SCAN▸X

ScanX© Duo Touch

PN - J1200

Image Plate Scanners

Software Installation and Configuration Guide

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FOREWORD

General
The instructions provided are limited to the integration of the ScanX© Duo Touch image plate scanners. The devices are referred to as ScanX in this manual. All devices work using TWAIN. In addition, various third-party software packages support Direct Integration. This document does not provide detailed installation or operation instructions for the third-party imaging management software. Therefore, the user must refer to the individual software manufacturer user documentation for all information specific to installing the application and its subsequent detailed operation.

Pre-Installation Check
Refer to section 1 and make sure that the computer system being used has the requirements necessary to operate ScanX.

Device Setup
Perform the following to setup and configure ScanX. Install the ScanX software from the Software and Manual disc provided with the system. This allows full device functional operation via the TWAIN interface or directly with the third-party imaging management application via Direct Integration.

1. Refer to section 2.1 for initial computer/device setup and to install the ScanX software provided on the Software and Manual disc included with each device.
2. Refer to section 2.2 to connect the ScanX to the computer.
3. Refer to section 3 to register the device in VisionX or section 4 to register the device in VistaConfig.
4. Refer to section 5 and perform the procedure for integration with the authorized third-party imaging management applications listed.

Disclaimers:
The procedures provided in this document are limited to the specific revision or version of the third-party imaging management software listed.

If problems occur due to changes of the application revision or version, then refer to the latest revision of this document located at www.airtechniques.com.

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Third-Party Imaging Management Software

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Important: The procedures provided in this document were successfully employed using the specific revision or version of the imaging management software as listed. Refer to the latest version of this document located on the website, www.airtechniques.com if revisions or versions change.

1. Computer Requirements

Important: To operate ScanX, it must be connected to a compliant computer system supplied by the customer. In addition, authorized third-party imaging management software, purchased from your dealer or other company, must be installed on the computer in order to operate ScanX.

Computer System Required Components

The minimum computer system, computer and monitor, requirements necessary to operate ScanX are listed below.

Operating System:	Microsoft Windows 10 Professional or Enterprise for an Intel 64-bit extended (x64) processor or Microsoft Windows 11 Professional or Enterprise for an Intel 64-bit extended (x64) processor.
CPU/Speed:	Pentium-4, 1.4 GHz or faster required. Celeron and Duron are not supported.
Hard Drive:	At least 10 GB of free space is required to install the software. At least 200 MB of free space is required to start scanning.
System RAM:	1 GB required.
Image Management Software:	DBSWIN, VisionX, or authorized compatible or TWAIN compliant third-party software (not included with product).
Interface:	Ethernet ≥ 100 Mbit/s WLAN IEEE 802.11b/g with WPA and WPA2 encryption.

Protection from Cybersecurity Threats

The unit is to be connected to a computer that can be connected to the Internet. Therefore, the system needs to be protected from threats from the Internet.

a. Use antivirus software and update it regularly. Look for evidence of possible virus infection and, if applicable, check with the antivirus software and remove the virus.

b. Perform regular data backups.

c. Provide access to units only to trustworthy users, e.g., by means of user name and password.

d. Make sure that only trustworthy contents are downloaded. Only install manufacturer-authenticated software and firmware updates.

2. Device Setup

Important: Before the device will operate properly, ScanX software must be installed.

The following section provides instructions to setup and configure ScanX to operate as a TWAIN device or through Direct Integration with your third-party software by installing the ScanX software. Also provided are instructions to connect the ScanX to the computer through either Ethernet or Wi-Fi.

NOTE: ScanX is optimized for operation using VisionX and VisionX Connect. You can download and install the latest version of VisionX from www.airtechniques.com.

2.1 ScanX Software Installation. Normally, a menu appears when the CD is inserted into the optical drive for the first time. From the menu, select **Install the ScanX Software**.

The installer can also be run directly from the root directory of the CD (typically **D:\ScanXUnifiedInstaller.exe**).

a. If VisionX is installed, the installer will patch the installation to also support Direct Integration through VisionX Connect. As a last step, the installer can launch the ScanX Select tool to confirm the correct scanner has been registered.

b. If DBSWIN or VistaEasy is already installed, the installer will patch the installation to also support Direct Integration. As a last step, the installer can launch VistaConfig to register the ScanX.

c. If none are detected, a limited version of VistaEasy will be installed that just supports ScanX with Direct Integration and TWAIN. As a last step, the installer can launch VistaConfig to register the ScanX.

2.2 Connecting the ScanX to the Computer. The ScanX is configured from the factory to connect to the computer using Ethernet. It can also be configured to connected through a wireless network instead. Follow the procedure below to change the configuration.

1. On the scanner's screen press **Setting** → **Access level** → **Administrator** → **OK**.
2. Press **System Settings** → **Network** → **Interface**.
3. Use the arrows to select **LAN** or **WLAN** and press **OK**.
4. For a wireless connection, press **WLAN** at the bottom, left corner of the screen. Press **SEARCH** and select your wireless network from the list shown. Press **Password**, enter the wireless network's password, and then press the check button.
5. Press **OK** → **Return** → **Return** to return to the home screen.
6. For a wireless connection, wait for the Wi-Fi symbol to turn black.

By default, the ScanX will make use of your network's DHCP server. If your network does not have a DHCP server or if you have an unusual network, you may need to configure some of the network settings manually; refer to the ScanX instruction manual.

Once connected to the network, the ScanX will display the assigned IP address on its screen.

3. VisionX Connect

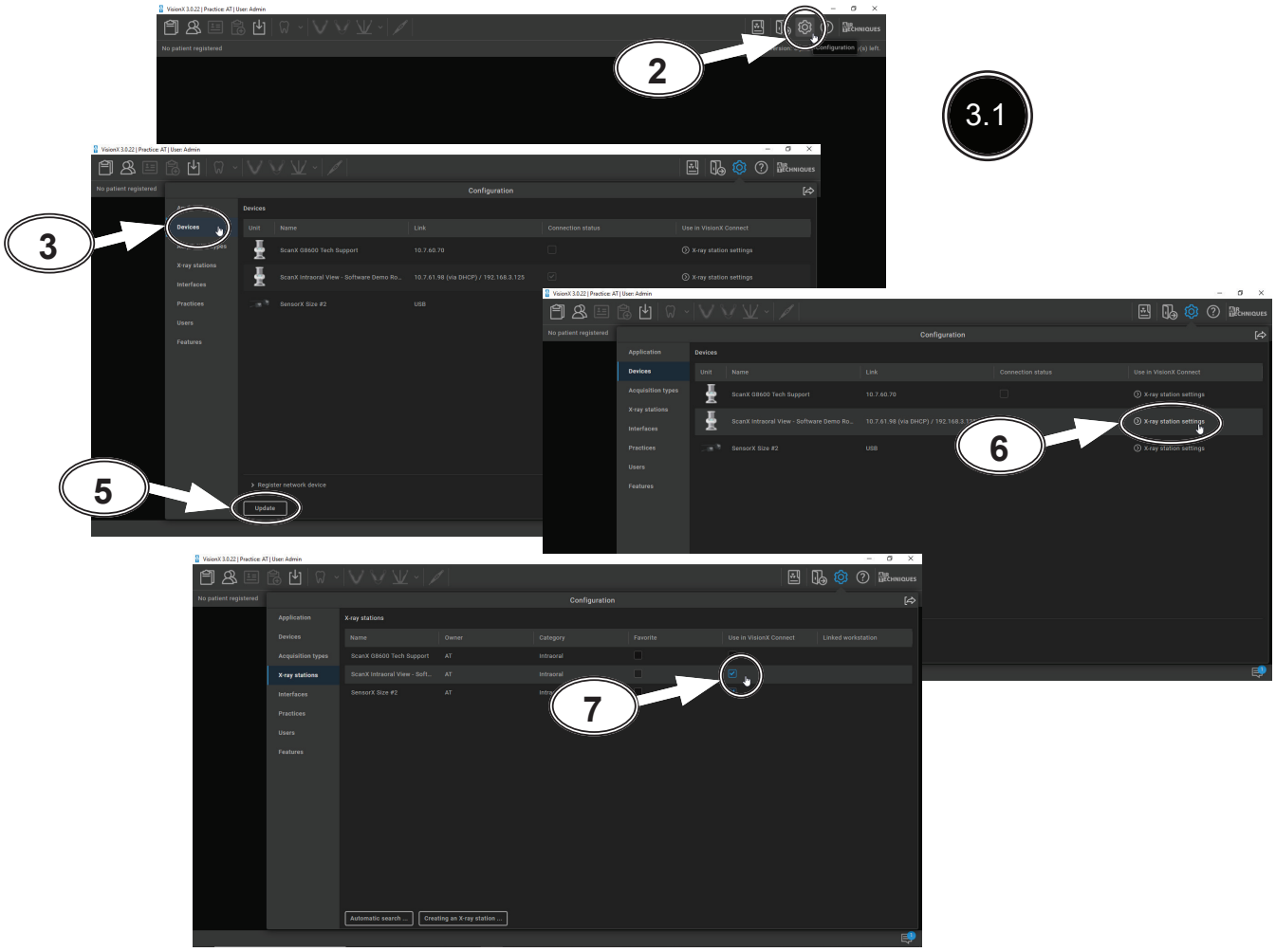
Important: Refer to the VisionX instruction manual for more information on how to configure devices and use the VisionX Connect TWAIN Interface.

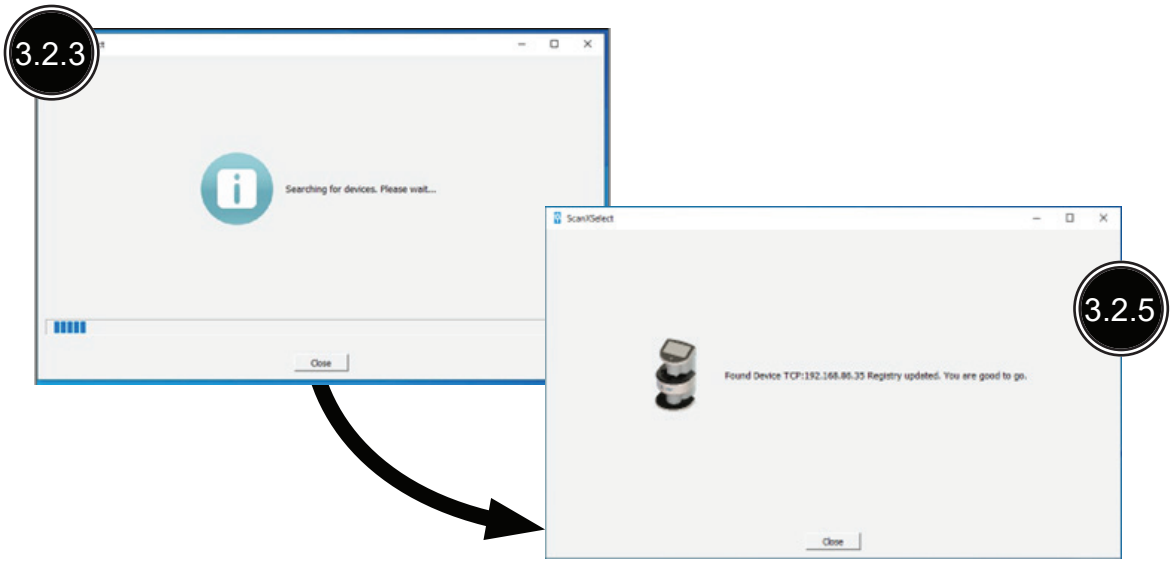
3.1. Registering the ScanX in VisionX Connect.

1. Start VisionX and login, if necessary.
2. Press the Configuration button.
3. Select the Devices tab.
4. Locate the ScanX in the list of Devices.
5. If the ScanX is not found, press the Update button. If the ScanX is still not located, select “Register network device” and enter the IP address of the ScanX.
6. Once the ScanX appears in the list, press “X-ray station settings” to the right of it.
7. Locate the ScanX in the list of X-ray stations. To the right of the device, check the “Use in VisionX Connect” box.
8. Close or minimize VisionX.

3.2. Selecting the device for Direct Integration. Because multiple devices can be selected for VisionX Connect, an additional step is required with Direct Integration to ensure the correct device is used.

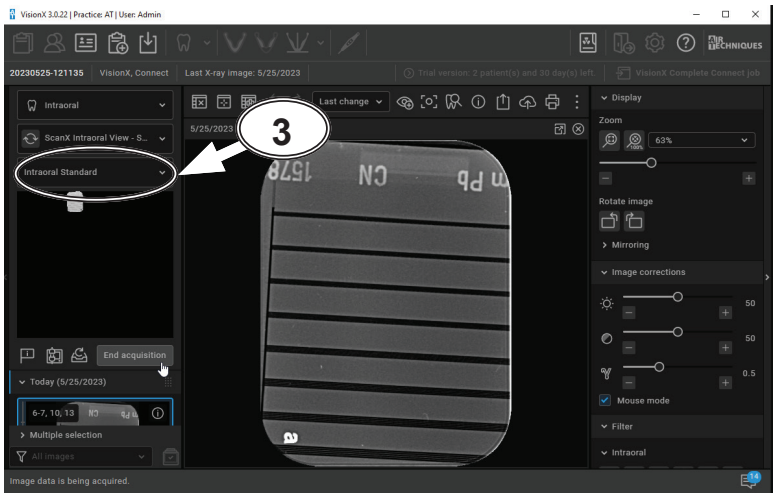
1. Click the Windows Start button and select the Air Techniques folder.
2. Select the “ScanX Select” program and observe that the window opens.
3. The program searches for available and supported devices that have been enable for VisionX Connect.
4. If more than one device was selected for VisionX Connect, the program displays the list of supported devices. Select the correct device.
5. Observe that the correct device is displayed.
6. Close the ScanX Select program.

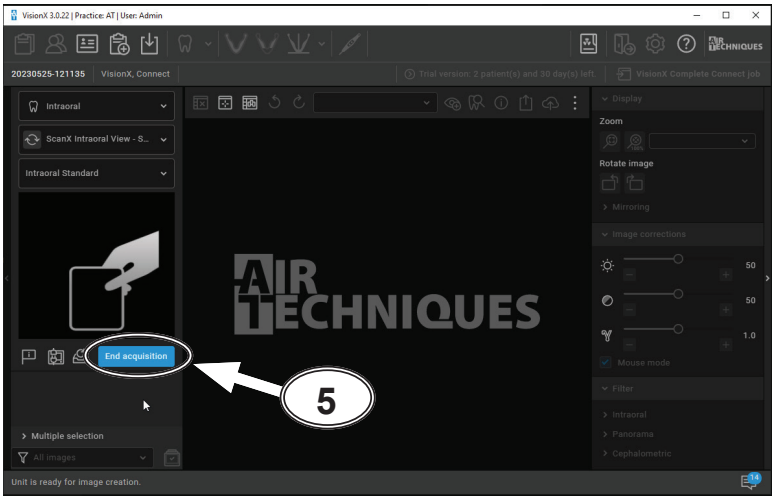

2
3.1
3
Configuration
Devices
X-ray stations
Interfaces
Practices
Users
Features
5
Update
6
Application
Acquisition types
7
Automatic search ...
Creating an X-ray station ...

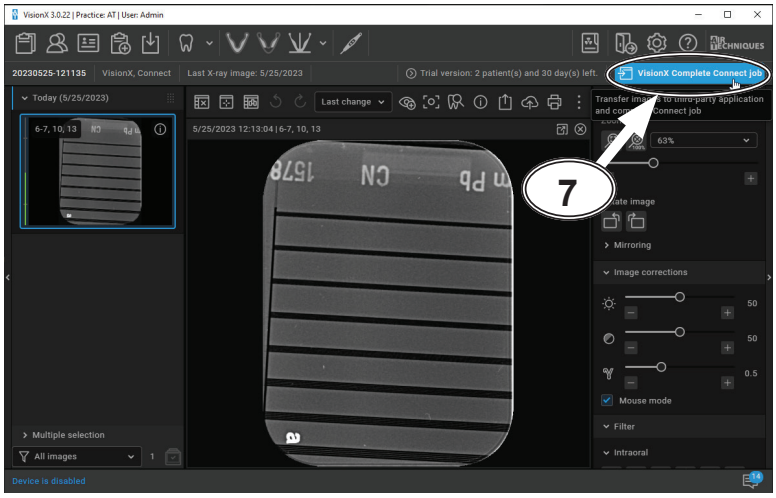

3.2.3
Searching for devices. Please wait...
Close
ScanXSelect
3.2.5
Found Device TCP:192.168.86.35 Registry updated. You are good to go.
Close

3.3. Using the VisionX Connect TWAIN Interface. VisionX Connect provides a TWAIN interface that can be used with the third-party applications covered in this document. Once the third-party application is set up to use the TWAIN interface (See section 5.), image acquisition, processing, and import is done via VisionX.

1. In the third-party application, start an acquisition from the desired TWAIN device.
2. Observe that VisionX opens.
3. In VisionX, select the desired scan mode.
4. Scan the plates and observe the images appearing in VisionX.
5. Once all plates have been scanned and the images have appeared in VisionX, press the “End acquisition” button.
6. If necessary, use the tools available in VisionX to adjust or rotate the images.
7. Press the “VisionX Complete Connect job” button at top right conner of the screen.
8. Observe that the image(s) are transferred to third-party software.


VisionX 3.0.22 | Practice: AT | User: Admin
20230525-121135
VisionX, Connect
Last X-ray image: 5/25/2023
Intraoral
ScanX Intraoral View - S...
Intraoral Standard
3
End acquisition
Today (5/25/2023)
Multiple selection
All images
Image data is being acquired.
Display
Zoom
Rotate image
Mirroring
Image corrections
Mouse mode
Filter
Intraoral


VisionX 3.0.22 | Practice: AT | User: Admin
20230525-121135
VisionX, Connect
Intraoral
ScanX Intraoral View - S...
Intraoral Standard
End acquisition
5
Multiple selection
All images
Unit is ready for image creation.
Zoom
Rotate image
Mirroring
Image corrections
Mouse mode
Filter
Intraoral
Panorama
Cephalometric


VisionX 3.0.22 | Practice: AT | User: Admin
20230525-121135
VisionX, Connect
Last X-ray image: 5/25/2023
VisionX Complete Connect job
7
Today (5/25/2023)
Multiple selection
All images
Device is disabled
Mirroring
Image corrections
Mouse mode
Filter
Intraoral

4. VistaEasy

Before the ScanX can be used, it must be connected to the same network as the computer and then registered with VistaConfig. Refer to section 2.2 “Connecting the ScanX to the Computer” for details about how to connect a ScanX device to computer. Before using the TWAIN Interface, VistaConfig needs to have certain configuration settings adjusted to ensure smooth transfer of all images.

4.1 Registering the device in VistaConfig. Once the ScanX software is installed, the ScanX must be registered with VistaConfig to allow the device to work. Register the device by performing the following steps.

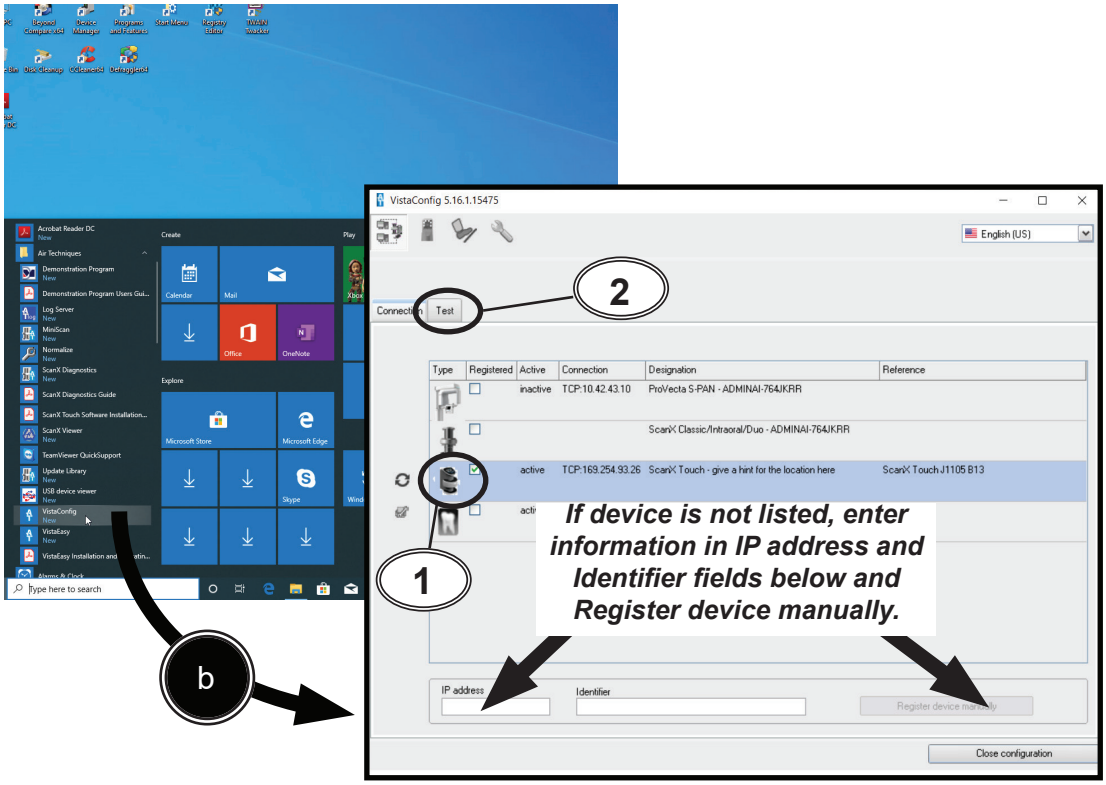
a. Click the Windows Start button and select the Air Techniques folder.

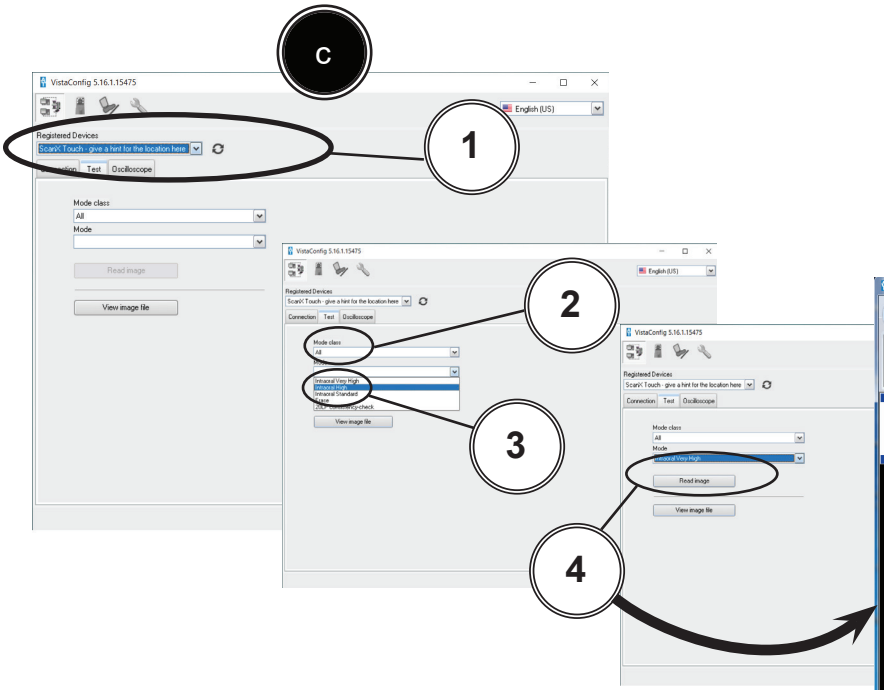
b. Click VistaConfig and observe that the VistaConfig window opens.

   1. Select the appropriate ScanX (see note) as the device to be registered within VistaConfig by checking the corresponding check box.
   2. Select the test tab.

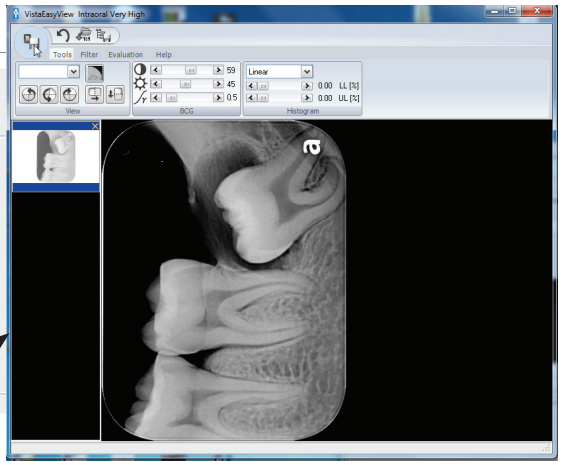
c. Perform the following from the Test tab.

   1. Select the appropriate ScanX from the Registered Devices drop down menu.
   2. Select ***All*** from the Mode class drop down menu.
   3. Select ***Intraoral Very High*** from the Mode drop down menu.
   4. Select the ***Read image*** button and observe that the scan window opens and displays a preview during image acquisition. Observe that the VistaEasy View main image window opens once the image is acquired. Successful image acquisition shows the ScanX has been properly registered.



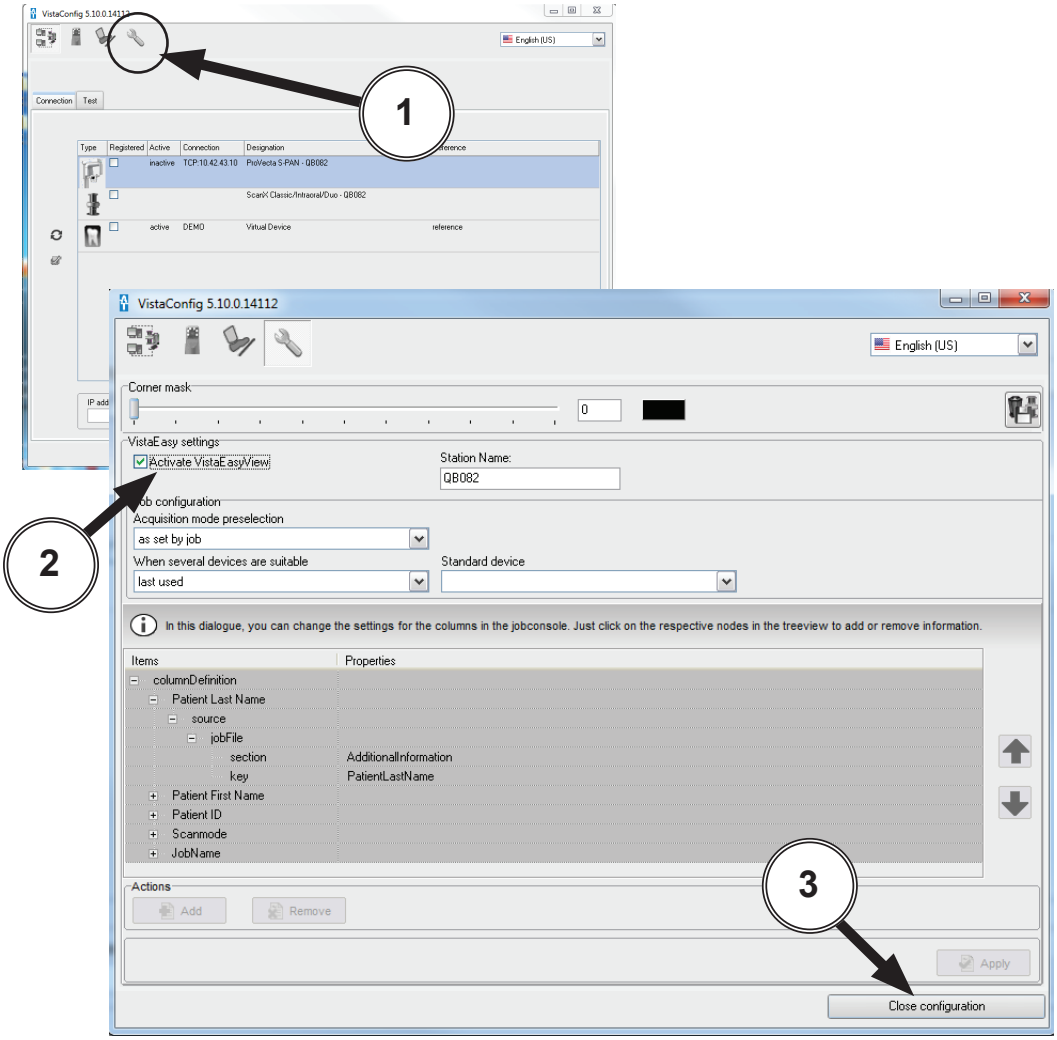


Successful image acquisition shows successful device registration with program.



4.2 Configuring VistaEasy. To ensure images are always properly transferred using TWAIN, confirm that VistaEasy View is enabled in VistaConfig.

1. Click the Wrench button and observe that the VistaEasy shows the VistaEasy settings.
2. Select the Activate VistaEasy View option and make sure that a check appears in the check box.
3. Click Close configuration to return to the desktop.



4.3 Using the VistaEasy TWAIN Interface. VistaEasy provides the TWAIN interface for all the third-party applications covered in this document. Once the third-party application is set up to use the TWAIN interface (See section 5.), image import processing is done via the VistaEasy View window shown below.

Quick access toolbar: Allows management of captured images selected in the image preview bar. See descriptions below.

Tool and filter controls: Allows manipulation of captured image selected in the image preview bar. Refer to descriptions below.

Image preview bar: Shows the thumbnail of captured image and allows images to be marked for the transfer. Individual images can also be deleted from the image preview bar.

Main image window: Previews captured image selected in the image preview bar.

The settings that were made are saved directly in the scan mode. The saved changes are then always applied when this scan mode is used.

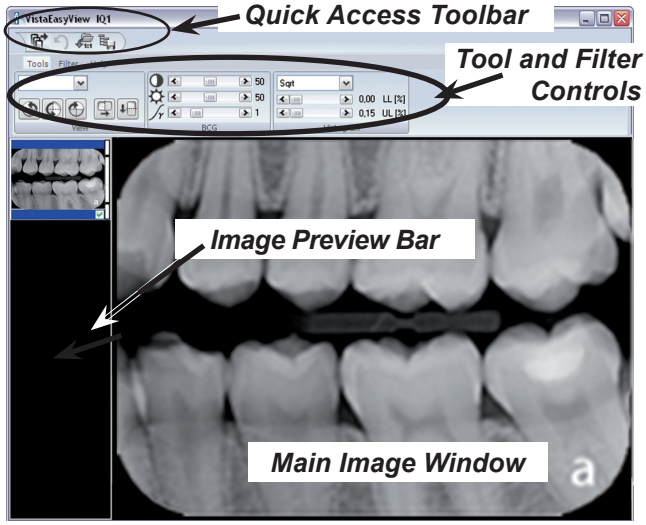
Quick Access Toolbar

Send images: Sends selected images marked with a check mark to the third-party application.

Undo: Reverts the last step to its previous state.

Load original image: Loads the original status of the image.

Save mode configuration: Saves tool and filter settings (BCG, filter values and histogram optimization) that were made.



Filter settings are applied automatically by default. Since the filter applied to the image is permanent once it is sent out of VistaEasy, images must be carefully reviewed before passing to third-party software applications.

Tools and filters for image editing The tools and filters that are necessary for editing images are visible in VistaEasy View main image window.

Tool – View Controls

Increase / Decrease: Provides pull-down menu for zoom-factor selection.

Rotate image: Allows image to be turned by 90° to the left or right or by 180°.

Mirror image: Allows image to be flipped horizontally or vertically.

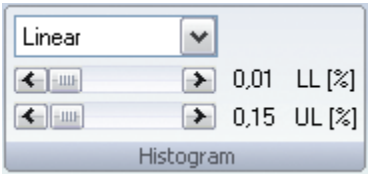
Tool – BCG Controls (Brightness, Contrast, Gamma)

Contrast: The contrast can be adjusted with the slide control.

Brightness: The brightness of the recording can be adjusted with the slide control.

Gamma: The gamma values of the recording can be adjusted with the slide control.

Tool – Histogram Control



This control allows the adjustment of grey values using histogram optimization.
The calculation of the evaluation curve can be selected from original, linear, sqrt, log, quad, S-Curve types. The lower and upper percentage limit of the grey values can also be truncated by up to10%. This eliminates the grey values in this range.

Filter – Intra, Ceph and Pano Controls

Intra, Ceph, Pano Noise Reduction: Matches outlier pixels to their neighboring pixels.

Intra, Ceph, Pano Fine: General sharpening filter which enhances structures of 2 line pairs per mm.

Ceph 1: Enhances structures of 0.75 line pairs per mm with strong attenuation of high frequencies.

Ceph PA: Enhances strongly structures of 0.5 line pairs per mm with very strong attenuation of high frequencies.

Histogram: optimization

Panorama Standard: Enhances structures of 0.25 line pairs per mm with strong attenuation of high frequencies.

5.1. Apteryx Setup for ScanX.

The following provides setup instructions for **Apteryx** imaging software, XrayVision Version 4. This software allows ScanX devices to acquire images via both TWAIN and Direct Integration.

Important: In order for Direct Integration to work, it is necessary to make sure that the ScanX plug-in is checked when installing Apteryx.

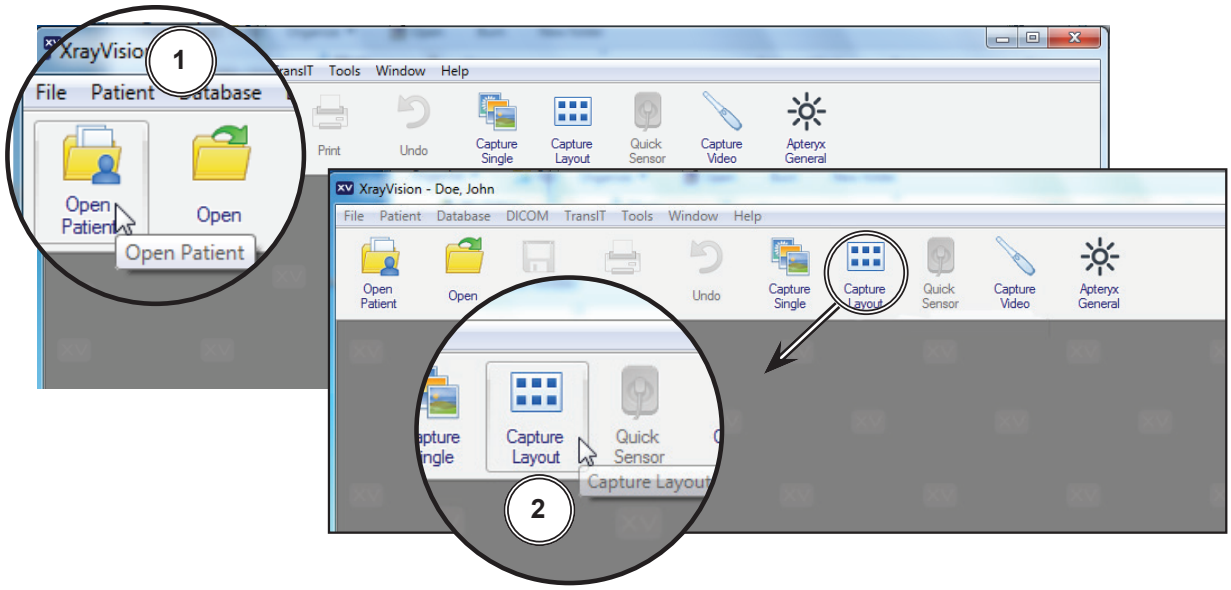
NOTE: If you installed or updated Apteryx after installing the ScanX software, please run the Update Library program that was included as part of the ScanX software.

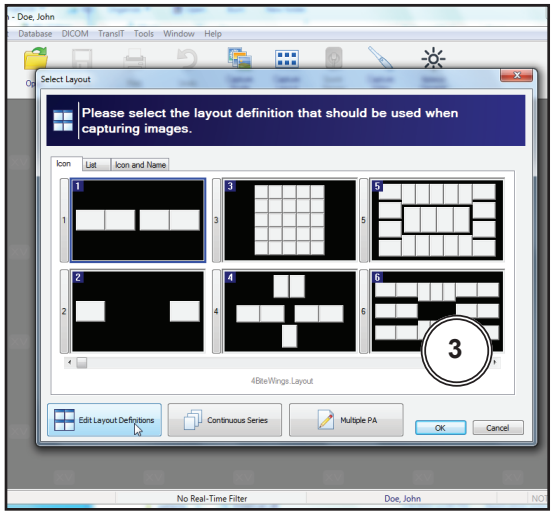
5.1a. Make sure that the ScanX software has been installed and the scanner registered. Refer to sections 2 through 4, as necessary.

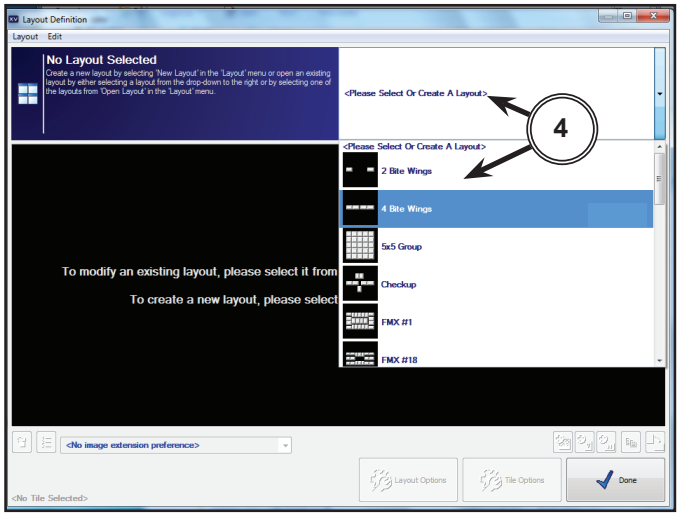
5.1b. Start **Apteryx** and observe that the main **Apteryx** window opens. Perform the steps of paragraph 5.1c when running **Apteryx** for the first time. Otherwise, proceed to paragraph 5.1d to acquire images via the installed ScanX.

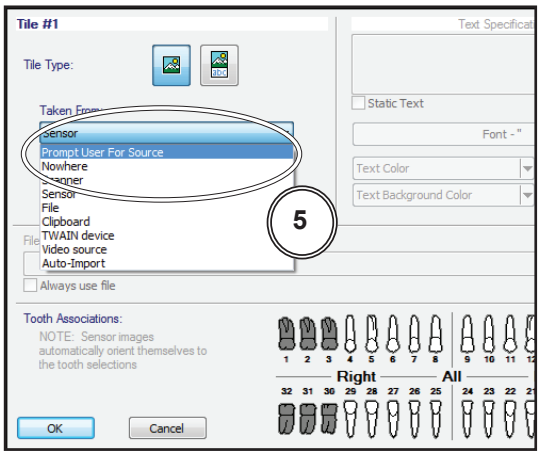
5.1c. Predefined **Apteryx** layouts and image processing source (TWAIN or iDevice) that the ScanX device uses to capture images must be selected or edited. Perform the following steps to match **Apteryx** scan layouts with **TWAIN** or **iDevice** sources as necessary.

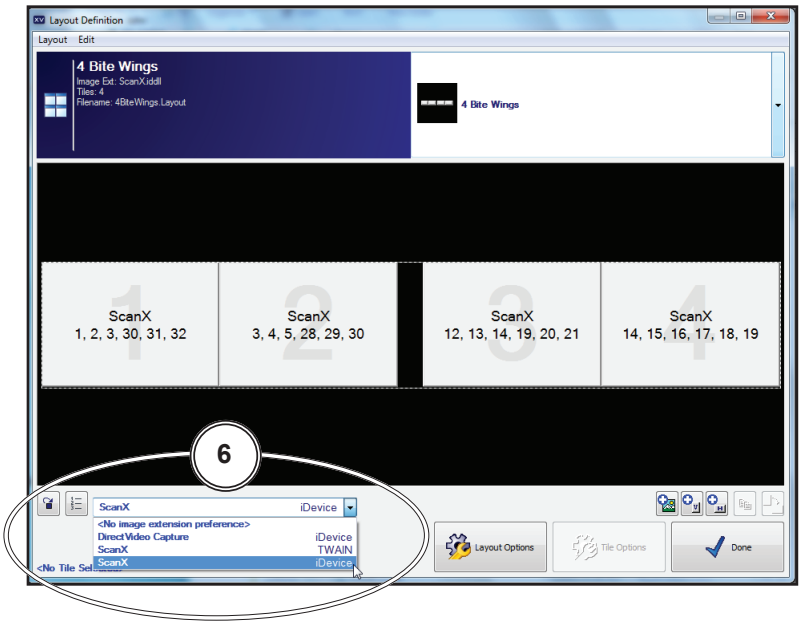
1. Click the ***Open Patient*** tab and select a patient. **Apteryx** returns to the main window.
2. Click the ***Capture Layout*** button and observe that the ***Select Layout*** window opens.
3. Choose the desired layout to edit. Select ***Edit Layout Definitions***.
4. Observe that the ***Layout Definition*** window opens and select layout from menu.
5. If necessary, change the source device selection shown on each layout tile by right clicking the tile and selecting ***Prompt User For Source*** from the ***Taken From:*** drop down list then click ***OK***. Repeat for each tile in the selected layout.
6. Continue in the ***Layout Definition*** window and select either ***ScanX TWAIN*** or ***ScanX iDevice*** option as the source for the capture device. Click the ***Done*** button to save the source selection.
7. Observe that the ***Layout Modified*** window opens. Click the ***Yes*** button to return to the **Apteryx** main window.

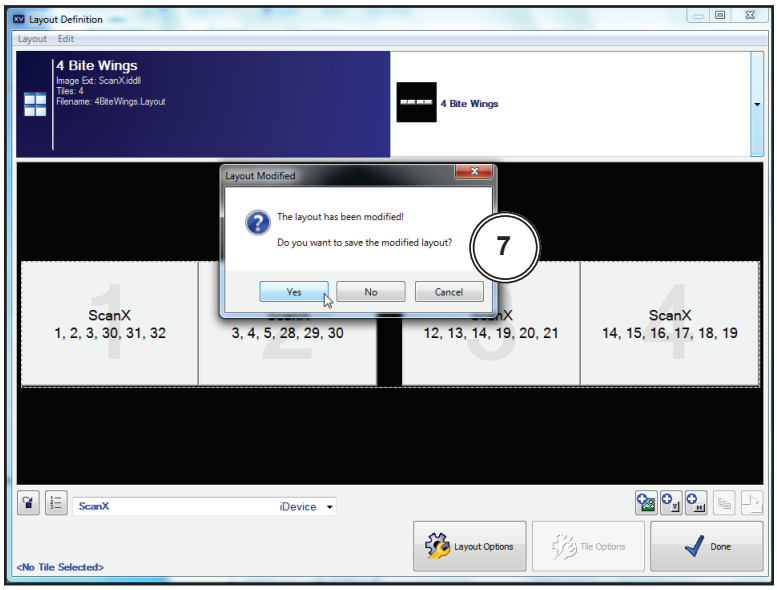



Select Layout
Please select the layout definition that should be used when capturing images.
3
Edit Layout Definitions
Continuous Series
Multiple PA
OK
Cancel


Layout Definition
No Layout Selected
<Please Select Or Create A Layout>
4
2 Bite Wings
4 Bite Wings
5x5 Group
Checkup
FMX #1
FMX #18
To modify an existing layout, please select it from
To create a new layout, please select
Layout Options
Tile Options
Done


Tile #1
Tile Type:
Taken From:
Sensor
Prompt User For Source
Nowhere
Scanner
Sensor
File
Clipboard
TWAIN device
Video source
Auto-Import
5
Static Text
Font - "
Text Color
Text Background Color
Always use file
Tooth Associations:
NOTE: Sensor images automatically orient themselves to the tooth selections
Right
All
OK
Cancel

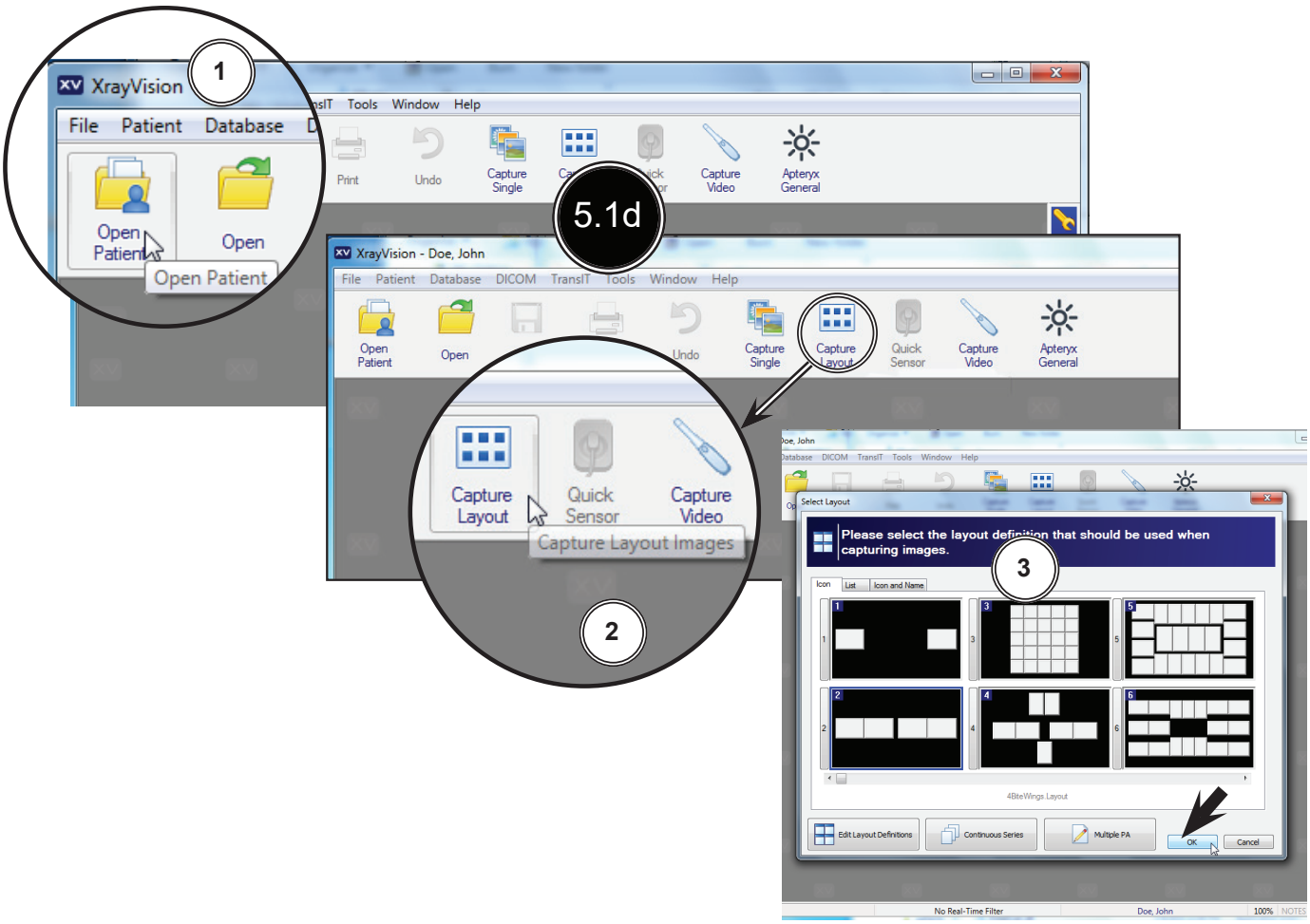

Layout Definition
4 Bite Wings
Image Ext: ScanX.iddl
Tiles: 4
Filename: 4BiteWings.Layout
4 Bite Wings
ScanX
1, 2, 3, 30, 31, 32
ScanX
3, 4, 5, 28, 29, 30
ScanX
12, 13, 14, 19, 20, 21
ScanX
14, 15, 16, 17, 18, 19
6
ScanX
iDevice
<No image extension preference>
DirectVideo Capture
iDevice
ScanX
TWAIN
ScanX
iDevice
Layout Options
Tile Options
Done

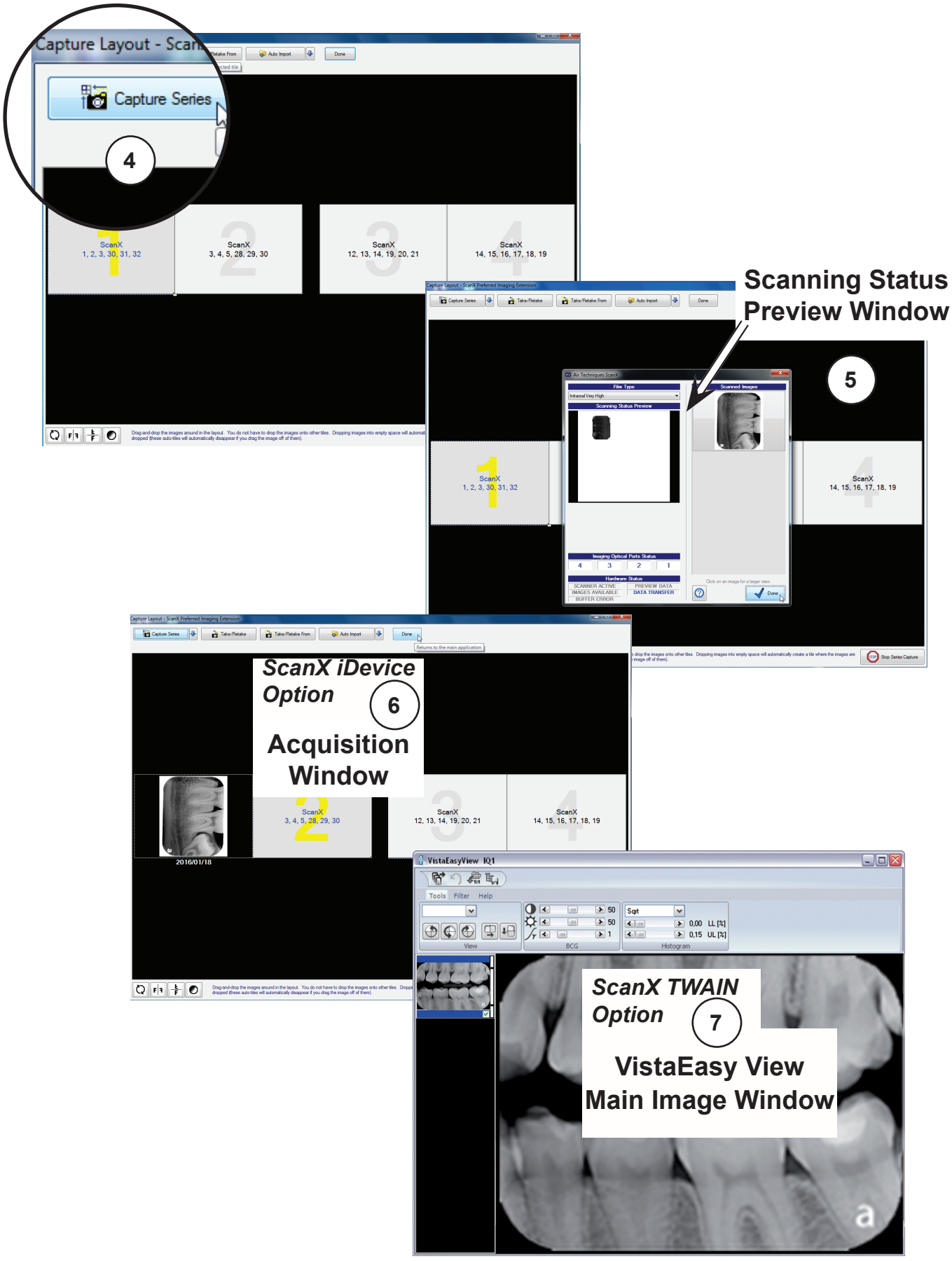

Layout Definition
4 Bite Wings
Image Ext: ScanX.iddl
Tiles: 4
Filename: 4BiteWings.Layout
4 Bite Wings
Layout Modified
The layout has been modified!
Do you want to save the modified layout?
7
Yes
No
Cancel
ScanX
1, 2, 3, 30, 31, 32
ScanX
3, 4, 5, 28, 29, 30
ScanX
12, 13, 14, 19, 20, 21
ScanX
14, 15, 16, 17, 18, 19
ScanX
iDevice
Layout Options
Tile Options
Done
<No Tile Selected>

5.1d. Acquire images via the installed ScanX with **Apteryx** by performing the following.

1. Click the ***Open Patient*** tab to select a patient. Return to the **Apteryx** main window.
2. Select ***Capture Layout Images*** tab and observe that the ***Select Layout*** window opens.
3. Select layout configured in step 5.1.c and click the ***OK*** button. Observe that the ***Capture Layout*** window opens.
4. From the ***Capture Layout*** window, select ***Capture Series*** and observe that the ***Scanning Status Preview*** window opens.
5. Images are acquired using either the ***ScanX TWAIN*** or ***ScanX iDevice*** option source for the capture device as set by paragraph 5.1c, step 6, above. Refer to step 6 when using Direct Integration, ***ScanX iDevice***. Otherwise, proceed to step 7 when acquiring images via ***ScanX TWAIN***.
6. When using Direct Integration, ***ScanX iDevice***, observe that the acquired image or images display.
7. When using ***ScanX TWAIN***, observe that the image or images remain in ***VisionX*** or ***VistaEasy View*** until processed. Refer to paragraph 3.3 or 4.2 for additional information on using the TWAIN interface.

NOTE: If the resultant image is displayed mirrored, refer to Appendix A for the associated Image Mirror Control instructions to adjust image orientation for display as needed.




Capture Series
4
ScanX
1, 2, 3, 30, 31, 32
ScanX
3, 4, 5, 28, 29, 30
ScanX
12, 13, 14, 19, 20, 21
ScanX
14, 15, 16, 17, 18, 19
Scanning Status
Preview Window
5
ScanX iDevice
Option
6
Acquisition
Window
2016/01/18
VistaEasyView IQ1
ScanX TWAIN
Option
7
VistaEasy View
Main Image Window

IMPORTANT: In order for the Direct Integration mode to work, it is necessary to make sure that the DEX PSP module is included when installing Dexis.

NOTE: If you installed or updated Dexis after installing the ScanX software, please run the Update Library program that was included as part of the ScanX software.

5.2. Dexis 10.0.8.55 Setup for ScanX.

The following provides setup instructions for **Dexis** imaging software. This software allows ScanX devices to acquire images via both TWAIN and Direct Integration.

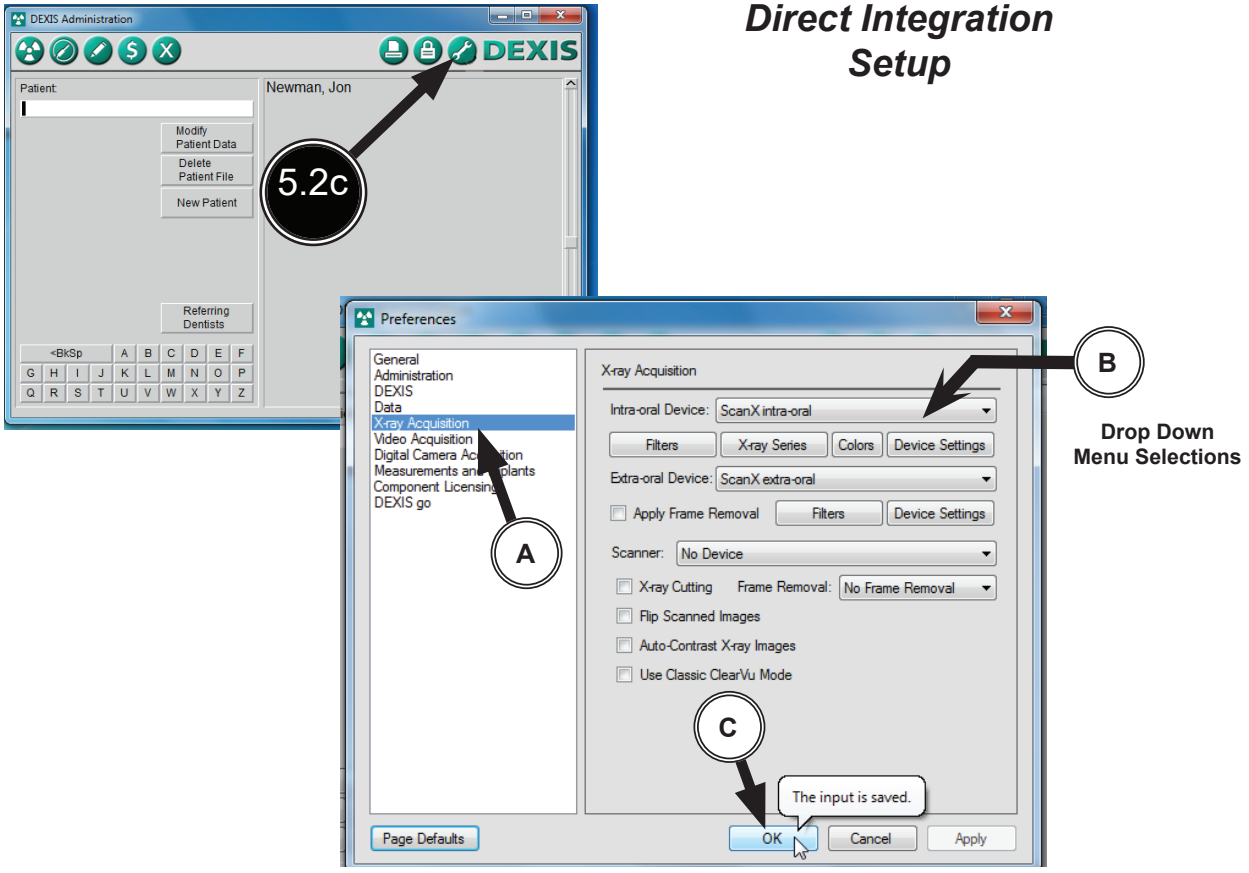
5.2a. Make sure that the ScanX software has been installed and the scanner registered. Refer to sections 2 through 4, as necessary.

5.2b. Start **Dexis** and observe that the main **Dexis** window opens. Perform the steps of paragraph 5.2c when running **Dexis** for the first time to set the acquisition mode to either the TWAIN interface or Direct Integration. Otherwise, proceed to paragraph 5.2d to acquire images via the Direct Integration mode or paragraph 5.2e to acquire images via TWAIN.

5.2c. From the **DEXIS Administration** window, select the ***Tool Icon*** from the main tool bar and observe that the **Preferences** window opens. Perform the following to set up each acquisition mode.

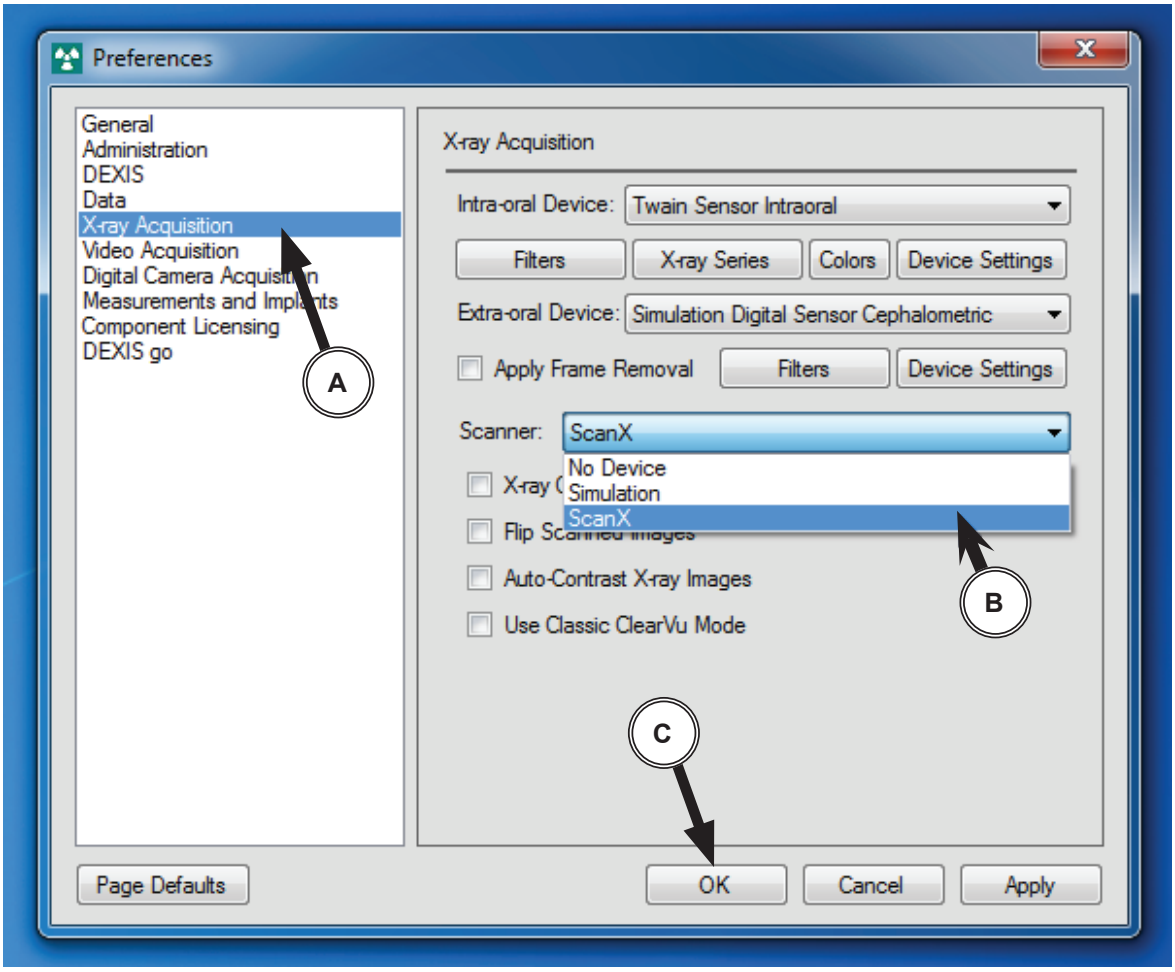
1. Make selections in the **Preferences** window as follows for Direct Integration:
   - A. ***X-ray Acquisition*** option from the list on the left.
   - B. ***ScanX Intraoral*** from the drop down menu on the top right.
   - C. The **OK** tab to save selections and return to the **DEXIS Administration** window.

Direct Integration Setup



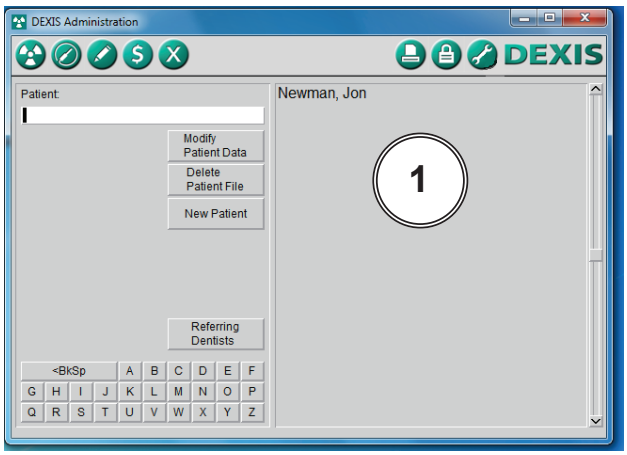
2. Make selections in the **Preferences** window as follows for TWAIN acquisition:
   A. ***X-ray Acquisition*** option from the list on the left.
   B. ***ScanX*** from the drop down menu on the top right.
   C. The **OK** tab to save selections and return to the **DEXIS Administration** window.

TWAIN Setup



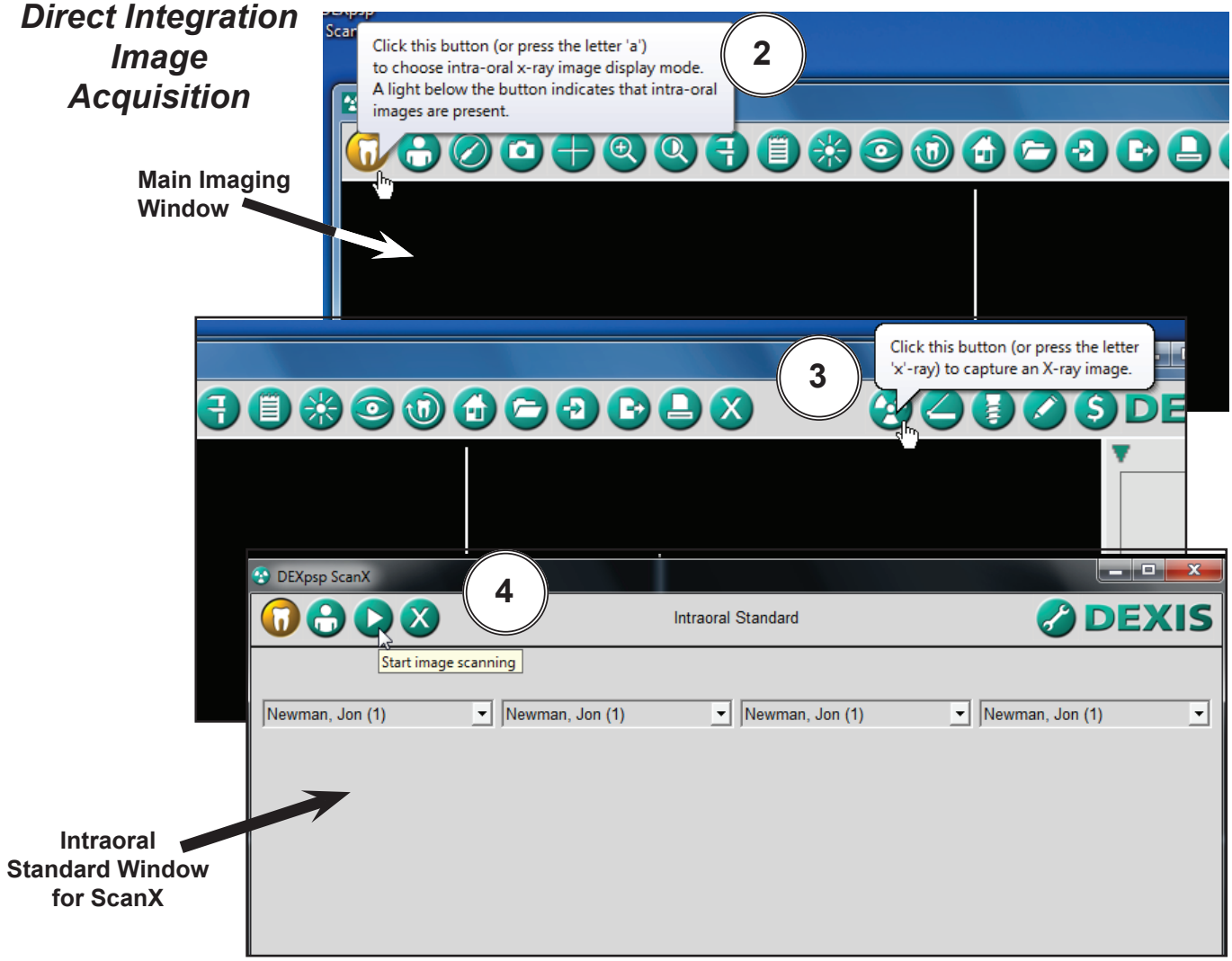
5.2d. Perform the image acquisition procedure provided below for Direct Integration as set in step 5.2c.

1. Start an image acquisition by selecting a patient (existing or newly created) as necessary and observe that the **Main Imaging** window opens.
2. Select the Tooth icon from the left of the tool bar of the **Main Imaging** window.



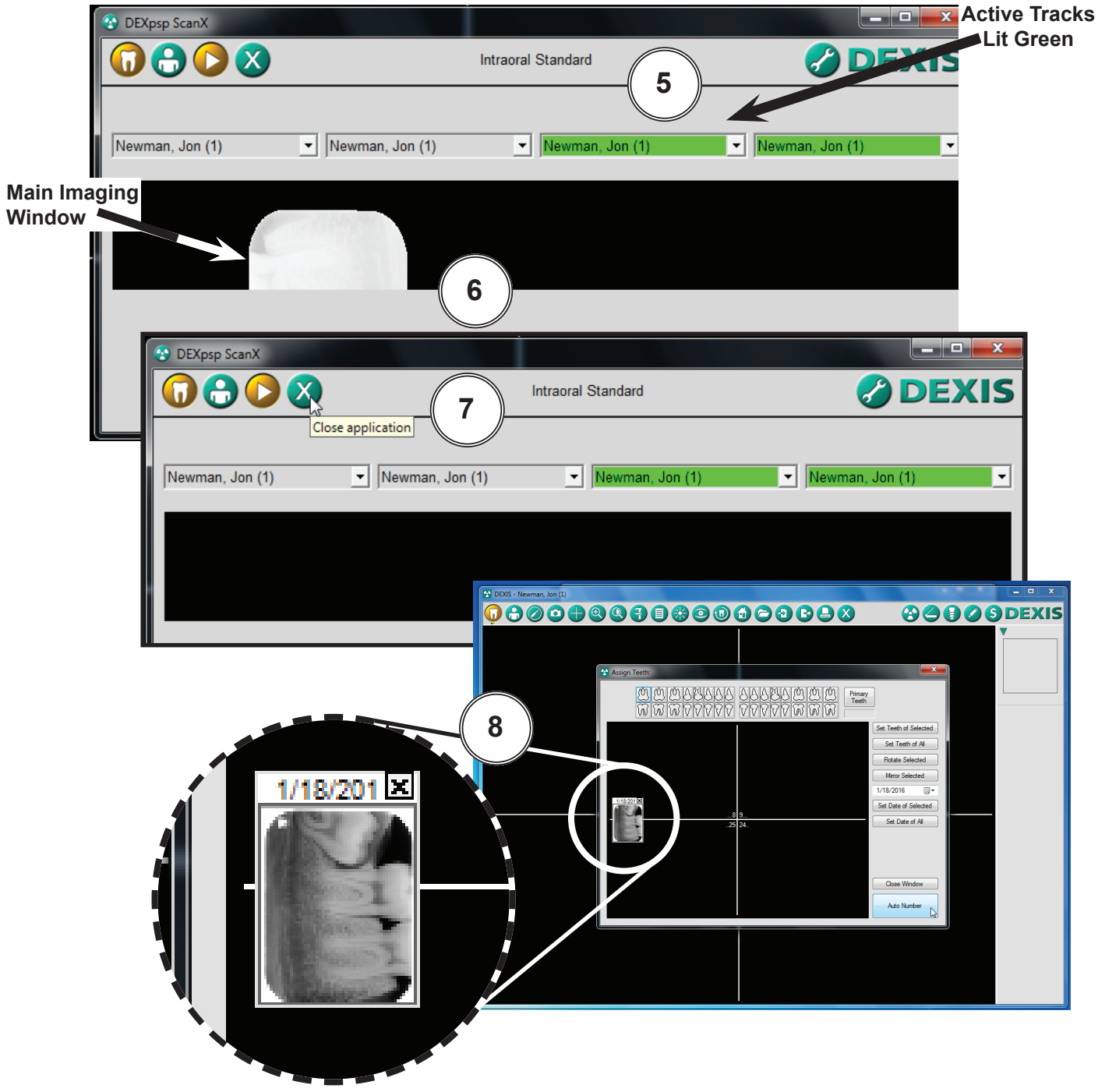
3. Select the Radiation icon from the right of the tool bar of the **Main Imaging** window. Observe that the ***Intraoral Standard*** window for ScanX opens.
4. Click the Play (triangle) icon from the left of the tool bar of the ***Intraoral Standard*** window. This starts the Direct Integration image scanning via the **Dexis** software.

Direct Integration Image Acquisition



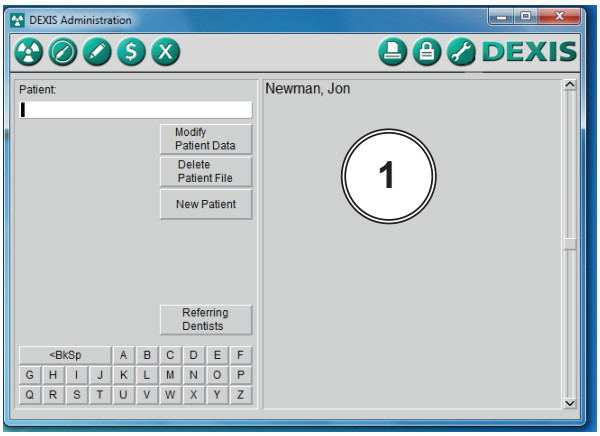
5. Verify that the active tracks of the ScanX illuminate green..
6. Observe that the PSP or PSPs being scanned are shown in the window.
7. When scanning is complete (no PSP shown in the window), select the Stop (X) icon from the left of the tool bar to close the application.
8. Observe that the ***Assign Teeth*** window.

NOTE: *If the resultant image is displayed mirrored, refer to Appendix A for the associated Image Mirror Control instructions to adjust image orientation for display as needed.*

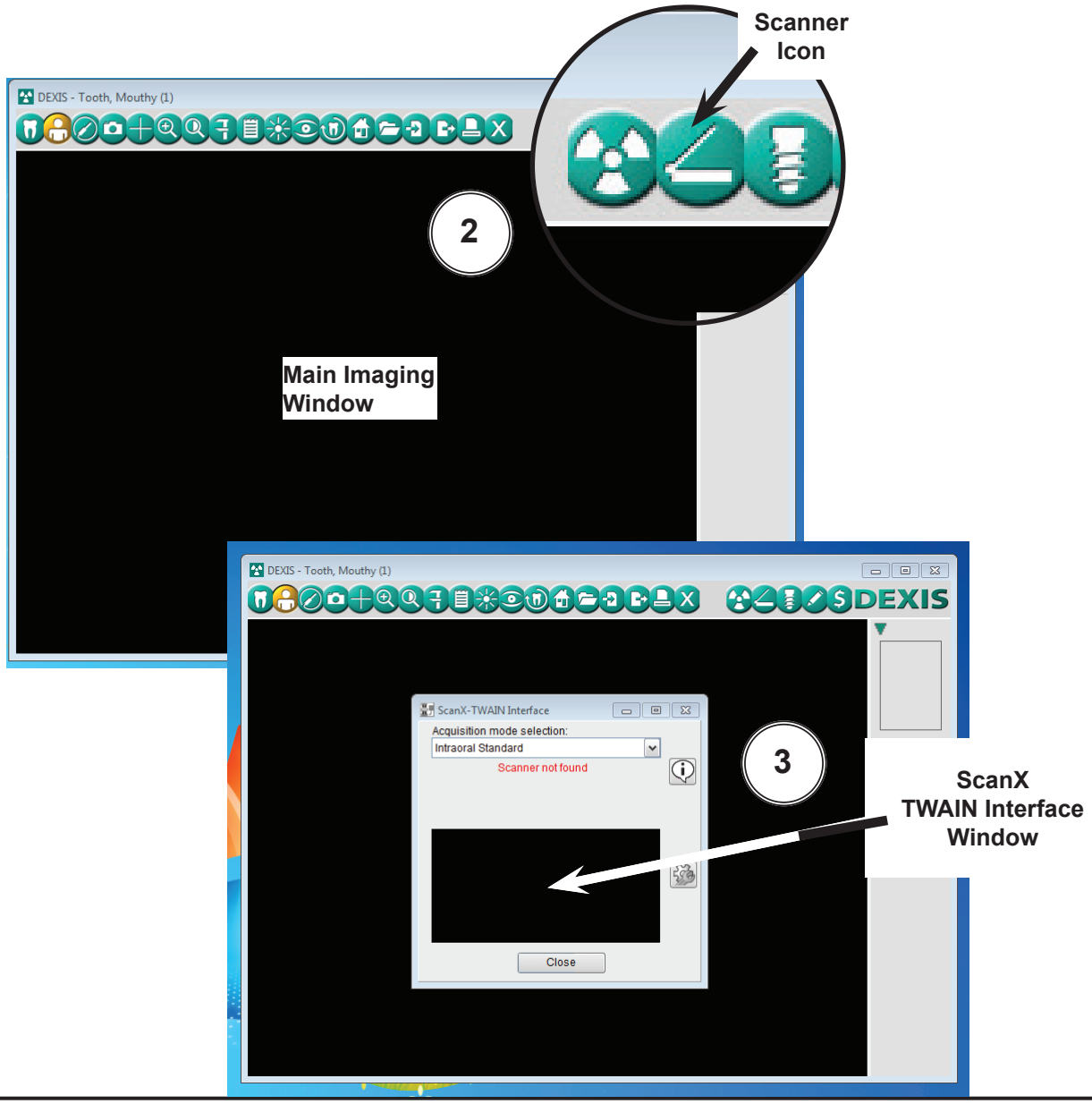


5.2e. Perform the image acquisition procedure provided below for **TWAIN** acquisition as set in step 5.2c.

1. Start an image acquisition by selecting a patient (existing or newly created) as necessary and observe that the **Main Imaging** window opens.
2. Select the Scanner icon from the right of the tool bar of the **Main Imaging** window.

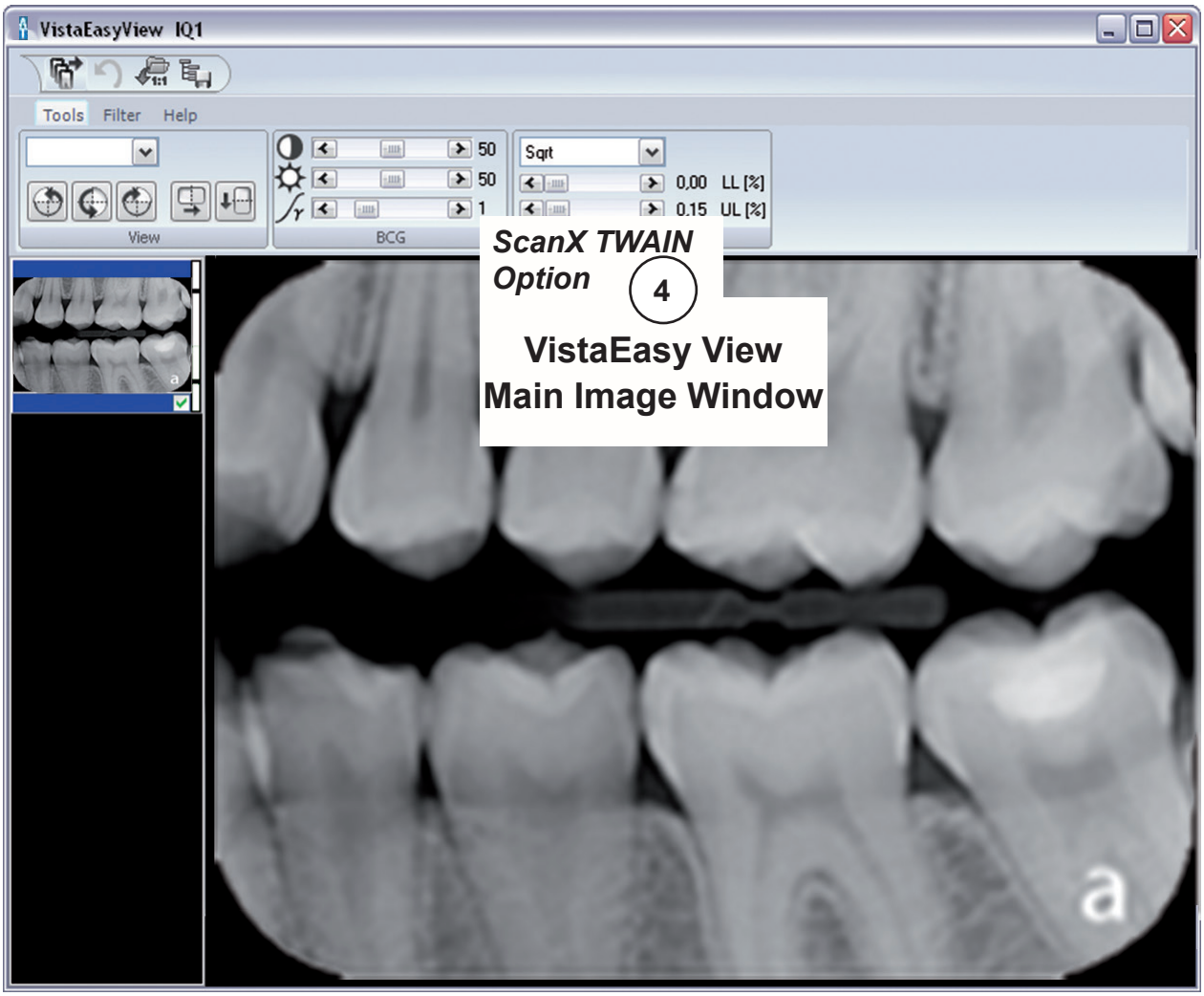


3. Observe that ***VisionX*** or ***ScanX-TWAIN interface*** window opens. Scan a plate or multiple plates viewing the progress in the preview window.



4. Observe that the image or images remain in ***VisionX*** or ***VistaEasy View*** until processed. Refer to paragraph 3.3 or 4.2 for additional information on using the TWAIN interface.

NOTE: *If the resultant image is displayed mirrored, refer to Appendix A for the associated Image Mirror Control instructions to adjust image orientation for display as needed.*



5.3. Eaglesoft Setup for ScanX. ScanX devices to acquire images via both TWAIN and Direct Integration.

5.3a. Make sure that the ScanX software has been installed and the scanner registered. Refer to sections 2 through 4, as necessary.

5.3b. The acquisition mode of the ScanX must be set up when running **Eaglesoft** for the first time. Perform the steps of paragraph 5.3c to set up TWAIN. Direct Integration mode is set up by performing the procedures of paragraph 5.3d. Otherwise, proceed to paragraph 5.3.e to acquire images via the installed ScanX.

5.3c. Setup the ScanX to work with TWAIN in **Eaglesoft** as follows.

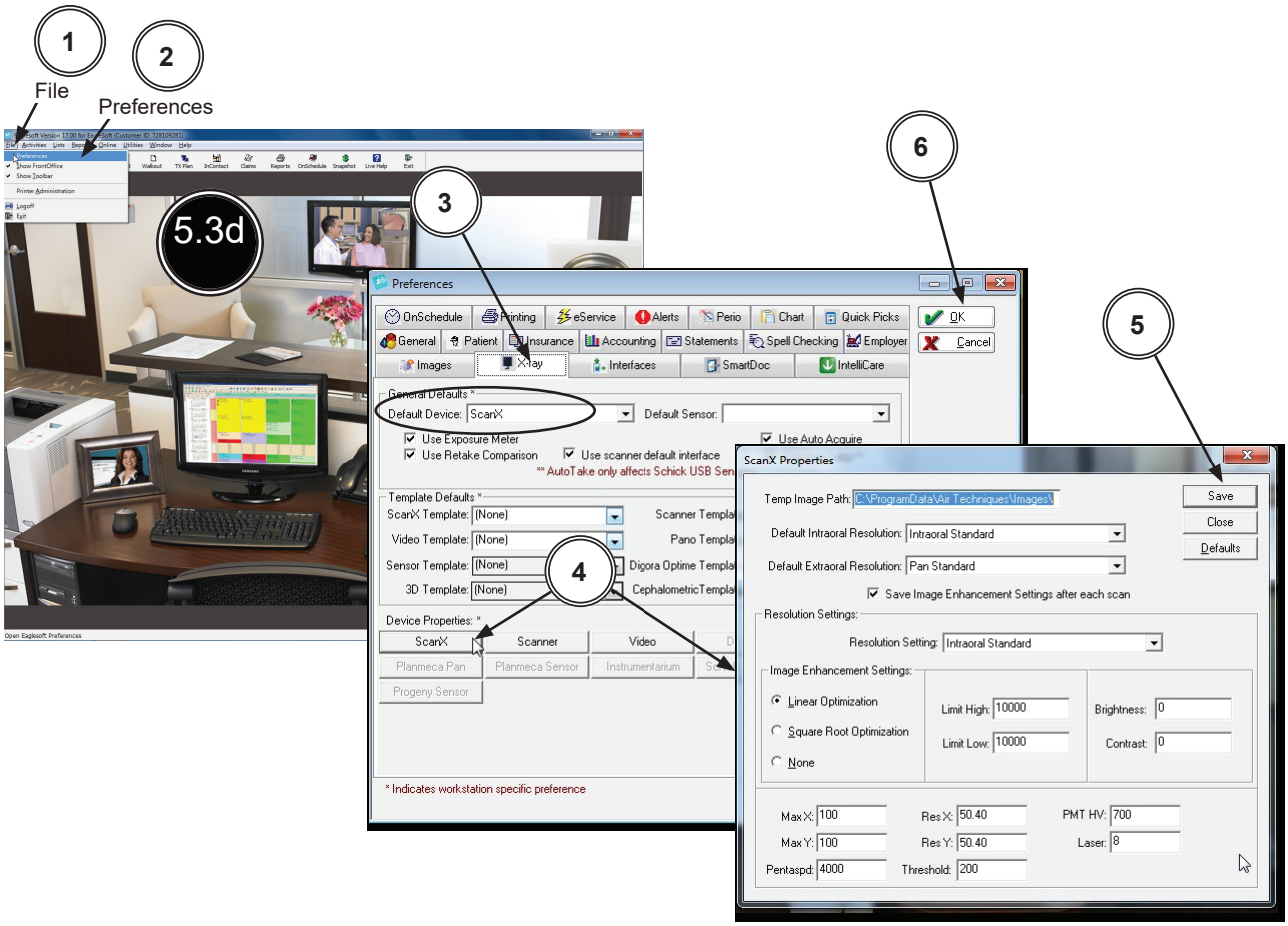
1. Select ***File*** to open a drop down list of operational functions.
2. Select ***Preferences*** and observe a new window opens.
3. Select the **X-ray** tab.
4. Check the ***"use scanner default interface"*** check box.
5. Select the ***Scanner*** tab and observe that the **Select Source** window opens.
6. Highlight the ***ScanX*** from the source list.
7. Click the ***Select*** button to select the TWAIN option as the source module and return to the **Preferences** window.
8. Select **OK** in the upper right hand corner to return to the main program window. The application is now set to acquire images via TWAIN.

Important: *EagleSoft's ScanX Integration module must be installed to enable Direct Integration.*

NOTE: *If you installed or updated EagleSoft after installing the ScanX software, please run the Update Library program that was included as part of the ScanX software.*

5.3d. Setup the ScanX to work with Direct Integration acquisition mode in **Eaglesoft** as follows.

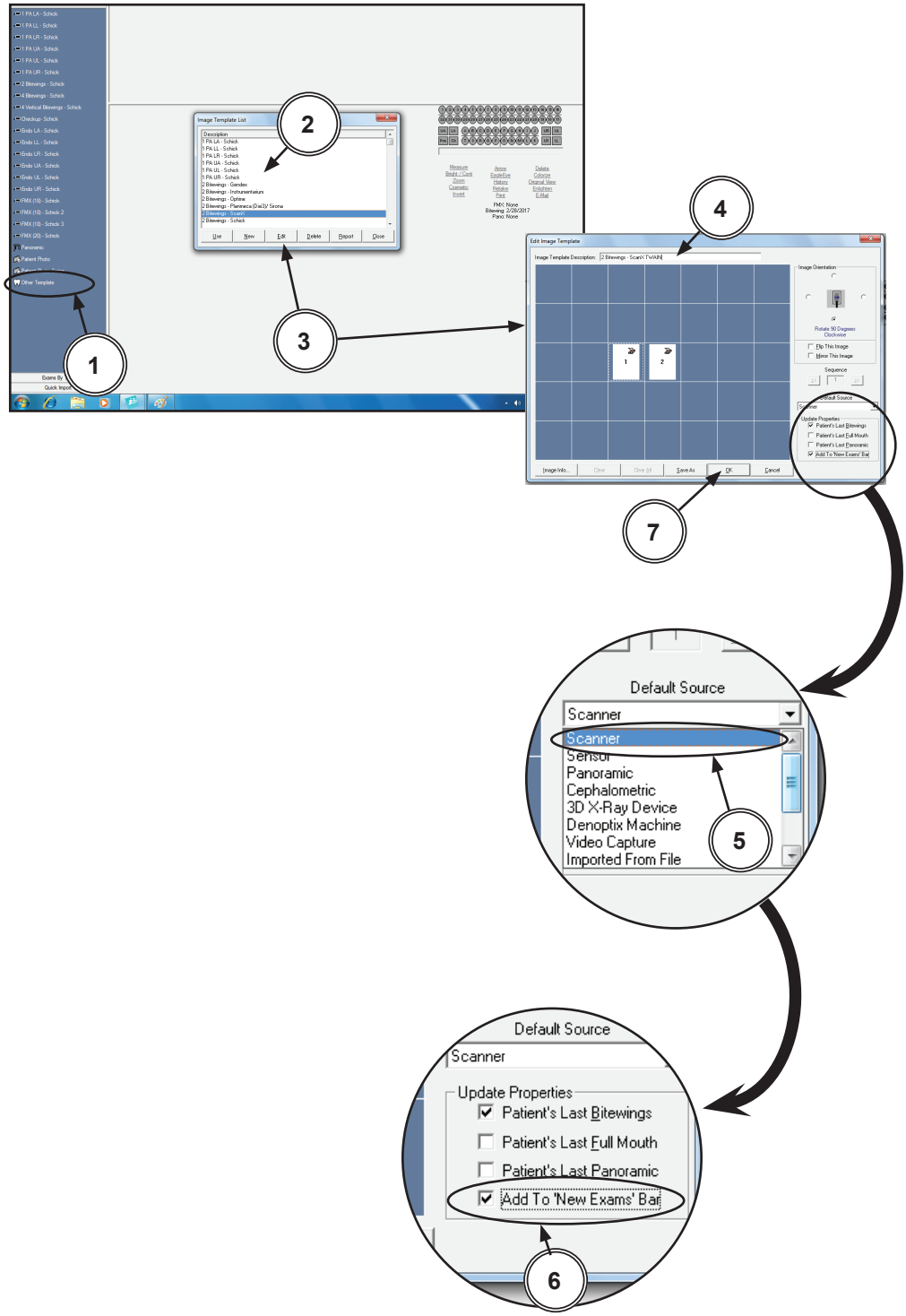
1. Select ***File*** to open a drop down list of operational functions.
2. Select ***Preferences*** and observe a new window opens.
3. Select the **X-ray** tab and observe that the ***ScanX*** is shown as the Default Device.
4. Select the ***ScanX*** tab and observe that the ***ScanX* Properties** window opens.
5. Close the ***ScanX* Properties** window by selecting the ***Save*** tab in the upper right hand corner.
6. Select **OK** in the upper right hand corner of the **Preferences** window to return to the main program window. The application is now set to acquire images via Direct Integration.



NOTE: Refer to **Eaglesoft** *documentation for detail description for adding and configuring of user specific templates*.

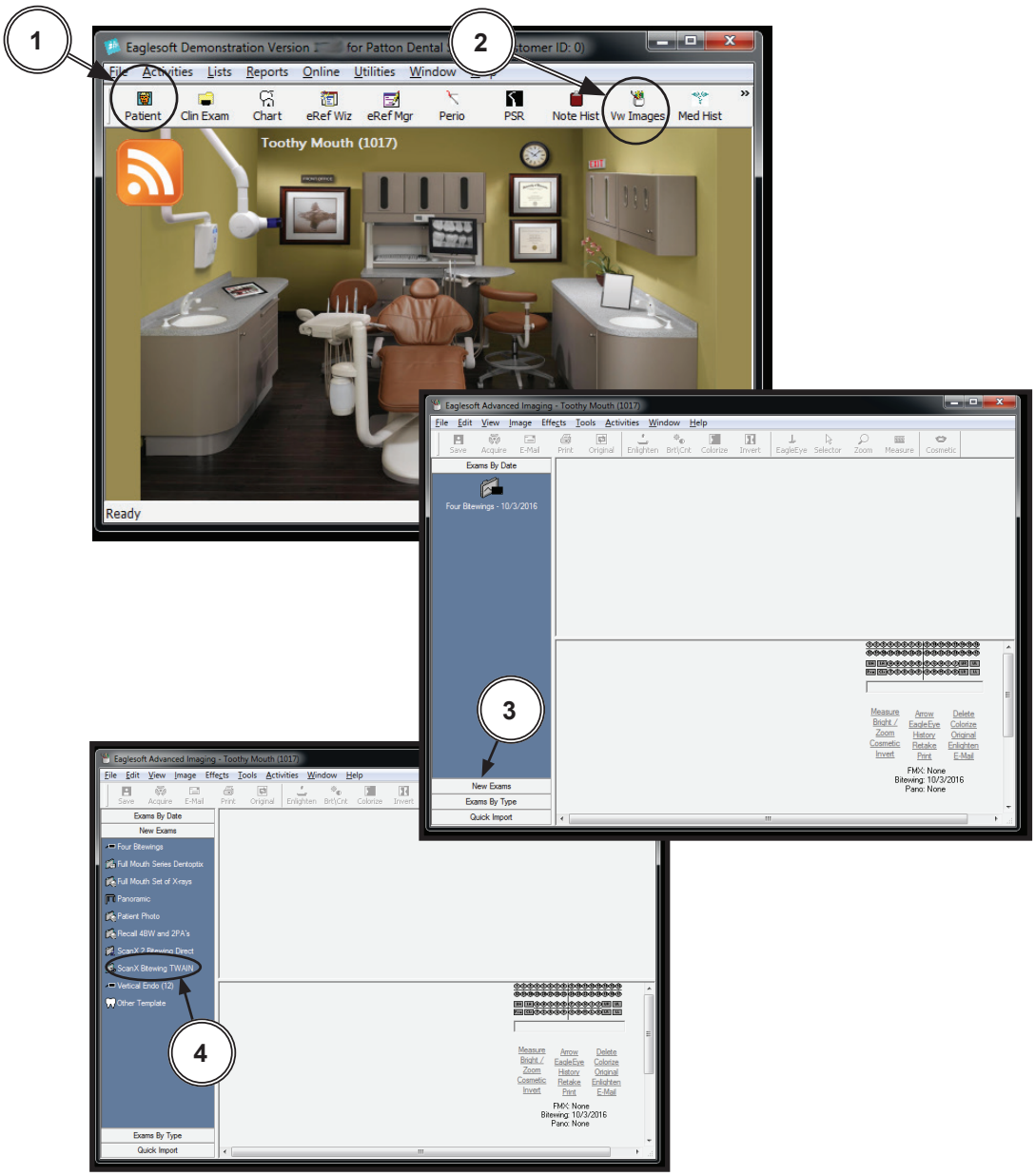
5.3e. Add/configure a template by performing the following steps.

1. Select the **Other Template** listing from the lower left of the window.
2. Observe that a **Image Template List** window appears with a template listing. Select desired ScanX template from list.
3. Select the **Edit** tab from the lower center of the window and observe that the **Edit Image Template** window appears. Modify template for ScanX as required.
4. Rename the template as desired by changing the **Image Template Description** input located in the upper center of the window.
5. Make sure that **Scanner** is selected for the **Default Source** drop down menu located in the lower right of the window.
6. With **Scanner** selected, make sure the **Add To New Exams Bar** check box is checked.
7. Accept the ScanX specific pre-designed template addition by selecting the **OK** button located in the bottom of the **Edit Image Template** window.


1
2
3
4
5
6
7
Default Source
Scanner
Scanner
Sensor
Panoramic
Cephalometric
3D X-Ray Device
Denoptix Machine
Video Capture
Imported From File
Default Source
Scanner
Update Properties
Patient's Last Bitewings
Patient's Last Full Mouth
Patient's Last Panoramic
Add To 'New Exams' Bar

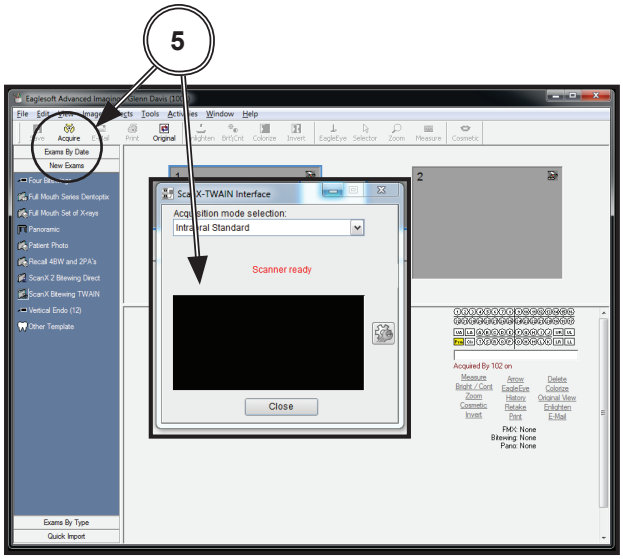
5.3f. Acquire an image from the ScanX by performing the procedures provided below. If needed, refer to paragraph 5.3c to setup EagleSoft to work via TWAIN or paragraph 5.3.d for Direct Integration.

1. Start image acquisition by selecting a patient (existing or newly created).
2. Select the **Vw Images** icon and observe that the **Advanced Imaging** window opens.
3. Select the **New Exams** tab from the lower left of the window and observe that a listing of template options appear.
4. Select the pre-designed template option for a specific exam.

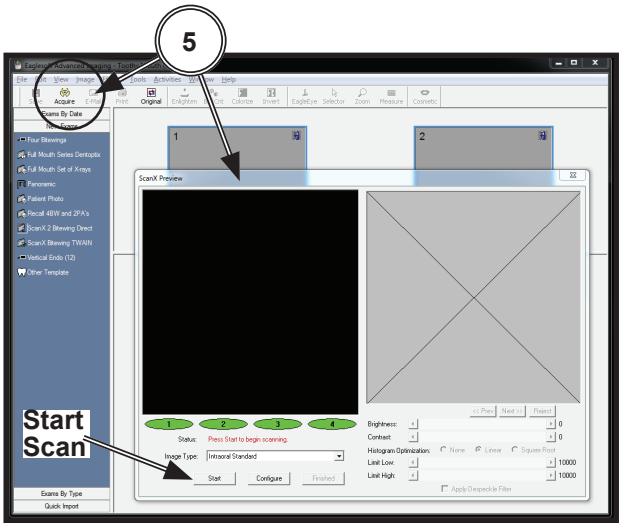


5. Select the **Acquire** icon and observe that ***VisionX*** or ***ScanX-TWAIN interface*** or window opens. Scan a plate or multiple plates.
6. For TWAIN acquisition, observe that the image or images remain in ***VisionX*** or ***VistaEasy View*** until processed. Refer to paragraph 3.3 or 4.2 for additional information on using the TWAIN interface.

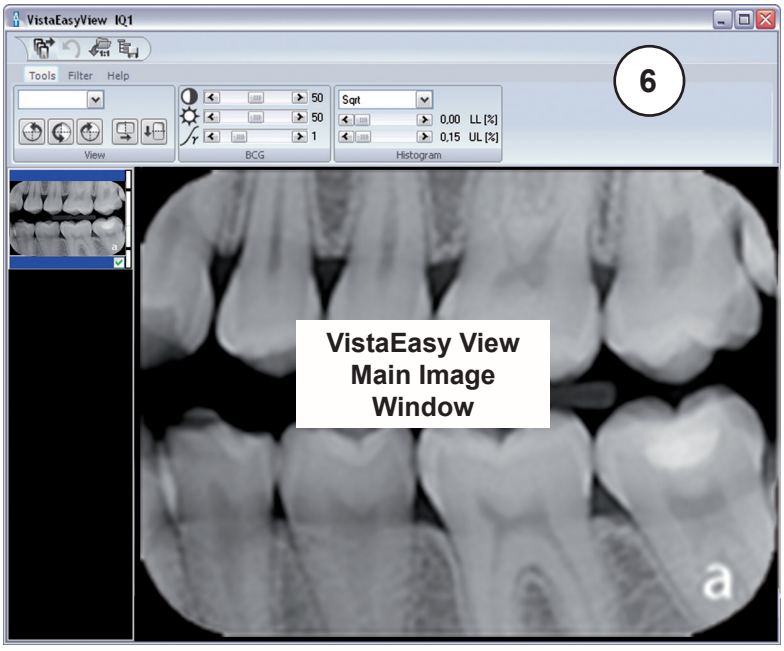
NOTE: If the resultant image is displayed mirrored, refer to Appendix A for the associated Image Mirror Control instructions to adjust image orientation for display as needed.



TWAIN Acquisition



Direct Integration



5.4. KODAK Dental Imaging (KDI) Software Setup for ScanX This software allows ScanX to acquire images via TWAIN. Set up KDI as follows:

5.4a. Make sure that the ScanX software has been installed and the scanner registered. Refer to sections 2 through 4, as necessary.

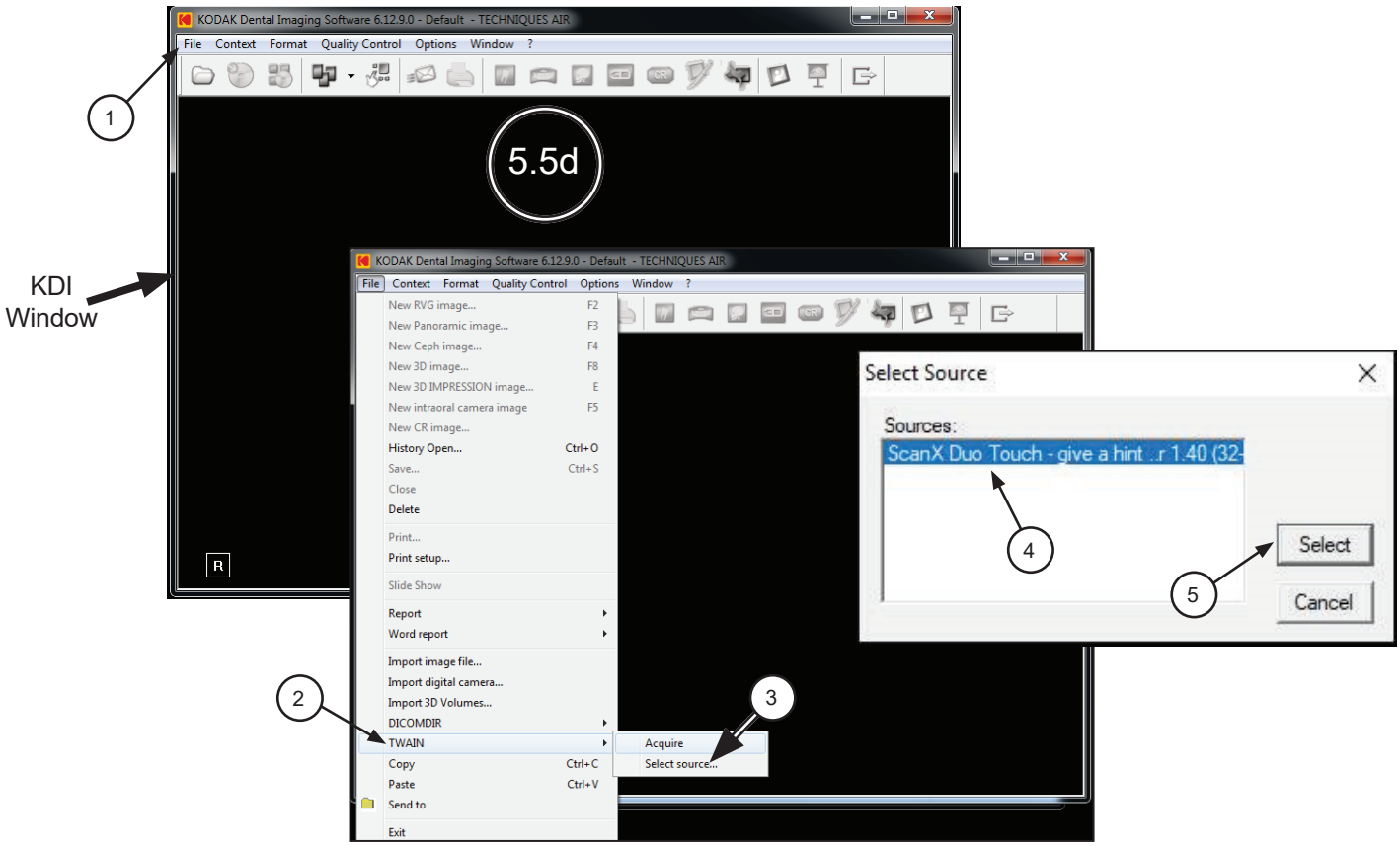
5.4b. Start the application and observe that the ***KDI*** window displays.

5.4c. Perform the steps of paragraph 5.4d when running ***KDI*** for the first time. Otherwise, proceed to paragraph 5.4e to acquire images via the installed ScanX.

5.4d. Setup the ScanX device to work with ***KDI*** for the first time by performing the following.

1. Select ***File*** to open a drop down list of operational functions.
2. Select ***Twain*** from the menu list
3. Choose ***Select source...*** and observe that the ***Select Source*** window opens.
4. Highlight the appropriate ScanX from the source list.
5. Click the ***Select*** button to set ScanX as the source for the capture device. Observe that the ***Select Source*** window closes and the ***KDI*** window returns.
6. Proceed to paragraph 5.4e to acquire images via the installed ScanX.

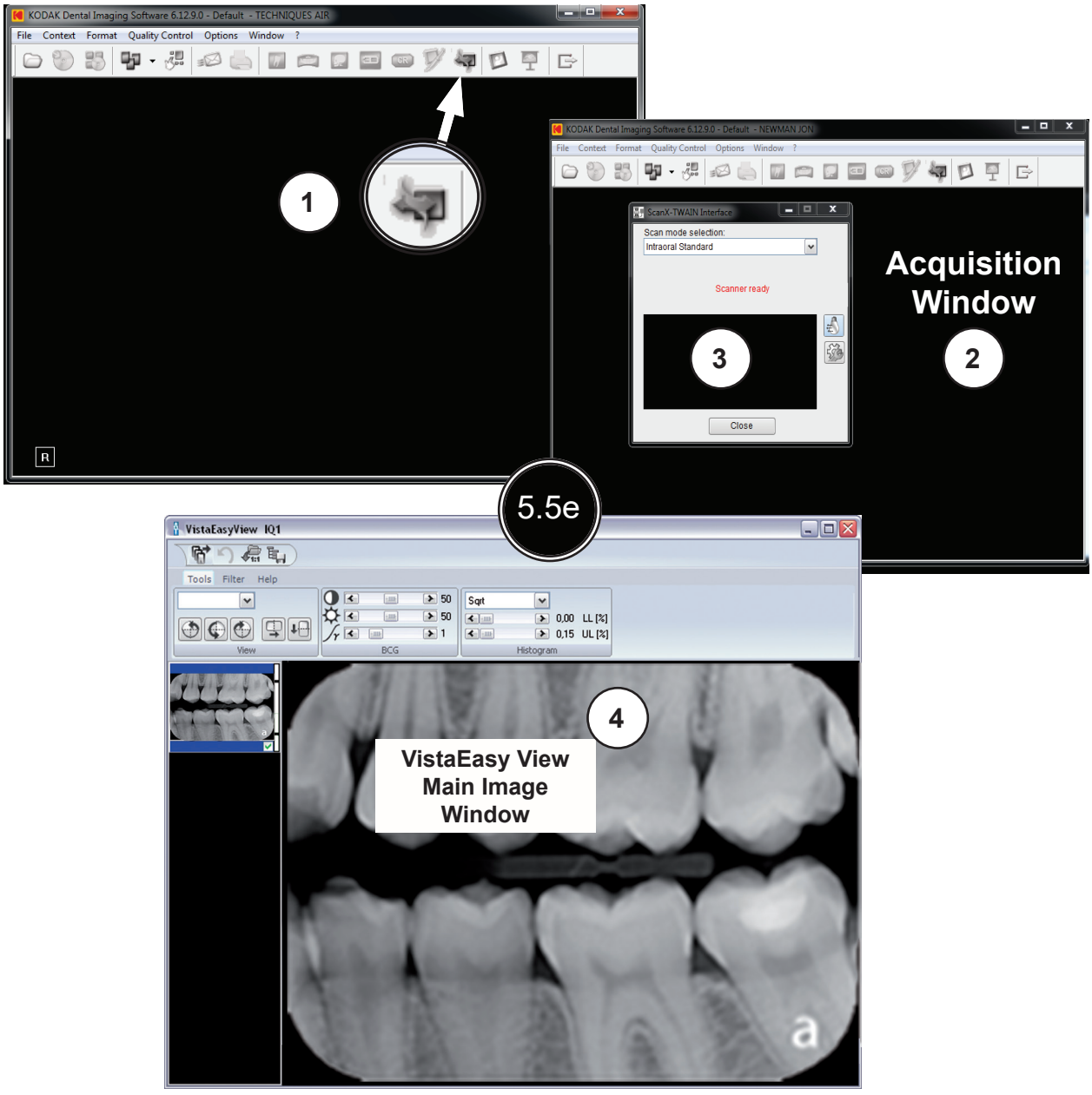
NOTE: If the resultant image is displayed mirrored, refer to Appendix A for the associated Image Mirror Control instructions to adjust image orientation for display as needed.



5.4e. Acquire images using ***KDI*** by performing the following procedure.

1. Click the **Acquisition Icon** located on the top tab of the ***KDI*** window.
2. Observe that the ***VisionX*** or ***ScanX-TWAIN interface*** window opens.
3. Scan a plate or multiple plates viewing the progress in the preview window.
4. Observe that the image or images remain in ***VisionX*** or ***VistaEasy View*** until proce ssed.

NOTE: If the resultant image is displayed mirrored, refer to Appendix A for the associated Image Mirror Control instructions to adjust image orientation for display as needed.



NOTE: *If you installed or updated TigerView after installing the ScanX software, please run the Update Library program that was included as part of the ScanX software.*

5.5. ***Tigerview*** **Pro Setup for ScanX.** This software allows ScanX devices to acquire images via both TWAIN and Direct Integration.

5.5a. Make sure that the ScanX software has been installed and the scanner registered. Refer to sections 2 through 4, as necessary.

5.5b. Perform the steps of paragraph 5.5c when running ***Tigerview*** **Pro** for the first time. Otherwise, proceed to paragraph 5.5d to acquire images via the installed ScanX.

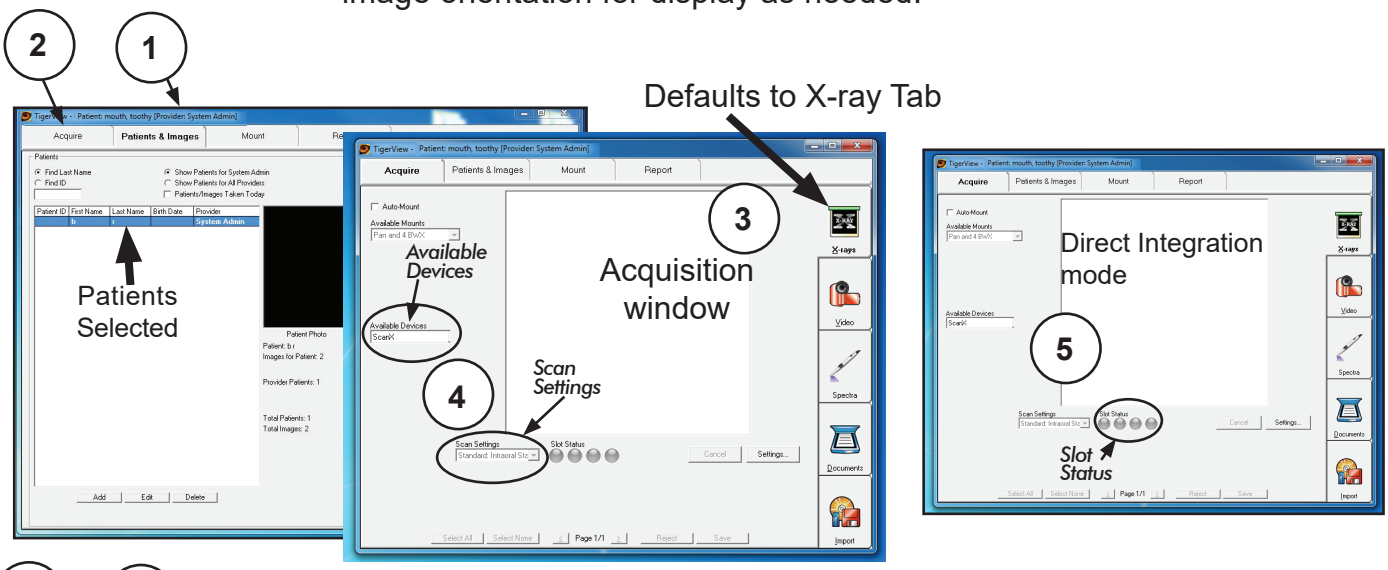
5.5c. Setup ScanX to work with ***Tigerview*** **Pro** for the first time by performing the following.

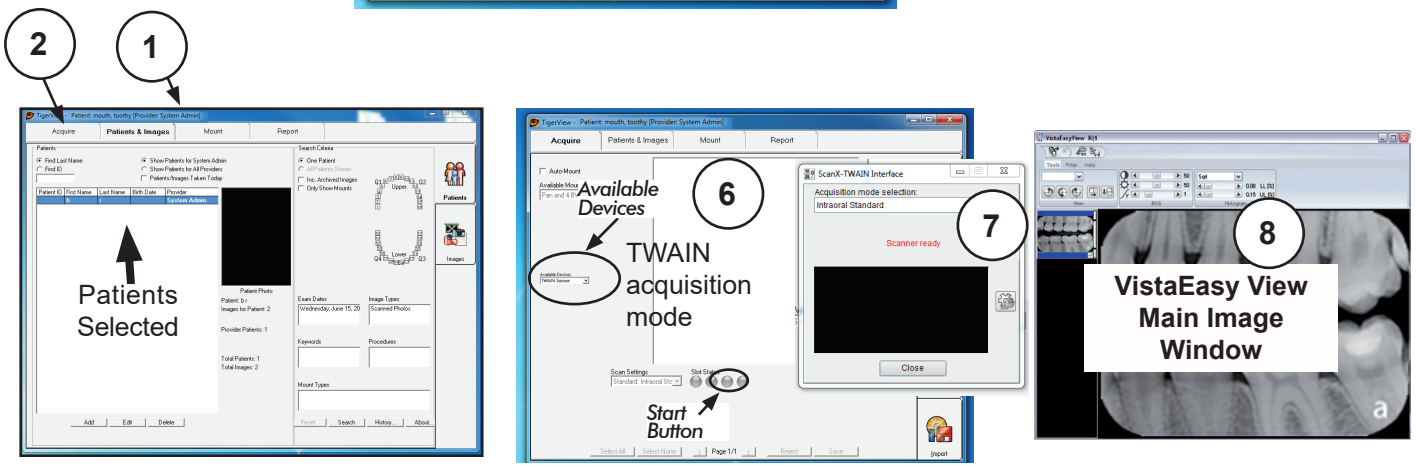
1. Click the Windows ***Start*** button and select ***All Programs*** from the menu.
2. Select the ***TIGERVIEW*** listing to display the ***TIGERVIEW*** **Administration** option.
3. Click ***TIGERVIEW*** **Administration**, which opens the ***TIGERVIEW*** **Administration** ***WIZARD*** window. CHOOSE ***Acquisition Hardware Configuration*** and CLICK NEXT.
4. SELECT ***Flatbed Scanner w/o Transparency Adapter*** and CLICK NEXT.
5. No selections are needed in the new window that opens. Just click Next to continue.
6. Select ***Hardware Checked Below***, choose ***ScanX*** from the menu and click Next.
7. No selections are needed in the new window that opens. Just click Next to continue.
8. Select ***X-ray Acquisition*** and click Finish to complete the setup.
9. Proceed to paragraph 5.5d to acquire images via the installed ScanX.

5.5d. Perform the steps 1 through 5 to acquire images via Direct Integration.

1. Start the application and observe that the ***Tigerview* Pro *Patient*** window displays.
2. With a patient selected, click the ***Acquire*** tab.
3. Observe that the ***Acquisition*** window opens with the X-ray Tab selected.
4. Select ScanX from the ***Available Devices***. Verify that the associated ***Scan Settings*** drop down shows ***Standard Intraoral plate*** selected.
5. Simply start scanning plates observing the ***Slot Status*** indicators for scan progress during the Direct Integration mode.

NOTE: If the resultant image is displayed mirrored, refer to Appendix A for the associated Image Mirror Control instructions to adjust image orientation for display as needed.





5.5e. Perform steps 1, 2, 6 through 8 to acquire images via TWAIN.

6. Set TWAIN acquisition mode by selecting ***TWAIN Sensor*** from the **Available Devices** drop down listing. Verify that the ***TWAIN Devices*** drop down shows ***ScanX*** selected. With the TWAIN acquisition mode set, select the ***Start*** button and observe that the ***VisionX*** or ***ScanX-TWAIN interface*** window opens.
7. Scan a plate or multiple plates viewing the progress in the preview window.
8. Observe that the image or images remain in ***VisionX*** or ***VistaEasy View*** until processed. Refer to paragraph 3.3 or 4.2 for additional information on using the TWAIN interface.

Important: *The Visix ScanXConfig utility must be run to enable Direct Integration.*

NOTE: *If you installed or updated Visix Pro after installing the ScanX software, please run the Update Library program that was included as part of the ScanX software.*

5.6. VISIX Pro Setup for ScanX. This software allows ScanX devices to acquire images via both TWAIN and Direct Integration.

5.6a. Make sure that the ScanX software has been installed and the scanner registered. Refer to sections 2 through 4, as necessary.

5.6b. Perform the steps of paragraph 5.6c when running **VISIX Pro** for the first time. Otherwise, proceed to paragraph 5.6d to acquire images via the installed ScanX.

5.6c. Setup ScanX to work with **VISIX Pro** for the first time by performing the following.

1. Click the Windows ***Start*** button and select All Programs from the menu.
2. Select the **Visix** listing and observe that the **Visix Administration** option appears.
3. Click **Visix Administration**, which opens the **Visix Pro Administration** window.
4. Choose ***Acquisition Hardware Configuration*** and click Next.
5. Select ***Flatbed Scanner w/o Transparency Adapter*** and click Next
6. No selections are needed in the new window that opens. Just click Next to continue.
7. Select ***Hardware Checked Below***, choose ***ScanX*** and/or **TWAIN Sensor** from the menu and click Next.
8. No selections are needed in the new window that opens. Just click Next to continue.
9. Select ***X-ray Acquisition*** and click Finish to complete the setup.
10. Proceed to paragraph 5.6d to acquire images via the installed ScanX.

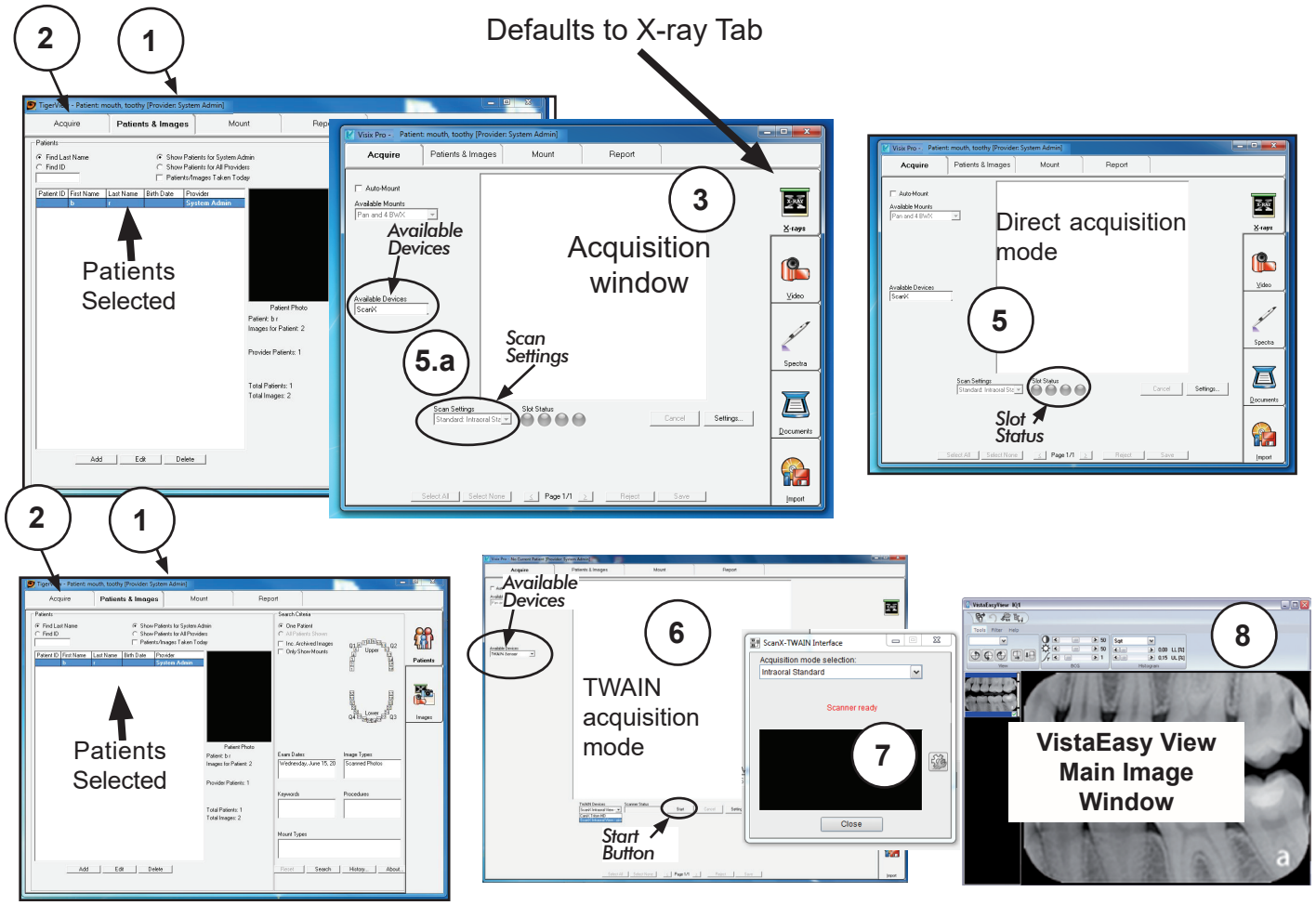
5.6d. Perform the steps 1 through 5 to acquire images via Direct Integration.

1. Start the application and observe that the ***VISIX* Pro *Patient*** window displays.
2. With a patient selected, click the ***Acquire*** tab.
3. Observe that the ***Acquisition*** window opens with the X-ray Tab selected.
4. Set the Direct Integration mode by selecting ***ScanX*** from the **Available Devices** drop down. Verify that the associated ***Scan Settings*** drop down shows ***Standard Intraoral plate*** selected.
5. Simply start scanning plates observing the ***Slot Status*** indicators for scan progress during the Direct acquisition mode.

5.6e. Perform steps 1, 2, 6 through 8 to acquire images via TWAIN.

6. Set TWAIN acquisition mode by selecting ***TWAIN Sensor*** from the **Available Devices** drop down listing. Verify that the ***TWAIN Devices*** drop down shows ***ScanX*** selected. With the TWAIN acquisition mode set, select the ***Start*** button and observe that the ***VisionX*** or ***ScanX-TWAIN interface*** window opens.
7. Scan a plate or multiple plates viewing the progress in the preview window.
8. Observe that the image or images remain in ***VisionX*** or ***VistaEasy View*** until processed. Refer to paragraph 3.3 or 4.2 for additional information on using the TWAIN interface.

NOTE: If the resultant image is displayed mirrored, refer to Appendix A for the associated Image Mirror Control instructions to adjust image orientation for display as needed.

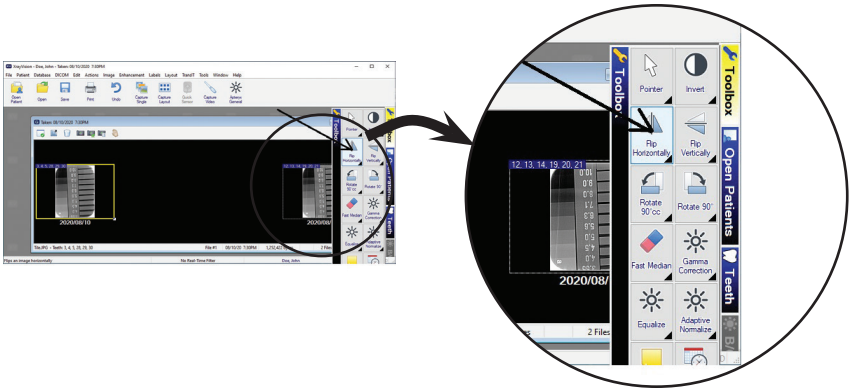


APPENDIX A - IMAGE MIRROR CONTROL

This section provides information on the Image Mirror Control used in each third-party imaging software covered in this manual. The mirror control function allows the user the ability to select and adjust image orientation for display as needed. The user should consult the manufacturer user documentation provided with the associated *imaging management software for further information specific to image mirror control.*

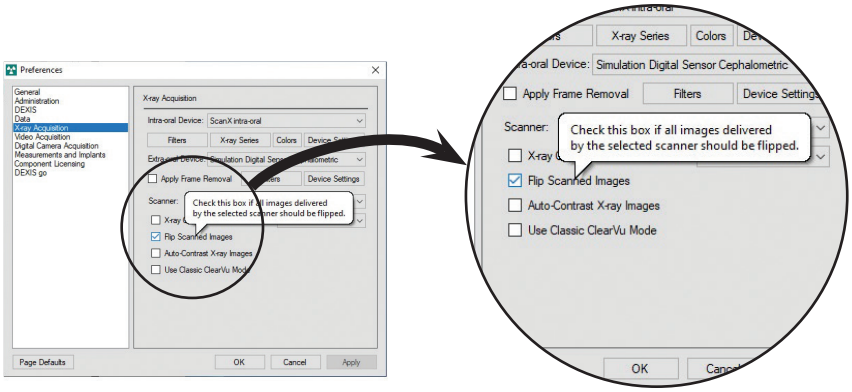
APTERYX

This Image Mirror Control is located on the Toolbox as the Flip Horizontal tab shown at right.



DEXIS

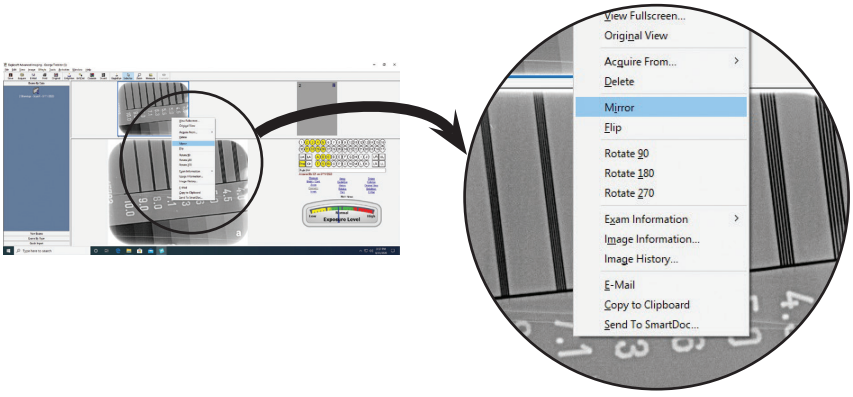
This Image Mirror Control is accessed from the DEXIS Administration window, select the Tool Icon from the main tool bar and observe that the Preferences window opens. Check or deselect the Flip Scanned Images to display image as needed.



EAGLESOFT

This Image Mirror Control is accessed from a drop down list shown when the image is right-click.

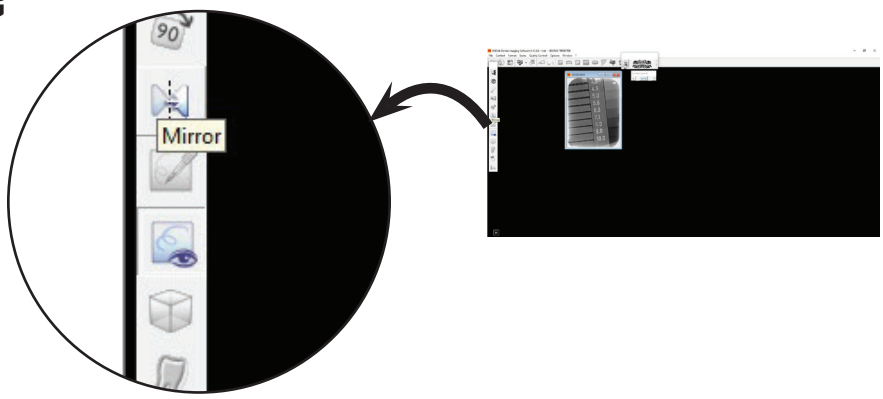
Select or deselect Mirror from drop down list to display image as needed.



KODAK DENTAL IMAGING

This Image Mirror Control is located on the Toolbar as the Mirror shown at right.

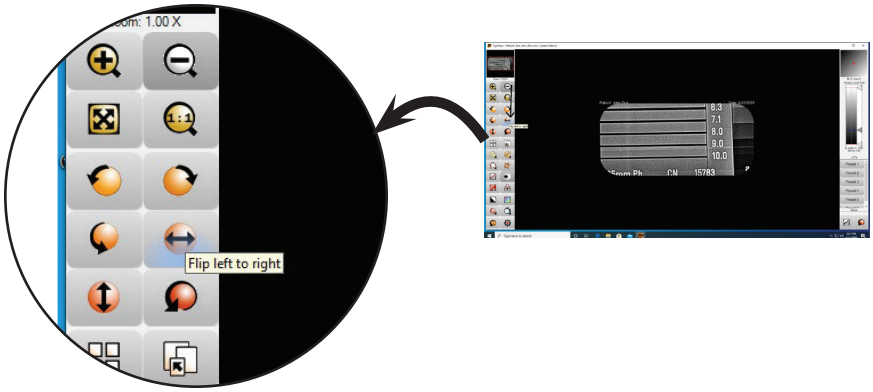
Select or deselect the Mirror tab to display image as needed.



TIGERVIEW

This Image Mirror Control is located on the Toolbar as the Flip left to right tab shown at right.

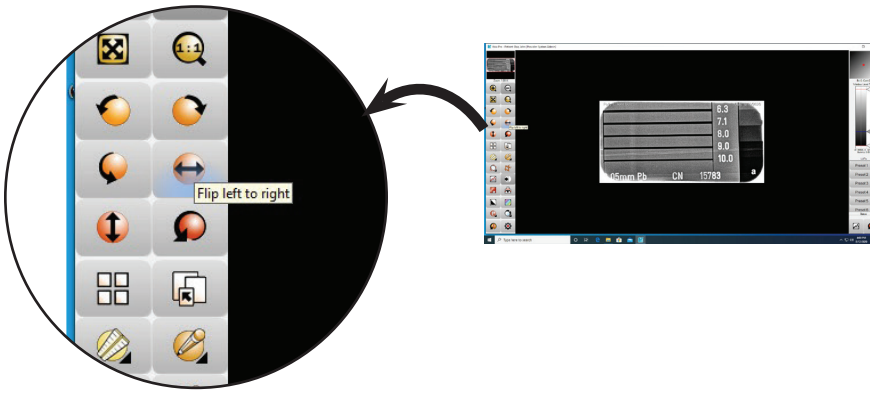
Select or deselect the Flip left to right tab to display image as needed.



VISIX PRO

This Image Mirror Control is located on the Toolbar as the Flip left to right tab shown at right.

Select or deselect the Flip left to right tab to display image as needed.



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