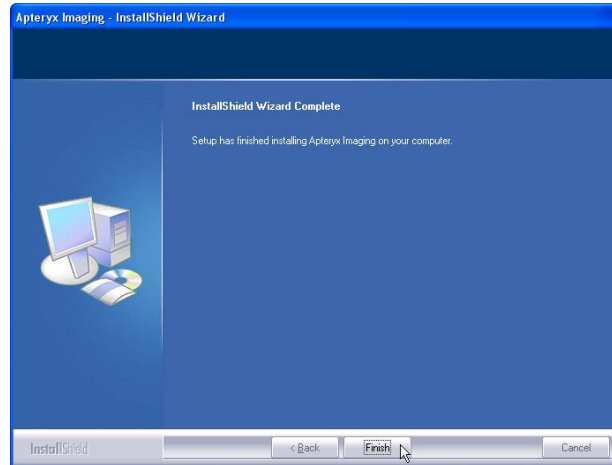
2.1.12 Apteryx imaging software includes transfer mechanisms useful in creating/sending email via an SMTP connection, FastAttach by NEA, etc. Select **General Emailer** if you use Outlook on local workstations to send email. After selecting desired options, click **Next** to continue.



2.1.13 Select any extra features or components on the screen shown below and then click **Next** to continue.



- 2.1.14 Click **Next** to continue and Next again to start the installation process. When complete, the screen shown below will display. Click **Finish** to exit the setup program.



- 2.1.15 Once the installation is complete, an 'Apteryx Imaging' folder is created locally in the Windows **START > Programs** menu and an icon is placed on the desktop.
- 2.1.16 To ensure that the latest version of the software and additional components are used, an upgrade is highly recommended. Follow the steps below to upgrade Apteryx Imaging and additional applications, components, sensor/imaging device extensions, and add-ons.

3 SETTING UP AND REGISTERING THE SOFTWARE

3.1 Registering the Software

Once the installation has been completed, the Apteryx Imaging installer places the appropriate icons on the desktop from which the installation was run.

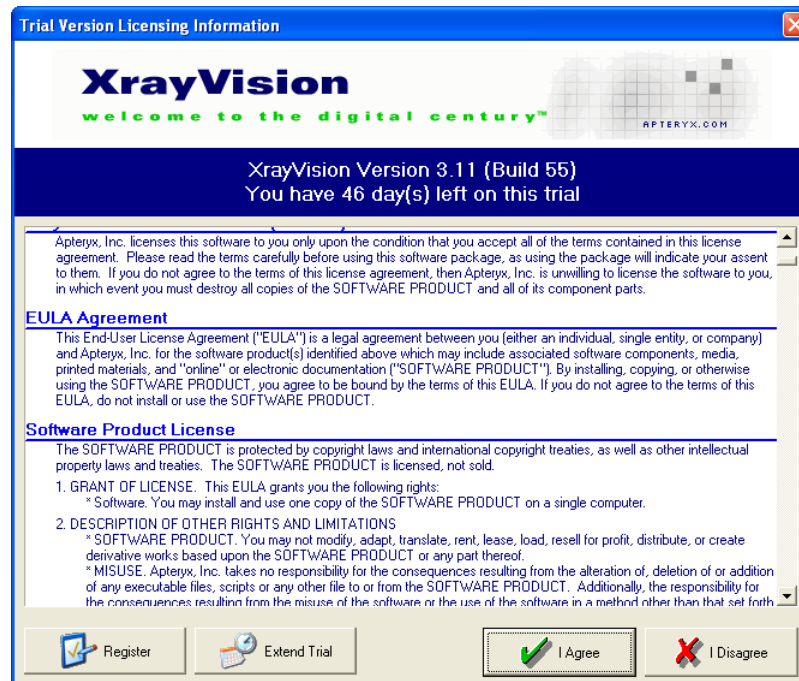
Since the software has not been registered yet, upon first launch, the software will prompt the user to register the software or run as a trial. If purchased, Apteryx provides a 24 character, alpha-numeric -registration- number that can be used to activate the software on one or more workstations. If not, the software can be run for 30 days as a Trial Version and registered at any time.

3.1.1 Double-click on the appropriate icon to launch XrayVision or XVLite.

3.1.2 XrayVision - 

3.1.3 XVLite - 

3.1.4 The Trial Version Licensing Information screen displays.



3.1.5 To run the software as a trial, select the **I Agree** button.

3.1.6 To register the software, select the **Register** button. The 'Register' dialog box displays.

- 3.1.7 Enter the registration number provided (including the dashes) in the 'Registration Number' field.

i To avoid confusion, Apteryx avoids the use of the letter "O" in registration numbers. Always enter a "0" in these instances.

- 3.1.8 Enter, at minimum, a first and last name in the 'User Name' field.
- 3.1.9 Enter the name of the dental facility in the 'User Company' field.
- 3.1.10 Enter the email address of the registered user in the 'User Email' field. (*Optional but recommended.*)
- 3.1.11 Enter the phone number of the dental facility in the 'User Phone' field.
- 3.1.12 Once the registration information has been entered, the user must activate the software by obtaining an Activation Code. An internet connection is required to activate the software. If connected to the internet click on the **Get Activation Code** button.

i Refer to [How to Obtain an Activation Code if You Are not Online](#) if the workstation is not connected to the internet.

- 3.1.13 Once the activation code has been received or manually entered click on the **Done** button to complete the registration process.

3.2 How to Obtain an Activation Code if You're Are Not Online

If the computer you are working from is not connected to the internet, you may register your software either from another computer that is connected, or by contacting someone else who has internet access and providing them the following instructions.

- 3.2.1 Go to <http://www.apteryx.com/register>
- 3.2.2 Once opened, a registration page with information fields identical to the imaging software's registration screen will display.

- 3.2.3 Enter the registration number (including the dashes) and install ID (which is displayed on your registration screen), as well as User Name, User Company, Email and Phone into the Registration form. It is very important to double check all numbers and letters in the Registration Code and Install ID before clicking on the **Register Now** button and obtaining your Activation Code.
- 3.2.4 Enter the Activation Code provided into the 'Get Activation Code' field of the imaging application's registration screen and click the **Done** button to complete the registration process.

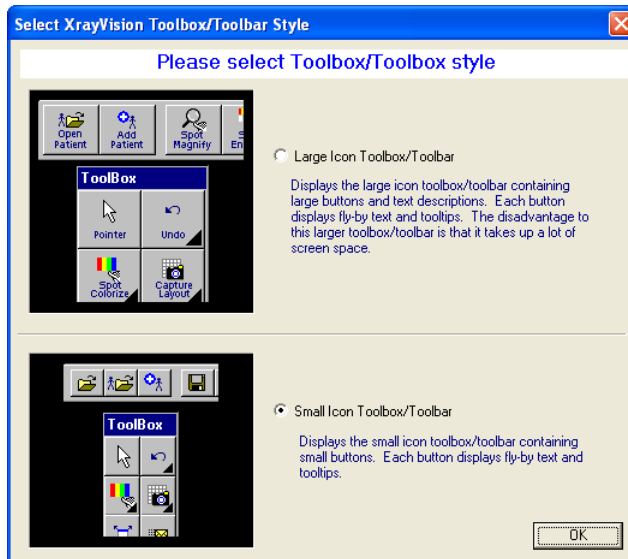
If you are unable to activate your software or obtain an activation code, please contact your Dealer or Apteryx Technical Support during normal business hours and they will be happy to assist.

3.3 Setting Up the Workstation Preferences

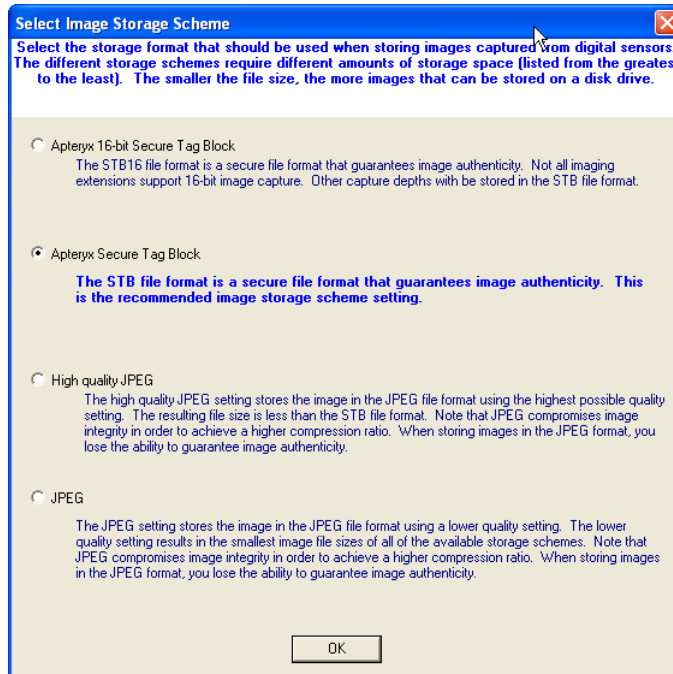
i A PAC license is needed for each client workstation running Apteryx Imaging applications from the network. An error message will be displayed if attempting to setup more computers than the number of PAC licenses purchased. More licenses can be obtained by contacting your sales representative or Apteryx directly.

3.3.1 When XrayVision is launched for the first time:

- 3.3.1.1 The user will be prompted to select a Toolbox/Toolbar style, large or small icons,. Select your preference and click **OK** to proceed.



- 3.3.1.2 The 'Select Image Storage Scheme' dialog box displays for the user to specify the preferred storage format that images will be saved in when captured on the workstation.

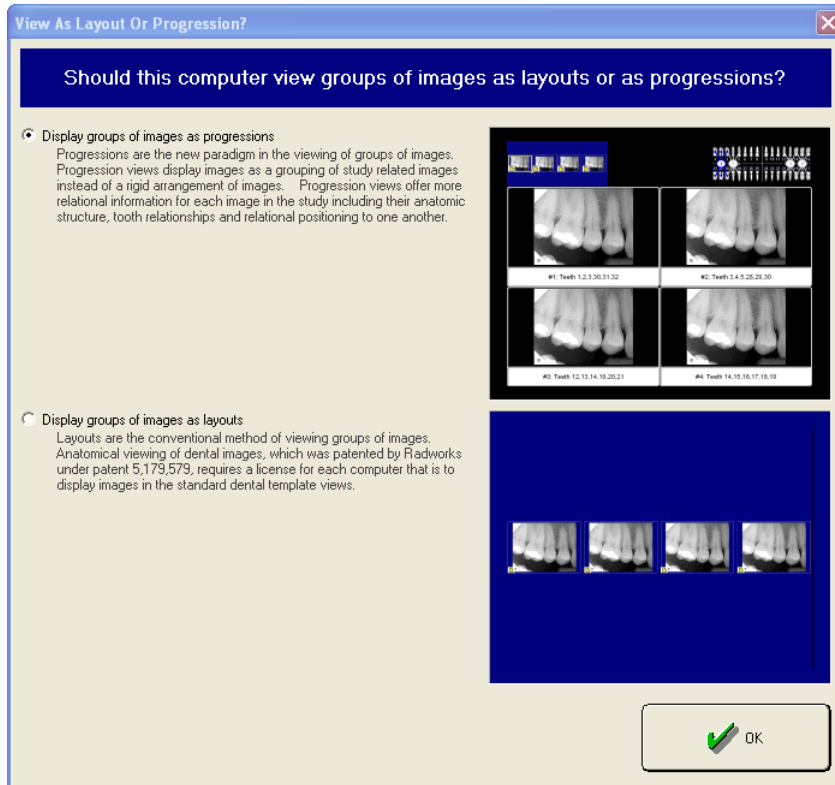


Make a selection on one of the options shown below and click on OK to proceed:

- Apteryx 16 Bit Secure Tag Block (STB16) – Apteryx’s proprietary 16 bit image storage format that guarantees image authenticity.
- Apteryx Secure Tag Block (STB 8)– The recommended image storage format.
- High Quality JPEG – The space-saving storage format that uses the highest possible quality setting. Image authenticity is sacrificed with this format.
- JPEG – This option uses a lower image quality setting than the setting above.

3.3.2 When XVLite is launched for the first time:

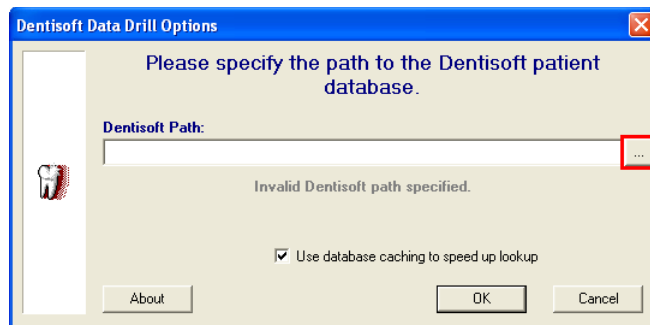
- 3.3.2.1 The user will be prompted to select a preference for viewing image groups/mounts.



Make a selection on one of the options shown below and click on **OK** to proceed:

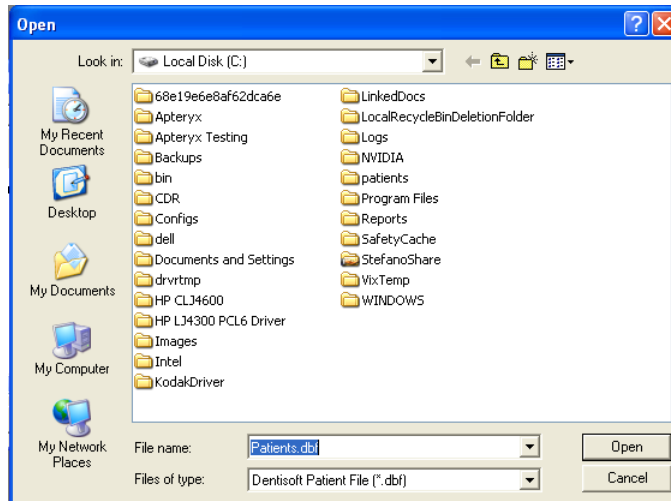
- **Display groups of images as progressions**
- **Display groups of images as layouts**

3.3.3 If a Practice Management (PM) Data Drill was included during the software installation process (refer to Installing the Apteryx Imaging Product Suite, Step 11), the user will be prompted to specify the path of the database.



3.3.3.1 Click on the **Browse** button shown in red above.

3.3.3.2 On the 'Open' dialog box, navigate to the database location of the PM application. The folder selected must include the file specified in the 'File name' field. Click **OK** when done.



3.3.3.3 Verify that the Data Drill Options dialog box specifies a valid database path and reflects the number of patients in the database. Click **OK** to proceed.

3.3.4 The imaging software will then launch and display on the desktop.

3.4 Creating Shortcuts on Client Workstations

Due to Apteryx's unique SIMU technology (Single Installation, Multiple Use), Apteryx Imaging only requires one install on a company's network. Once installed, any client workstation can automatically run the application without performing additional installations on each computer.

i A PAC license is needed for each client workstation running Apteryx Imaging applications from the network. An error message will be displayed if attempting to setup more computers than the number of PAC licenses purchased. More licenses can be obtained by contacting your sales representative or Apteryx directly.

Once an installation is complete, shortcuts and desktop icons are only created on the computer that ran the installation. If the software is installed on a networked server, perform the following steps on each additional client workstation to create local Start Menu shortcuts and desktop icons.

- 3.4.1 Navigate to the installation directory on the server computer. Typically on a standard Windows Network, the Apteryx imaging install location can be found by selecting the Windows **Start** button; clicking **My Computer** to open Windows Explorer and selecting **My Network Places > Entire Network > Microsoft Windows Network**. A listing of all networked servers will be displayed. Select the server name and navigate to install directory typically located under `... \Apteryx \Apteryx Imaging\`. If unsure how to access the server directory from a client workstation, contact your network administrator or Apteryx Support for assistance.
- 3.4.2 Launch Apteryx Imaging by double-clicking on the appropriate application file ("XVassistant.exe" or "XVLite.exe").
- 3.4.3 To create local shortcuts:
 - In XrayVision, select **Help > Create Local Shortcuts** from the menu.
 - In XVLite, select **Preferences** and then click on the **Create Local Shortcuts** button.
- 3.4.4 If the software is registered and a PAC license is available, a license will be allocated to client workstation when the imaging software is launched for the first time. If the software was not registered, the application will run as a Trial Version each workstation that launches the software. As a trial version, the software allows a maximum of 15 computers to use the application.

3.5 Setting up Name Grabber on a Client Workstation

Due to Apteryx's unique SIMU technology (Single Installation, Multiple Use), Name Grabber only requires one install on a company's network. Once installed, any client workstation can automatically run the application without performing additional installations on each computer.

A typical network installation of Name Grabber consists of installing the application on a server. Since the server is a shared resource with all of the computers on the network, each client workstation will have access to the application.

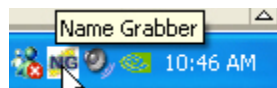
Perform the following steps on each additional client workstation to set up Name Grabber.

- 3.5.1 Using Windows Explorer, navigate to the installation directory on the server computer. Typically, Apteryx imaging applications and Name Grabber are installed in ...*\Program Files\Apteryx\Apteryx Imaging* directory on the server.
- 3.5.2 Run the "Name Grabber.exe" application file.
- 3.5.3 Once the application starts for the first time on the client workstation, a dialog box will display offering the choice to start Name Grabber automatically whenever Windows starts. Select the **Yes** ... button to automatically start Name Grabber.

i Selecting **Yes** inserts a Name Grabber icon in the Windows Start Up menu thereby assuring the application is always launched whenever the computer is booted up and Windows starts.



- 3.5.4 Once the application launches on the client workstation, a Name Grabber icon will appear in Window's System Tray (at the bottom-right of the screen, next to the clock) indicating the application is running.



4 UPGRADING THE APTERYX IMAGING PRODUCT SUITE

4.1 Accessing and Running Upgraders

The latest updates for the Apteryx Imaging Product Suite, its related components, add-ons, and additional applications are available online at <http://www.apteryx.com/dental/downloads>. Follow the directions below to upgrade Apteryx Imaging Software (XrayVision or XVLite); additional applications (e.g. Name Grabber); add-ons and components; hardware device extensions; etc. included in the initial install.

4.1.1 Close all instances of Apteryx imaging software and Name Grabber running on any workstation.

4.1.2 Select the appropriate links on the site above to find and download updates for the following:

- Apteryx Imaging Software (XrayVision, XVLite, and OEM versions) Updates: Find and download the appropriate upgrader (e.g. XV Update or XVLite Update).
- Sensors & Imaging Device Updates: Find the appropriate link(s) for the manufacturer of the digital x-ray system(s) and device(s) utilized to download the appropriate extensions.
- Name Grabber Update: If Name Grabber was included in the initial install, download the Name Grabber Application Updater to a known location on the computer.

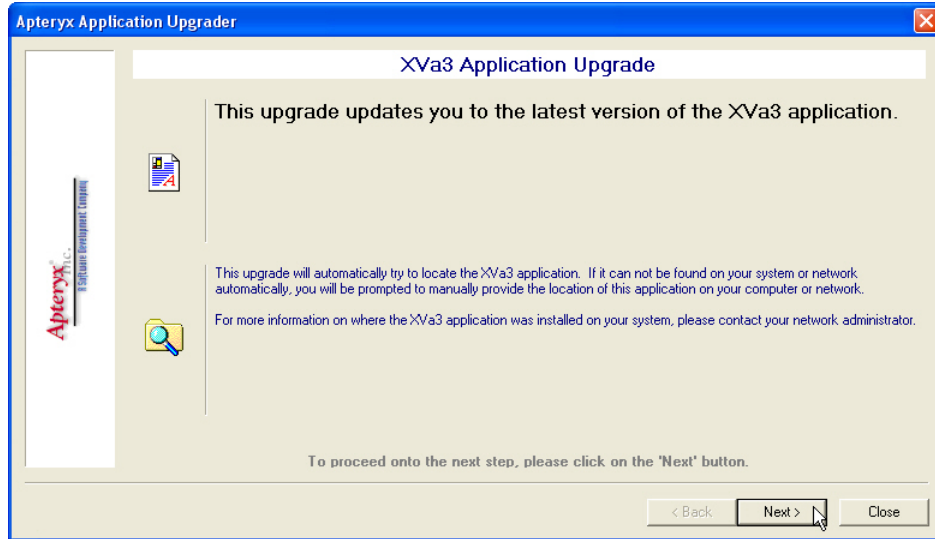
i Apteryx Imaging 3.12 or higher is only compatible with NameGrabber 2.1 or higher and will therefore require an update as well.

- PM Data Drills Updates: If a Data Drill for a specific PM application was included in the initial install, find and download the appropriate Data Drill updater.
- Updates for Additional Components, Add-ons & Extensions: If additional components (e.g. ApteryxLive); extensions (e.g. WhitenIT, Comestic Imaging, etc.); and add-ons (e.g. TransIT, FastAttach NEA, etc.) were included in the install, find and download the appropriate updaters.

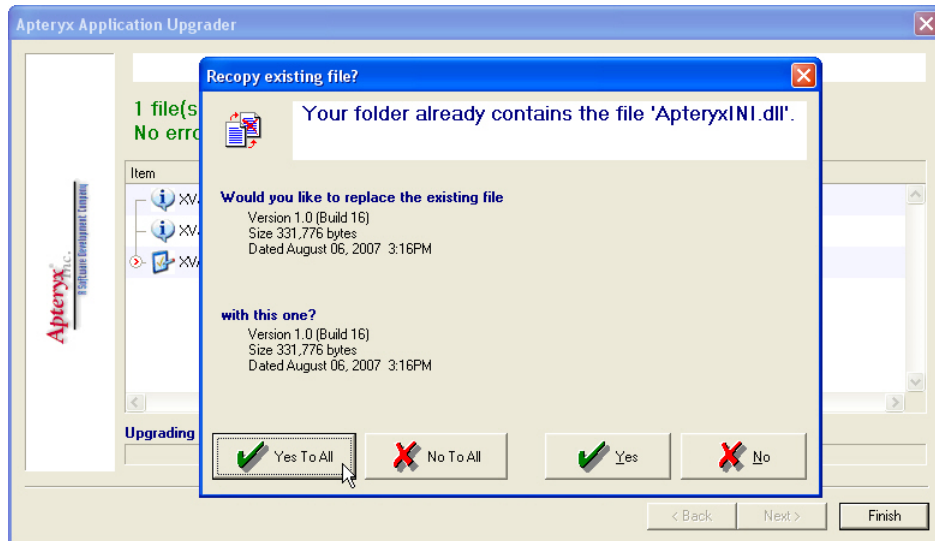
4.1.3 Follow the steps below to run each downloaded updater.

i To avoid issues with the Vista/Win7/Server 2008 User Access Control (UAC) feature, Apteryx, Inc recommends running installer programs as an Administrator by right-clicking the installer's .exe file and selecting **Run as Administrator**.

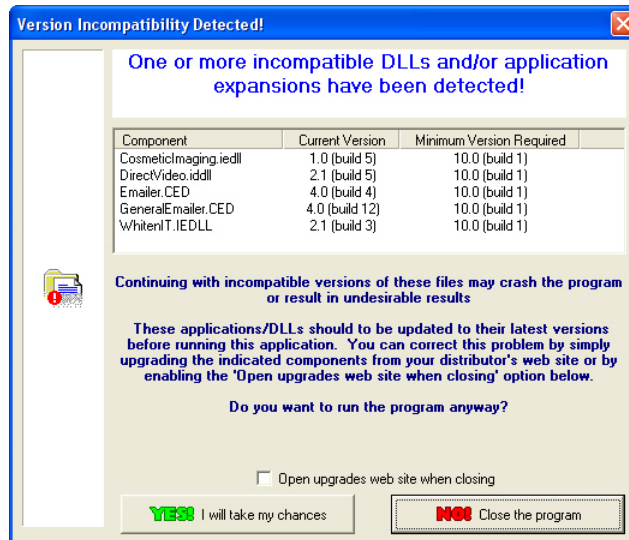
- 4.1.3.1 Run the downloaded upgrader to launch the Apteryx Application Updater. Click **Next** to continue with the upgrade.



- 4.1.3.2 The upgrader will automatically locate the application, whether locally or on a network, and begin the upgrade process immediately. Click **Yes to All**, whenever prompted, to replace any existing files.



- 4.1.3.3 Click on **Finish**, when complete, to exit the upgrader.
- 4.1.4 The latest versions of the Apteryx Imaging (XrayVision® 3.12 and XVLite™ 3.12) are available as upgraders on Apteryx.com's Updates & Add Ons Website. *Unlike previous upgrades, upgrading from 3.11 or prior versions to 3.12 or higher WILL require ALL hardware extensions, components, and add-ons to be updated for compliance with the new version of the software.*
- 4.1.5 After upgrading Apteryx Imaging and related applications, components, and add-ons, the software automatically check the computer environment to try to detect incompatible DLLs and extension components when the software is launched. IF any are detected, the following dialog box will display indicating which components are conflicting.



- Make note of the conflicting components and then click on **No! Close the program**.
- Repeat Steps 2 and 3 to find the applicable updaters and upgrade each incompatible component specified.

5 GETTING STARTED: XRAYVISION

5.1 Overview

This section provides a brief explanation of how to get started using XrayVision. More extensive help is available in the help file installed with the software. To access the installed help file, go to Windows **Start > Programs** menu and find **Apteryx Imaging** menu group.

An extensive user manual is also available online at the <http://www.apteryxware.com/e-docs/>.

For troubleshooting tips and answers to frequently asked questions, search the knowledgebase online at <http://apteryxware.com/dental/knowledgebase/>.

If desired, training is also available through your Dealer or Apteryx, Inc.

5.2 Getting Started: Adding Patients

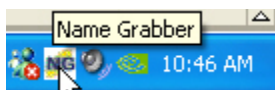
Patient information can be added manually or from directly from your Patient Management application by using Name Grabber.

5.2.1 Manually adding a patient in XrayVision

- 5.2.1.1 Double-click on the XrayVision icon on the desktop to launch the application.
- 5.2.1.2 Click on the **Add Patient** button on the toolbar, enter all the patient information into the text boxes and then click on the **Add** button.

5.2.2 Adding a Patient via Name Grabber

Name Grabber and Data Drills are used in tandem to grab patient information from other applications and automatically open or create the patient in XrayVision. If it is running, an **NG** icon will display in the System Tray as shown below.



- 5.2.2.1 Open the Practice Management screen that contains the patient information and then click on the **NG** icon in the System Tray once with the left-mouse button.

 The Patient Information screen that NameGrabber grabs information from varies from one PM application to another. If needed, contact Apteryx Technical Support for assistance.

- 5.2.2.2 Once a name has been detected, NameGrabber launches the imaging application and a patient record is automatically created or opened (if it already existed).

5.3 Getting Started: Setting up Your Imaging Device

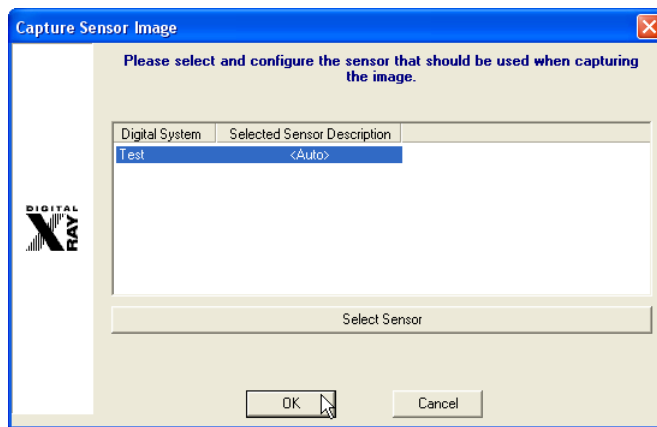
XrayVision has the capability to capture images from a wide range of imaging sources. Please refer to product details on <http://www.apteryx.com/>.

5.3.1 Intraoral Digital X-ray Sensors

- 5.3.1.1 Attach the imaging device(s) to the computer and install the hardware drivers following the manufacturer's instructions.
- 5.3.1.2 Install/update the required device extension(s) for your hardware from Apteryx's update website. Refer to [Accessing and Running Upgraders](#) for details.
- 5.3.1.3 Double-click on the XrayVision icon on the desktop to launch the application and test the acquisition of an image.
- 5.3.1.4 Depending on the manufacturer's specifications, a configuration file (calibration, correction, or Gain file) may need to be added for the digital x-ray system.
 - Select **Tools > Sensor Utilities > Add X-ray Sensor**.
 - If more than one sensor extension was added in Step 2 a 'Select Sensor Device' dialog box will display. Click on the appropriate sensor extension and click **OK**.
 - If the selected sensor requires a configuration file, the software will prompt the user to locate it. Follow the prompts to locate the file (on the computer, network, or other media such as a CD-Rom drive) and add the configuration file.
 - If the selected sensor does not require a configuration file, a dialog box will display to notify the user that one is not required.

5.3.1.5 Open a patient record and select the **Capture Sensor Image** icon () on the toolbar.

5.3.1.6 The 'Capture Sensor Image' selection screen displays. Select the applicable sensor and then click on **OK**.




- 5.3.1.7 A 'Sensor Tooth Selection' screen will appear. Select the appropriate teeth to associate to the image. Click **OK** to continue.
- 5.3.1.8 A sensor indicator will display and turn green when the sensor is ready to capture an image.
- 5.3.1.9 Proceed to shoot the x-ray *following safety guidelines provided by the hardware manufacturer*. The new image from the sensor will soon appear on the application's desktop.

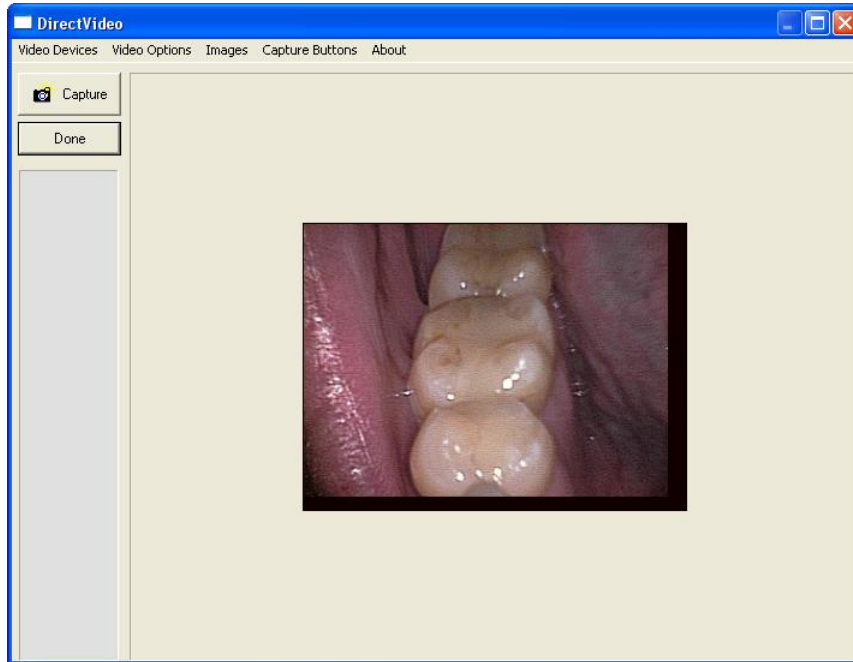
5.3.2 Analog Intraoral Camera Devices; Digital Intraoral Cameras via USB or FireWire; Digital Video Cameras

- 5.3.2.1 Attach hardware to appropriate port (USB, Firewire, or video capture).
- 5.3.2.2 Install/update the proper extension for your device. (Refer to [Accessing and Running Upgraders](#) for details.):
 - **DirectVideo** captures video via DirectX / DirectShow / WDM video sources. This is the recommended video capture selection for Windows, XP, Vista, and 7 operating systems.
 - **Real-Time Video** captures video via Video-For-Windows (VFW) video sources. This is an older method of video capture and is not typically supported by newer generation video capture cards. Some of Hauppauge's newer video capture cards are VFW and require the Real-Time Video extension.
- 5.3.2.3 Double-click on the XrayVision icon on the desktop to launch the application and test the acquisition of an image.

5.3.2.4 By default, the DirectVideo Extension is enabled. To change to the Real-Time Video Extension for older, analog cameras, click on **Tools > Select Video Device Type** and enable the Real Time Video option on the 'Video Source' dialog box.


5.3.2.5 Open a patient record and select the **Capture Video Image** icon () on the toolbar. Depending on the selection above, the 'DirectVideo' or 'Real Time Video' interface will display.

 Note that a live video feed displays on the 'DirectVideo' or 'Real Time Video' interface.



5.3.2.6 Capture the image using one of the following methods:

- Press the button on the camera

 DirectVideo comes equipped with different capture button configurations designed to interact with various cameras. Select **Camera Buttons** from the menu to change the configuration to one that applies if the camera button does not trigger the capture.

- Step on the foot pedal (if configured)
- Select the **Capture** button on the 'DirectVideo' interface
- Press the space bar on the keyboard

5.3.2.7 Once captured, a thumbnail of the image will appear on the interface. When finished, click the **Done** button. The image will then be acquired and displayed in the imaging application.

5.3.3 Digital Pan/Ceph Imaging Systems; Phosphor Plate Devices; Transparency/ Flatbed scanners and other TWAIN devices

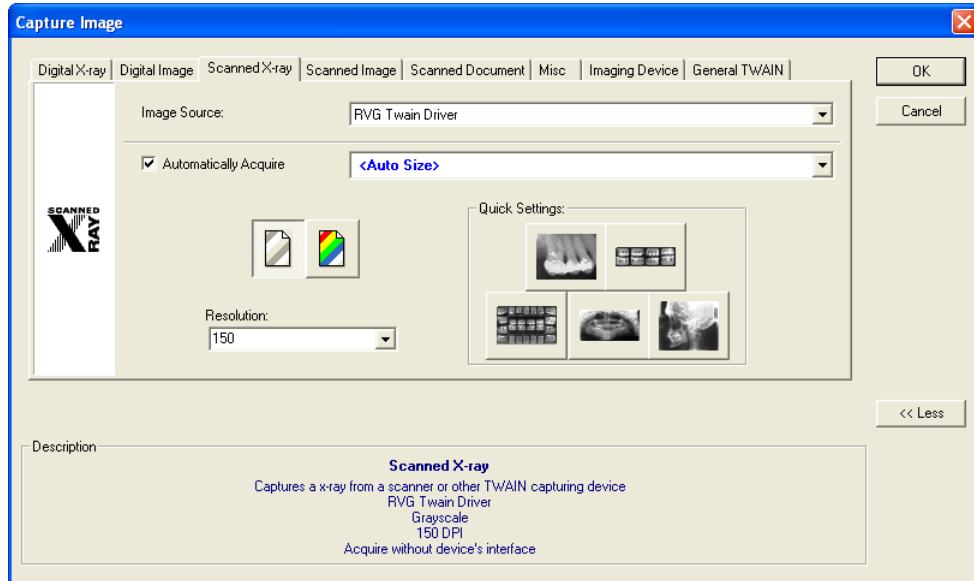
5.3.3.1 Attach the imaging device(s) to the computer and install the hardware drivers following the manufacturer's instructions. *Transparency and Flatbed Scanners, and other TWAIN devices require the installation of the manufacturer's TWAIN driver.*

5.3.3.2 **Digital Pan/Ceph Imaging Systems or Phosphor Plate Devices Only:** Install/update the required device extension(s) for your hardware from Apteryx's update website. Refer to [Accessing and Running Upgraders](#) for details.

5.3.3.3 Double-click on the XrayVision icon on the desktop to launch the application and test the acquisition of an image.

5.3.3.4 Open a patient record and select the **Capture Single Image** icon () on the toolbar. The 'Capture Image' device selection screen will display.

- 5.3.3.5 The imaging device's extension will be available for selection under all tabs except *Digital X-ray*. If a TWAIN driver was installed, it will be available for selection under all available tabs except *Digital X-ray* and *Imaging Device*.



- 5.3.3.6 Depending on the media being acquired, select the appropriate tab so that the captured image is appropriately categorized for identity. For example, if scanning from a phosphor plate scanner, select the phosphor plate's imaging extension from the 'Image Source' drop-down list on the *Scanned X-ray* tab; if scanning in a document from a flatbed scanner, make the TWAIN selection from the 'Scanned Document' tab.
- 5.3.3.7 Click **OK** and follow any additional prompts to capture an image. When complete the image will be acquired and displayed on the application desktop.

6 GETTING STARTED: XVLITE

6.1 Overview

This section provides a brief explanation of how to get started using XVLite. More extensive help is available in the help file installed with the software. To access the installed help file, go to Windows **Start > Programs** menu and find **Apteryx Imaging** menu group.

For troubleshooting tips and answers to frequently asked questions, search the knowledgebase online at <http://apteryxware.com/dental/knowledgebase/>.

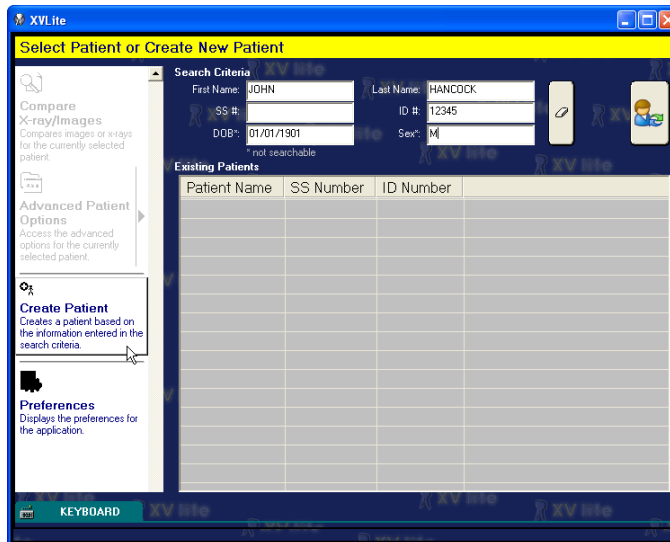
If desired, training is also available through your Dealer or Apteryx, Inc.

6.2 Getting Started: Adding Patients

Patient information can be added manually or from directly from your Patient Management application by using Name Grabber.

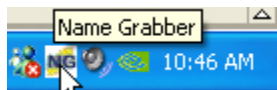
6.2.1 Manually Adding a Patient in XVLite

- 6.2.1.1 Double-click on the XVLite icon on the desktop to launch the application.
- 6.2.1.2 Enter the patient information into the 'Search Criteria' fields and then click on the **Create Patient** button.



6.2.2 Adding a Patient via Name Grabber

Name Grabber and Data Drills are used in tandem to grab patient information from other applications and automatically open or create the patient in XVLite. If it is running, an **NG** icon will display in the System Tray as shown below.



- 6.2.2.1 By default Name Grabber is configured to launch XrayVision. To change the launched application to XVLite right click on NG icon and select **Options** from the popup menu. Modify the 'Application To Launch' path and change it to point to the application file "XVLite.exe".
- 6.2.2.2 Open the Practice Management screen that contains the patient information and then click on the **NG** icon in the System Tray once with the left-mouse button.

i The Patient Information screen that NameGrabber grabs information from varies from one PM application to another. If needed, contact Apteryx Technical Support for assistance.

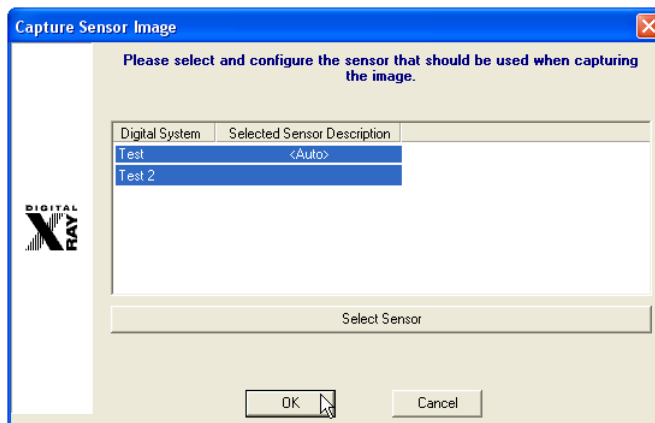
- 6.2.2.3 Once a name has been detected, NameGrabber launches the imaging application and a patient record is automatically created or selected on the Patient List (if it already existed).

6.3 Getting Started: Setting up Your Imaging Device

XVLite has the capability to capture images from a wide range of imaging sources. Please refer to product details on <http://www.apteryx.com/>.

6.3.1 Intraoral Digital X-ray Sensors

- 6.3.1.1 Attach the imaging device(s) to the computer and install the hardware drivers following the manufacturer's instructions.
- 6.3.1.2 Install/update the required device extension(s) for your hardware from Apteryx's update website. Refer to [Accessing and Running Upgraders](#) for details.
- 6.3.1.3 Double-click on the XVLite icon on the desktop to launch the application and test the acquisition of an image.
- 6.3.1.4 Depending on the manufacturer's specifications, a configuration file (calibration, correction, or Gain file) may need to be added for the digital x-ray system.
- Select the **Preferences** on the main screen. Click on **Sensor** on the 'Preferences' screen and then select the **Add Sensor** button.
 - If more than one sensor extension was added in Step 2 a 'Select Sensor Device' dialog box will display. Click on the appropriate sensor extension and click **OK**.
 - If the selected sensor requires a configuration file, the software will prompt the user to locate it. Follow the prompts to locate the (on the computer, network, or other media such as a CD-Rom drive) and add the configuration file.
- 6.3.1.5 If the selected sensor does not require a configuration file, a dialog box will display to notify the user that one is not required. Select a patient record on the Patient List and click on the **Take X-Ray** button.
- 6.3.1.6 Select the appropriate teeth to associate to the image.
- 6.3.1.7 If more than one sensor extension has been added to the installation, select **Switch Digital X-Ray Unit or Sensor** and proceed to select the applicable sensor from the 'Capture Sensor Image' selection screen and then click on **OK**.



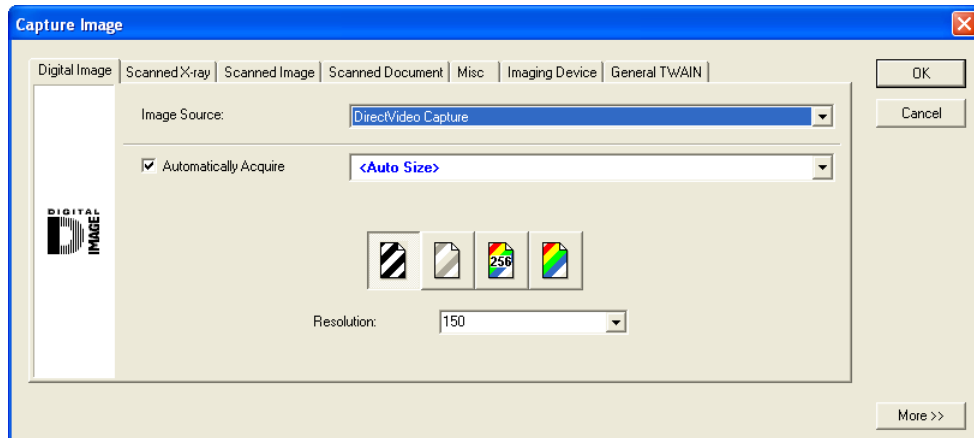
- 6.3.1.8 Select the **Activate Selected Unit** button. A sensor indicator will display and turn green when the sensor is ready to capture an image.
- 6.3.1.9 Proceed to shoot the x-ray *following any safety guidelines provided by the hardware manufacturer*. The new image from the sensor will soon appear on the application's desktop.

6.3.2 Analog Intraoral Camera Devices; Digital Intraoral Cameras via USB or FireWire; Digital Video Cameras

- 6.3.2.1 Attach hardware to appropriate port (USB, Firewire, or video capture).
- 6.3.2.2 Install/update the proper extension for your device. (Refer to [Accessing and Running Upgraders](#) for details.):

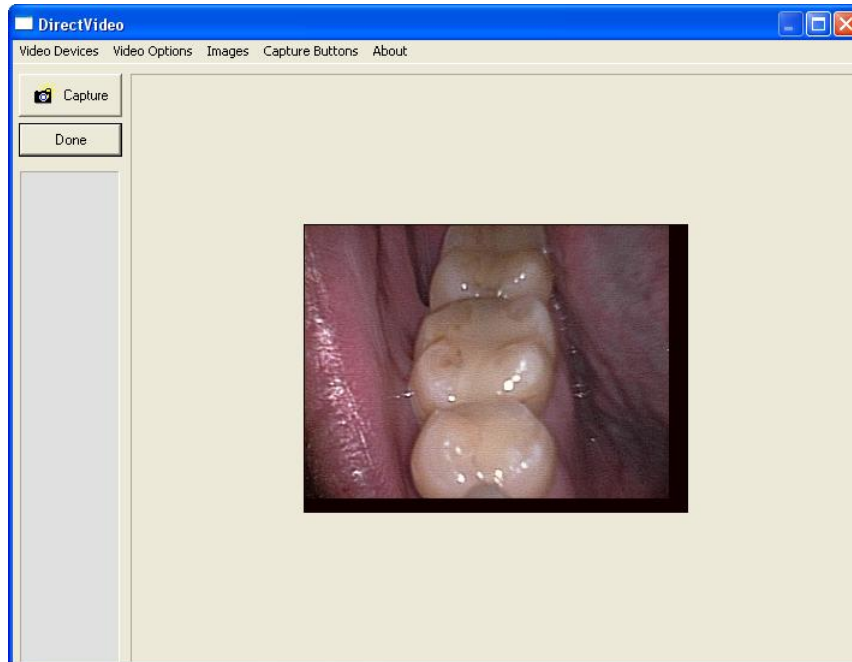
- **DirectVideo** captures video via DirectX / DirectShow / WDM video sources. This is the recommended video capture selection for Windows, XP, Vista, and 7 operating systems.
- **Real-Time Video** captures video via Video-For-Windows (VFW) video sources. This is an older method of video capture and is not typically supported by newer generation video capture cards. Some of Hauppauge's newer video capture cards are VFW and require the Real-Time Video extension.

- 6.3.2.3 Double-click on the XVLite icon on the desktop to launch the application and test the acquisition of an image.
- 6.3.2.4 Select a patient record on the Patient List and click on the **Acquire Image** button and then select the appropriate teeth to associate to the image.
- 6.3.2.5 The 'Capture Image' device selection screen will display. Select the *Digital Image* tab; select **DirectVideo Capture OR Real Time Video Capture** as the 'Image Source'; and then click **OK**. The 'DirectVideo' interface will display.



- 6.3.2.6 Depending on the selection above, the 'DirectVideo' or 'Real Time Video' interface will display.

i Note that a live video feed displays on the 'DirectVideo' or 'Real Time Video' interface.



- 6.3.2.7 Capture the image using one of the following methods:
- Press the button on the camera

i DirectVideo comes equipped with different capture button configurations designed to interact with various cameras. Select **Camera Buttons** from the menu to change the configuration to one that applies if the camera button does not trigger the capture.

- Step on the foot pedal (if configured).
- Select the **Capture** button on the 'DirectVideo' interface.
- Press the space bar on the keyboard.

6.3.2.8 Once captured, a thumbnail of the image will appear on the interface. When finished, click the **Done** button. The image will then be acquired and displayed in the application.

6.3.3 Digital Pan/Ceph Imaging Systems; Phosphor Plate Devices; Transparency/Flatbed scanners and other TWAIN devices

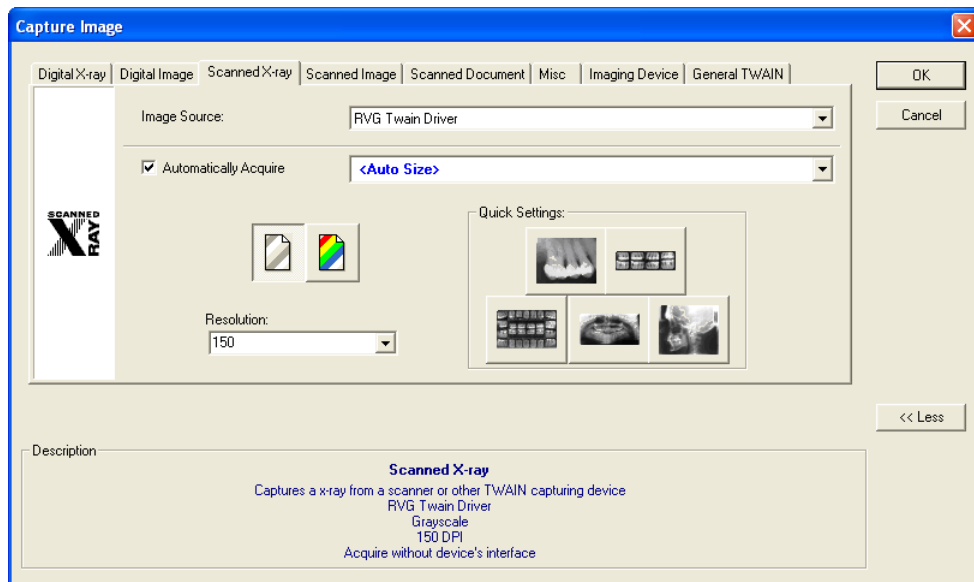
6.3.3.1 Attach the imaging device(s) to the computer and install the hardware drivers following the manufacturer's instructions. *Transparency and Flatbed Scanners, and other TWAIN devices require the installation of the manufacturer's TWAIN driver.*

6.3.3.2 **Digital Pan/Ceph Imaging Systems or Phosphor Plate Devices Only:** Install/update the required device extension(s) for your hardware from Apteryx's update website. Refer to [Accessing and Running Upgraders](#) for details.

6.3.3.3 Double-click on the XVLite icon on the desktop to launch the application and test the acquisition of an image.

6.3.3.4 Select a patient record on the Patient List and click on the **Acquire Image** button and then select the appropriate teeth to associate to the image. The 'Capture Image' device selection screen will display.

6.3.3.5 The imaging device's extension will be available for selection under all tabs except *Digital X-ray*. The installed TWAIN driver will be available for selection under all available tabs except *Digital X-ray* and *Imaging Device*.



6.3.3.6 Depending on the media being acquired, select the appropriate tab so that the captured image is appropriately categorized for identity. For example, if scanning from a phosphor plate scanner, select the phosphor plate's imaging extension from the 'Image Source' drop-down list on the *Scanned X-ray* tab; if scanning in a document from a flatbed scanner, make the TWAIN selection from the *Scanned Document* tab.

6.3.3.7 Click **OK** and follow any additional prompts to capture an image. When complete the image will be acquired and displayed in the application.

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