Software Installation and Configuration Guide
General
The instructions provided are limited to the integration of ScanX digital imaging system devices. All devices work using TWAIN. In addition, various third party software provides 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
Perform the following checks to verify that the computer system and associated monitor resolution meet or exceed the requirements needed to operate ScanX.

1. Refer to section 1 and make sure that the computer system being used has the requirements necessary to operate the associated ScanX.
2. Check or set the monitor resolution using the procedure provided by section 2 for the Windows operating system in use.

Device Setup
Perform the following to setup and configure ScanX to operate as a TWAIN device by installing the ScanX software and utilities. The setup also includes information to setup Dynamic Rendering Enhancement and third party imaging software as follows.

1. **Device Drivers.** Refer to section 3 and install the software provided on the Drivers and Utilities CD included with each device. Make sure to use the correct software for the ScanX being installed. The ScanX Classic, Intraoral and Duo use the same software while ScanX Swift uses different software.
2. **Dynamic Rendering Enhancement.** Set up Dynamic Rendering Enhancement via instructions also provided by section 3. This wizard allows you to enable or disable Dynamic Rendering for optimal performance of ScanX. Dynamic Rendering works with the Image Management Software to help provide optimal image quality. Any post processing applied by the Image Management Software may interfere with Dynamic Rendering and should be disabled.
   Make sure to use the correct wizard for the ScanX being installed. The ScanX Classic, Intraoral and Duo use the same wizard while ScanX Swift uses a different one.
3. **Imaging Management Applications.** Refer to section 4 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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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 7, 32-bit (from Professional)
- Microsoft Windows 7, 64-bit (from Professional)
- Microsoft Windows 8.1, 64-bit (not Windows RT)
- Microsoft Windows 10, 64-bit.

USB Port/Version: USB 2.0 or later

Hard Drive: 200 MB available disk space required to start scanning.

Image Management Software: Compatible authorized third-party software (not included with product).

Recommended Components

The items listed below are recommended (but not required) computer system components to aide in ScanX operation.

System RAM: 2 GB

Hard Drive: 500 GB

CPU/Speed: Pentium-4, 2 GHz or higher

Monitor: SVGA 24”, 1280x1024 or higher resolution, contrast ratio 10,000:1, .22 dot pitch

Video Display Adapter: 32 MB RAM

Peripherals: Standard Keyboard & Mouse
Backup Device
External Surge Protector
Power supply backup
2. Monitor Resolution Settings:

The following section provides guidelines to set the resolution of the monitor to work with Windows operating systems and ScanX units manufactured by Air Techniques. This allows the monitor to display the highest quality image produced by the device. Make sure that the monitor is correctly set to display more than \textbf{1280 x 1024} for ScanX and the corresponding Windows operating system by performing the for the specific operating system used. Refer to the Microsoft Windows documentation as necessary.

2.1. Perform the following to check or set the monitor resolution in computers using Windows 7 Professional, Enterprise or Ultimate.

1. Right click the desktop and click the \textbf{Screen resolution} option.
2. Select the \textbf{Resolution} drop down field from the \textbf{Screen Resolution} window.
3. Using the slider control, set to display more than \textbf{640 x 480} for ScanX. The maximum setting is recommended.
4. Click the \textbf{OK} tab to complete the selection.
2.2. Perform the following to check or set the monitor resolution in computers using Windows 8.1 Professional or Enterprise.

1. Right click the desktop and click the **Screen resolution** option.
2. Select the **Resolution** drop down field from the **Screen Resolution** window.
3. Using the slider control, set to display more than **1280 x 1024** for ScanX. The maximum setting is recommended.
4. Click the **OK** tab to complete the selection.
2.3. Perform the following to check or set the monitor resolution in computers using Windows 10 Professional or Enterprise.

1. Right click the Desktop and observe that the **Settings** pop up window opens.
2. Select **Display settings** to open the **System** window.
3. Select the **Advanced display settings** located at the bottom of the window to open the **Advanced Display Settings** window.
4. Using the resolution drop down menu, set to display more than **1280 x 1024** for ScanX. The maximum setting is recommended.
5. Click **APPLY** to accept setting and return to the Desktop window.
Important: Before the device will operate properly device drivers for the corresponding ScanX must be installed. The ScanX Classic, Intraoral and Duo use the same device drivers while ScanX Swift uses different drivers.

3. Device Setup:

The following section provides instructions to setup and configure ScanX to operate as a TWAIN device by installing the Standard Device Drivers. Make sure to use the correct drivers for the ScanX being installed. The ScanX Classic, Intraoral and Duo use the same device drivers while ScanX Swift uses different drivers. The section also includes information to setup Dynamic Rendering Enhancement.

3.1 ScanX Classic, Intraoral and Duo Device Driver Installation. Before connecting ScanX Classic, Intraoral or Duo to your computer or attempting to use it for the first time, run the Setup program on the Drivers and Utilities Disk. This CD contains the necessary device drivers to communicate with the imaging software installed on the user’s computer. Normally, this program runs automatically when the CD is inserted into the drive for the first time. If not, run the Setup program located in the root directory of the CD (typically D:\AutoRun.exe) and select Install Software for ScanX Classic, Intraoral or Duo from the menu.

a. Follow the on-screen instructions to complete the software installation, clicking Next or Install to advance the installation.

b. Make sure that the Select the type of device drivers check box is checked. The Standard Drivers radio button must also be selected.

c. Make sure that all Air Techniques supported devices are unplugged from the computer then select OK. Additional windows will appear questioning whether to install software for the device. Always click Install.

d. From the Installation completed window, click Finish to complete the installation.

e. Verify that an authorized Imaging Software and the supplied USB drivers are installed properly on the computer.

f. Connect the high speed USB cable between the USB Type B connector located on ScanX rear panel and the USB Type A connector located on the computer.

g. Connect ScanX to power and turn on. Verify that both the blue LED indicators, for the READY and ERASER switches illuminate. With both ScanX and computer turned on, Windows may detect ScanX as a new USB Device and the Found New Hardware Wizard will appear. Otherwise go to the Device Manager window and verify that the ScanX is shown connected to the Universal Serial Bus.

h. Refer to paragraph 3.3 and run the setup wizard to configure Dynamic Rendering Enhancement for the installed ScanX (Classic, Intraoral or Duo).
NOTE: Make sure that all Air Techniques supported devices are unplugged from the computer before installing device drivers.

Note: List will show name of device installed. ScanX Duo shown as example only.
Important: Before the device will operate properly device drivers for the corresponding ScanX must be installed. The ScanX Classic, Intraoral and Duo use the same device drivers while ScanX Swift uses device drivers created just for Swift.

3.2 ScanX Swift Device Driver Installation. Before connecting ScanX Swift to your computer or attempting to use it for the first time, run the Setup program on the Drivers and Utilities Disk. This CD contains the necessary device drivers to communicate with the imaging software installed on the user’s computer. Normally, this program runs automatically when the CD is inserted into the drive for the first time. If not, run the Setup program located in the root directory of the CD (typically D:\AutoRun.exe) and select **Install Software** for ScanX Swift from the menu.

   a. Follow the on-screen instructions to complete the software installation, clicking **Next** or **Install** to advance the installation.

   b. Make sure that the **Select the type of device drivers** check box is checked. The **Standard Drivers** radio button must also be selected.

   c. Make sure that all Air Techniques supported devices are unplugged from the computer then select **OK**. Additional windows will appear questioning whether to install software for the device. Always click **Install**.

   d. From the **Installation completed** window, click **Finish** to complete the installation.

   e. From the **Configure Swift** window, click **Done** to verify that ScanX Swift configuration utility has completed and Swift has been located and enabled.

   f. Make sure that an authorized imaging software and the supplied USB drivers are installed properly on the computer. Connect the high speed USB cable between the USB Type B connector located on ScanX rear panel and the USB Type A connector located on the computer.

   g. Connect ScanX to power and turn on. Verify that both the blue LED indicators, for the READY and ERASER switches illuminate. With both ScanX and computer turned on, Windows may detect ScanX as a new USB Device and the **Found New Hardware Wizard** will appear. Otherwise go to the **Device Manager** window and verify that the ScanX Swift is shown connected to the Universal Serial Bus.

   h. Refer to paragraph 3.4 and run the setup wizard to configure Dynamic Rendering Enhancement for the installed ScanX Swift.
NOTE: Make sure that all Air Techniques supported devices are unplugged from the computer before installing device drivers.

3.2c

3.2d

3.2e

Note: List will show ScanX Swift as installed device.
3.3 **ScanX Classic, Intraoral and Duo Dynamic Rendering Enhancement.** Set up Dynamic Rendering Enhancement via instructions provided below. This wizard allows you to enable or disable Dynamic Rendering for optimal performance of ScanX. Dynamic Rendering works with the Image Management Software to help provide optimal image quality. Any post processing applied by the Image Management Software may interfere with Dynamic Rendering and should be disabled.

Make sure to use the correct wizard for the ScanX being installed. The ScanX Classic, Intraoral and Duo use the same wizard while ScanX Swift uses a different one.

a. From the **START** utilities items menu, double click **Configure DR** to start wizard.
b. Observe that the **ScanX Dynamic Rendering Configuration** window opens displaying an explanation of dynamic rendering, click **Next** to continue.
c. Enable Dynamic Rendering for intraoral images by selecting the **ScanX Image with Dynamic Rendering** radio button as shown. Click **Next** to continue.
d. Enable Dynamic Rendering for extraoral images by selecting the **ScanX Image with Dynamic Rendering** radio button as shown. Click **Next** to continue.
e. Observe that the **ScanX Dynamic Rendering Configuration** window opens showing the processing of the dynamic rendering configuration, click **Finish** to complete the task.
3.4 **ScanX Swift Dynamic Rendering Enhancement.** Set up Dynamic Rendering Enhancement via instructions provided below. This wizard allows you to enable or disable Dynamic Rendering for optimal performance of ScanX. Dynamic Rendering works with the Image Management Software to help provide optimal image quality. Any post processing applied by the Image Management Software may interfere with Dynamic Rendering and should be disabled.

Make sure to use the correct wizard for the ScanX Swift. The ScanX Classic, Intraoral and Duo use the same wizard while ScanX Swift uses a different one.

a. From the **START** utilities items menu, double click **Configure DR for Swift** to start wizard.

b. Observe that the **Configure DR for Swift** window opens displaying an explanation of dynamic rendering, click **Next** to continue.

c. Observe that the **Configure DR for Swift** window opens verifying that the configuration utility has located ScanX Swift. Click **Next** to continue.

d. Enable Dynamic Rendering for images by selecting the **Image with Dynamic Rendering** radio button as shown. Click **Commit** to continue.

e. Observe that the **Configure DR for Swift** window opens showing the processing of the dynamic rendering configuration, click **Finish** to complete the task.
NOTE: VistaEasy is installed during the Driver Setup program for the ScanX being installed. See section 3.1 or 3.2, Device Drivers installation.

3.5 Using the TWAIN Interface (Source) with Third-Party Applications. 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 4.), image import processing is done via the VistaEasyView 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 mode. The saved changes are then always applied when this 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 VistaEasyView 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.
Using the TWAIN Interface

Tool – BCG Controls
(Brightness, Contrast, Gamma)

Contrast: The contrast of the recording 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 to 10%. 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.
APTERYX VERSION 4.0.0.0 SETUP

4.1. Apteryx Setup for ScanX.
The following provides setup instructions for Apteryx imaging software, XrayVision Version 4. This software allows Classic, Intraoral, Duo and Swift ScanX devices to acquire images via both TWAIN and direct acquisition. In order for the direct acquisition mode to work, it is necessary to make sure that the ScanX plug-in is checked when installing Apteryx.

NOTE: It is recommended to perform the Update Library utility on the server from the utility disk if ScanX was connected after the third party software was installed.

4.1a. Make sure that the device drivers have been installed. Refer to the Device Setup, section 3, as necessary. Verify the ScanX is connected and turned on.

4.1b. Start the application and observe that the Apteryx main window displays. Perform the steps of paragraph 4.1c when running Apteryx for the first time. Otherwise, proceed to paragraph 4.1d to acquire images via the installed ScanX.

4.1c. 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. Select Capture Layout Images tab 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 ScanX from the Taken From: drop down list. 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 pop up Layout Modified window opens. Click the Yes button to Return to the Apteryx main window.
4.1d. Acquire images via the installed ScanX with Aptyrx by performing the following.

1. Click the **Open Patient** tab to select a patient. Return to the Aptyrx main window.
2. Select **Capture Layout Images** tab and observe that the **Select Layout** window opens.
3. Select layout 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 4.1c, step 6, above. Refer to step 6 when using direct acquisition, **ScanX iDevice**. Otherwise, proceed to step 7 when acquiring images via **ScanX TWAIN**.
6. When using direct acquisition, **ScanX iDevice**, observe that the acquired image or images display.
7. When using **ScanX TWAIN**, observe that the VistaEasyView Main Image window opens once the first image is acquired. The image or images will remain until processed. Refer to paragraph 3.5, Using the TWAIN Interface (Source) with Third-Party Applications.
4.2. **Dexis 10.0.8.55 Setup for ScanX.**

The following provides setup instructions for Dexis imaging software. This software allows Classic, Intraoral, Duo and Swift ScanX devices to acquire images via both TWAIN and direct acquisition. In order for the direct acquisition mode to work, it is necessary to make sure that the DEX PSP module is included when installing Dexis.

4.2a. Make sure that the device drivers have been installed. Refer to the Device Setup, section 3, as necessary.

4.2b. Start the application and observe that the Dexis main window displays. Perform the steps of paragraph 4.2c when running Dexis for the first time to set the acquisition mode to either the TWAIN interface or Direct integration. Otherwise, proceed to paragraph 4.2d to acquire images via the Direct acquisition mode or paragraph 4.2e to acquire images via the TWAIN acquisition mode.

4.2c. 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 acquisition:
   - A. **X-ray Acquisition** option from the list on the left.
   - B. **ScanX Intraoral** from the drop down menu on the top right.
   - C. **ScanX Extraoral** from the drop down menu on the lower right.
   - D. The OK tab to save selections and return to the DEXIS Administration window.

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**Direct Acquisition Mode Setup**

- **A**. X-ray Acquisition option from the list on the left.
- **B**. ScanX Intraoral from the drop down menu on the top right.
- **C**. ScanX Extraoral from the drop down menu on the lower right.
- **D**. The OK tab to save selections and return to the DEXIS Administration window.
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 Acquisition Mode Setup**

![Preferences window](image)
4.2d. Perform the image acquisition procedure provided below for the Direct acquisition mode as set in step 4.2c.

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 image scanning via the Dexis software.
5. Verify that the active tracks (1 to 4) 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.
4.2e. Perform the image acquisition procedure provided below for the **TWAIN** acquisition mode as set in step 4.2c.

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 the **ScanX-TWAIN interface** pop up window opens. Leave the **Intra-oral Standard** selection and scan a plate or multiple plates viewing the process via the **ScanX-TWAIN interface** window.
4. Observe that the VistaEasyView Main Image window opens once the first image is acquired. The image or images will remain until processed. Refer to paragraph 3.5, Using the TWAIN Interface (Source) with Third-Party Applications.
4.3. **Eaglesoft19 Setup for ScanX**. Classic, Intraoral, Duo and Swift ScanX devices to acquire images via both TWAIN and direct acquisition.

4.3a. Make sure that the device drivers have been installed. Refer to the Device Setup, section 3, as necessary. Verify the ScanX is connected and turned on.

4.3b. The acquisition mode of the ScanX must be set up when running Eaglesoft19 for the first time. Perform the steps of paragraph 4.3c to set up TWAIN. The direct acquisition mode is set up by performing the procedures of paragraph 4.3d. Otherwise, proceed to paragraph 4.3g to acquire images via the installed ScanX.

4.3c. Setup the ScanX to work with TWAIN in Eaglesoft19 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** pop up window opens.
6. Highlight **ScanX 1.40 (32-32)** 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 using either the Classic, Intraoral, Duo and Swift ScanX devices.
**EAGLESOFT 19.1.8.0 SETUP**

**Important:** When running the *Eaglesoft19* for the first time with a ScanX, the software must be set up to interface with the device. This is accomplished by installing the Digital Integration software for *Eaglesoft19* included on the utility disk provided with the ScanX.

**NOTE:** Before setting up direct integration acquisition mode, it is recommended to perform the Update Library utility from the utility disk if ScanX was connected after the third party software was installed.

4.3d. Setup the ScanX to work with direct integration acquisition mode in *Eaglesoft19* 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** pop up 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 the direct integration acquisition mode using either the Classic, Intraoral, Duo and Swift ScanX devices.
4.3e. Acquire an image via the TWAIN acquisition mode by performing the procedures provided below. Refer to paragraph 4.3c, if needed, to setup the ScanX to work with TWAIN.

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. If the specific pre-designed template is not listed, proceed to paragraph 4.3f to add/configure a template. Otherwise, proceed to step 4.
4. Select the pre-designed template option for a specific exam (ie. 2 Bitewing) to work with ScanX using TWAIN.
5. Select the Acquire icon and observe that the ScanX-TWAIN interface pop up window opens. Leave the Intraoral Standard selection and scan a plate or multiple plates viewing the process via the ScanX-TWAIN interface window.

6. Observe that the VistaEasyView Main Image window opens once the first image is acquired. The image or images will remain until processed. Refer to paragraph 3.5, Using the TWAIN Interface (Source) with Third-Party Applications.
Note: Refer to Eaglesoft documentation for detail description for adding and configuring of user specific templates.

4.3f. 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 pop up window appears with a template listing. Select desired ScanX template from list.
3. Select the Edit tab from the lower center of the pop up 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.
8. Perform either step A or B for the acquisition mode being used.

A. When acquiring an image via the TWAIN acquisition mode, proceed to step 4.3e.4
B. Proceed to step 4.3g.4 to acquire an image via the direct integration acquisition mode.
4.3g. Acquire an image via the direct integration acquisition mode by performing the procedures provided below. Refer to paragraph 4.3d, if needed, to setup the ScanX to work with the direct integration acquisition mode.

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. If the specific pre-designed template is not listed, proceed to paragraph 4.3f to add/configure a template. Otherwise, proceed to step 4.
4. Select the template option designed for a specific exam (ie. 2 Bitewing) to work with ScanX using direct integration.
5. Select the **Acquire** icon and observe that the **ScanX Preview** pop up window opens. Leave the **Intraoral Standard** selection and press **Start** to scan a plate or multiple plates viewing the process via the **ScanX Preview** window.
6. Press **Finished** to end the scan.
4.4. KODAK Dental Imaging (KDI) Software Setup for ScanX  This software uses only the TWAIN acquisition option allowing Classic, Intraoral, Duo and Swift ScanX devices to scan images. Set up KDI as follows:

4.4a. Make sure that the device drivers have been installed. Refer to the Device Setup, section 3, as necessary.

4.4b. Start the application and observe that the KDI window displays.

4.4c. Perform the steps of paragraph 4.4d when running KDI for the first time. Otherwise, proceed to paragraph 4.4e to acquire images via the installed ScanX.

4.4d. 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 ScanX 1.40 (32-32) 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 4.4e to acquire images via the installed ScanX.
4.4e. Acquire images using KDI by performing the following procedure. Refer to the corresponding ScanX manual as necessary.

1. Click the **Acquisition Icon** located on the top tab of the KDI window.
2. Observe that the **ScanX-TWAIN interface** pop up window opens.
3. Leave the **Intraoral Standard** selection and scan a plate or multiple plates viewing the process via the **ScanX-TWAIN interface** window.
4. Observe that the VistaEasyView Main Image window opens once the first image is acquired. The image or images will remain until processed. Refer to paragraph 3.5, Using the TWAIN Interface (Source) with Third-Party Applications.
4.5. Tigerview Pro Setup for ScanX. This software allows Classic, Intraoral, Duo and Swift ScanX devices to acquire images via both TWAIN and direct acquisition.

4.5a. Make sure that the device drivers have been installed. Refer to the Device Setup, section 3, as necessary. Verify the ScanX is connected and turned on.

4.5b. Perform the steps of paragraph 4.5c when running Tigerview Pro for the first time. Otherwise, proceed to paragraph 4.5d to acquire images via the installed ScanX.

4.5c. 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 4.5d to acquire images via the installed ScanX.
4.5d. Perform the steps 1 through 5 to acquire images via the installed ScanX for Direct acquisition source.

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. Set the desired Acquisition mode from the Available Devices drop down as follows.
   a. Set Direct acquisition mode by selecting ScanX. 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.

4.5e. Perform steps 1, 2, 6 and 7 to acquire images via the installed ScanX from the TWAIN acquisition source. 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.

6. With the TWAIN acquisition mode set, select the Start button and observe that the ScanX-TWAIN interface pop up window opens. Continue scanning a plate or multiple plates viewing the process via the ScanX-TWAIN interface window.

7. Observe that the VistaEasyView Main Image window opens once the first image is acquired. The image or images will remain until processed. Refer to paragraph 3.5, Using the TWAIN Interface (Source) with Third-Party Applications.
4.6. VISIX Pro Setup for ScanX. This software allows ScanX devices to acquire images via both TWAIN and direct acquisition.

4.6a. Make sure that the device drivers have been installed. Refer to the Device Setup, section 3, as necessary.

4.6b. Perform the steps of paragraph 4.6c when running VISIX Pro for the first time. Otherwise, proceed to paragraph 4.6d to acquire images via the installed ScanX.

4.6c. 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 4.6d to acquire images via the installed ScanX.
4.6d. Perform the steps 1 through 5 to acquire images via the installed ScanX for Direct acquisition source.

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 desired Acquisition mode from the **Available Devices** drop down as follows.
   a. Set Direct acquisition mode by selecting **ScanX**. 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.

4.6e. Perform steps 1, 2, 6 and 7 to acquire images via the installed ScanX from the TWAIN acquisition source. 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.

6. With the TWAIN acquisition mode set, select the **Start** button and observe that the **ScanX-TWAIN interface** pop up window opens. Continue scanning a plate or multiple plates viewing the process via the **ScanX-TWAIN interface** window.

7. Observe that the VistaEasyView Main Image window opens once the first image is acquired. The image or images will remain until processed. Refer to paragraph 3.5, Using the TWAIN Interface (Source) with Third-Party Applications.
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