Dentrix Smart Image

USER'S GUIDE

PUBLICATION DATE

March 2022

COPYRIGHTS

SOFTWARE LICENSE NOTICE

LICENSES AND TRADEMARKS

VERSION

The version number and Unique Device Identifier (UDI) appear in the **Smart Image Preferences** dialog box. To open this dialog box, click the Show Smart Image Preferences button in the **Smart Image** panel.

Contents

Dentrix Smart Image

Overview

Dentrix Smart Image is a module of the Dentrix Practice Management System. Dentrix Smart Image is designed to integrate with various third-party imaging software solutions. Depending on the brands of 2D, 3D, and CAD/CAM imaging software you use in your practice, you can use Dentrix Smart Image to interact with one or more of your imaging software applications and imaging devices to automate common imaging and practice management related activities including the following:

- Display thumbnail images of all 2D, 3D, and CAD/CAM scans in the Patient Chart.

- Double-click thumbnail images to load images directly in your imaging software in the Patient Chart.

- Single-click thumbnail images to view full-size images in the Patient Chart.

- Acquire 2D images, 3D volumes, and CAD/CAM scans from the Patient Chart using CDT codes.

- Acquire 2D images, 3D volumes, and CAD/CAM scans for the selected teeth in the Patient Chart.

- Use multiple 2D, 3D, or CAD/CAM imaging software applications simultaneously.

- View multiple images simultaneously for comparison.

- View images from multiple imaging software applications simultaneously.

- Display icons in the Patient Chart for each tooth that show the type of images that exist for each tooth.

- View all images of a specific tooth or of specific teeth with a single click directly in the Patient Chart.

- Control billing in the practice management modules for images acquired in the imaging software and eliminate having to post completed imaging procedures manually in the Patient Chart.

- Attach images automatically or manually using the Smart Image e-Claims feature.

- Updates are checked for automatically. If an update is mandatory, you will automatically receive a notification to download and install the update.

Real Cloud Imaging (RCI), the creators of the Smart Image technology, have registered Smart Image with the US Food and Drug Administration (FDA) as a Class I Medical Data System. In accordance with FDA regulations, the following Precautions are presented on behalf of RCI.

Precautions

- Dentrix Smart Image is an FDA regulated class I medical device designed for viewing existing clinical images that were acquired via a third-party imaging (PACS) system.

- Dentrix Smart Image is designed for use in the field of dentistry. Federal law restricts Dentrix Smart Image to sales by or on the order of a dentist.

- To effectively use the Dentrix Smart Image software, it is strongly recommended that all users obtain dedicated training on the use of Dentrix Smart Image software prior to use on any patients.

- Read and understand the User's Guide in its entirety before using the Dentrix Smart Image software upon patients.

- Use of this software as a diagnostic aid must be used in combination with other diagnostic aids, PACS systems, and clinical experience to form a diagnosis and should not be solely relied upon for diagnosis.

- Do not operate Dentrix Smart Image software upon patients if you are filling ill, fatigued, or if you are experiencing lack of concentration.

- Do not leave any computer/device that is operating Dentrix Smart Image software unattended as this can create a security risk to the patient or practice data.

- Contact Customer/Technical Support should you have any questions, difficulties using, experience any anomalies, or have comments regarding the Dentrix Smart Image software.

Installing Dentrix Smart Image Connectors

If you have installed Dentrix G7.0, G7.1, or G7.2 and have a current Dentrix Customer Service Plan, call 1-800-DENTRIX, and select Option 2. Ask to have Smart Image and your connector installed.

If you have installed Dentrix G7.3 or later, Smart Image was installed automatically. If you are using any imaging software other than DEXIS or CDR Dicom for Windows and have a current Dentrix Customer Service Plan, you must call Dentrix Support to install your imaging software connector.

If you are using the DEXIS or the CDR Dicom for Windows imaging software, complete the following steps.

To install the Smart Image for DEXIS or the Smart Image for CDR Dicom for Windows connector

1. Open the Patient Chart, and then click the **Smart Image** tab.

2. Click the Show Smart Image Preferences button, and then click **Check for Updates**.

3. To remove an earlier version of Smart Image and install an update, click **Download and Install**.

   Smart Image automatically detects if DEXIS or CDR Dicom for Windows is installed and installs the Smart Image for DEXIS or the Smart Image for CDR Dicom for Windows connector.

The Patient Chart and Smart Image

When you install Dentrix Smart Image, the Patient Chart is modified to include the Smart Image toolbar and the **Smart Image** tab.
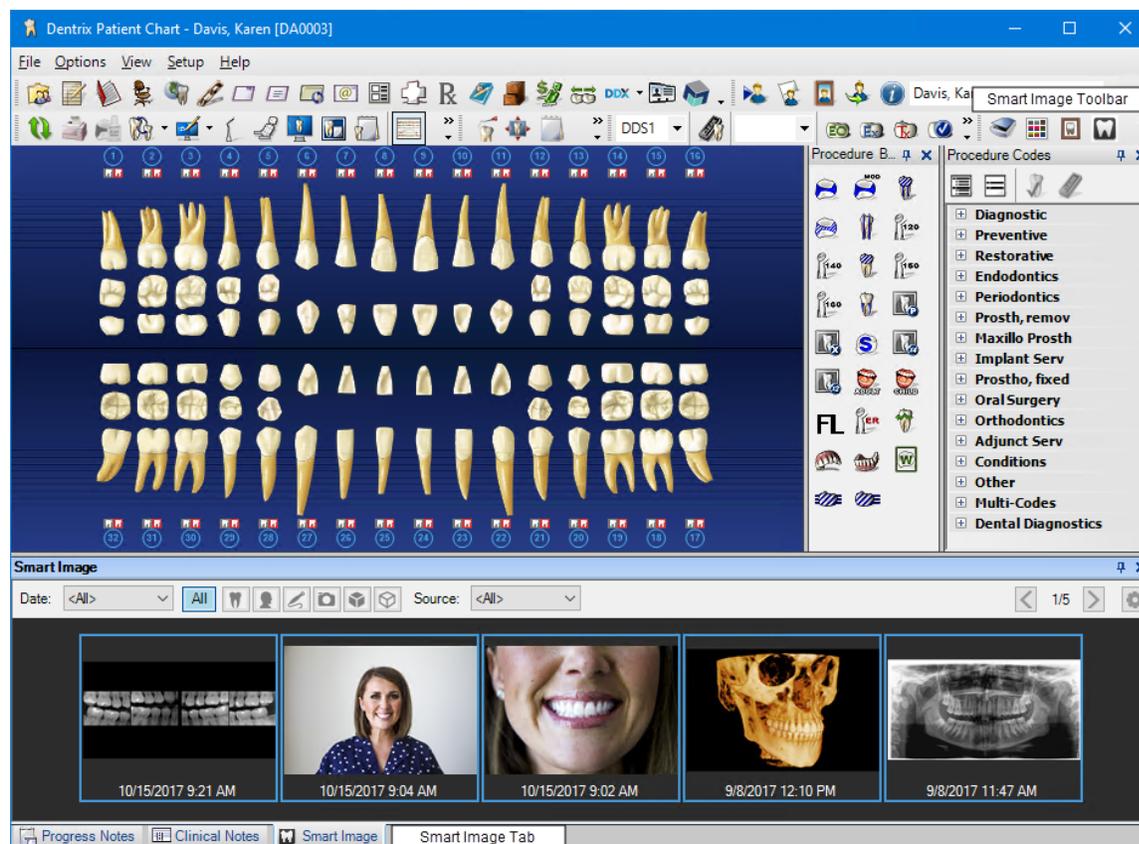
The Smart Image Toolbar

The Smart Image toolbar contains buttons that you click to acquire new images; see the most recent 2D, 3D, and CAD/CAM images; see images of selected teeth; see thumbnails of all images for the selected patient; and open your imaging software and integrate the selected patient with the selected connector.

Button	Name	Description
	Acquire a 2D/3D or CAD/CAM Image	Click to acquire a new image for the selected patient.
	Show the Most Recent 2D/3D and CAD/CAM Images	Click to see the most recently captured images for the selected patient.
	Show Images for the Selected teeth in Chart	Click to see any images you have captured of the selected teeth.
	Show Thumbnails of All Images	Click to see thumbnails of all images for the selected patient.

Opening the Smart Image Panel

When you install Dentrix Smart Image, the Patient Chart is modified to include the Smart Image toolbar and the **Smart Image** tab. The **Smart Image** panel consists of a toolbar and a thumbnail bar.

To open the Smart Image panel

1. To open the **Smart Image** panel, click the **Smart Image** tab adjacent to the **Clinical Notes** tab.

    The **Smart Image** panel appears in the Patient Chart window.
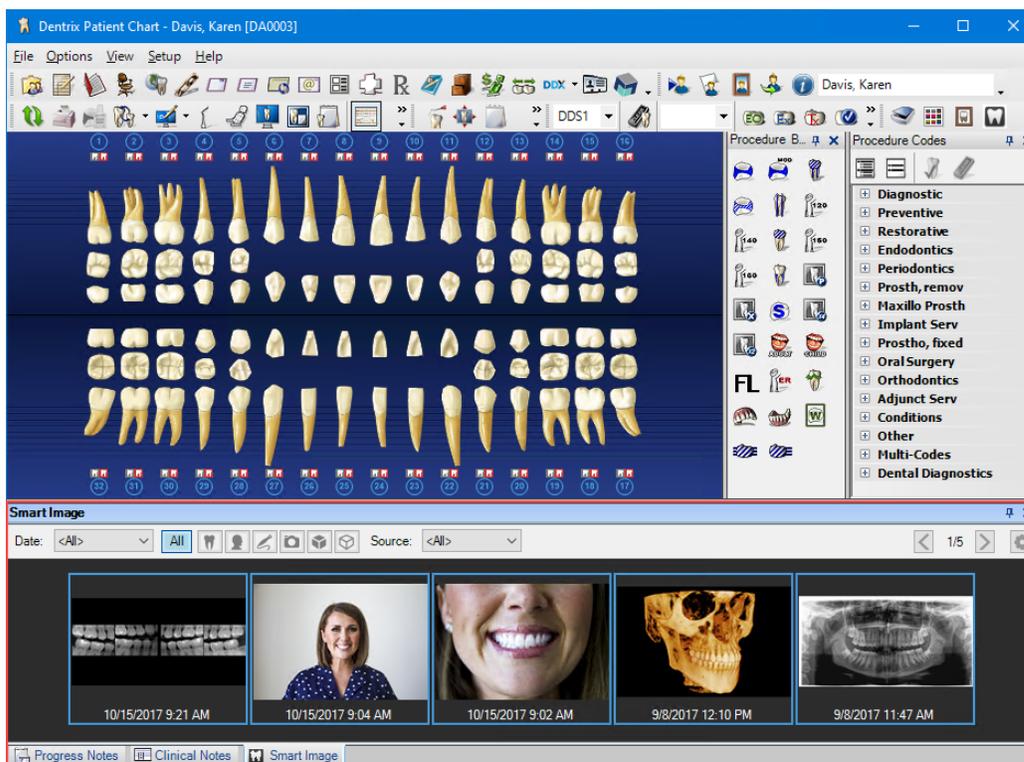
2. To change the date from the default setting of **<All>**, click the Down arrow, and click one of the following options:

    - **<3 months** – To view images less than 3 months old.
    - **<6 months** – To view images less than 6 months old.
    - **<12 months** – To view images less than 12 months old.
    - **<24 months** – To view images less than 24 months old.
    - **>24 Months** – To view images greater than 24 months old.

3. To filter the types of images displayed in the **Smart Image** panel from the default **<All>**, click one of the following buttons:

    - **Intraoral X-ray** – To view intraoral X-rays only.
    - **Extraoral X-ray** – To view extraoral X-rays only.
    - **Intraoral Photograph** – To view intraoral photos only.
    - **Extraoral Photograph** – To view extraoral photos only.
    - **CAD/CAM** – To view CAD/CAM images only.
    - **3D** – To view 3D images only.

4. To change the **Source** from the default **<All>**, click the Down arrow, and then click the preferred source.

5. To page through the images click the page back or page forward arrows as appropriate.

6. To view an image in the panel, click the image.

    Note: To load the image in its respective imaging software application, double-click it.

    For more information, see "Viewing Images in the Smart Image Panel."

Acquiring Images

Depending on the imaging software that you use, you can acquire images using Dentrix Smart Image.

To acquire an image

1. In the Smart Image toolbar, click the Acquire a 2D/3D or CAD/CAM Image button.

    The **Smart Image Acquisition** dialog box appears.
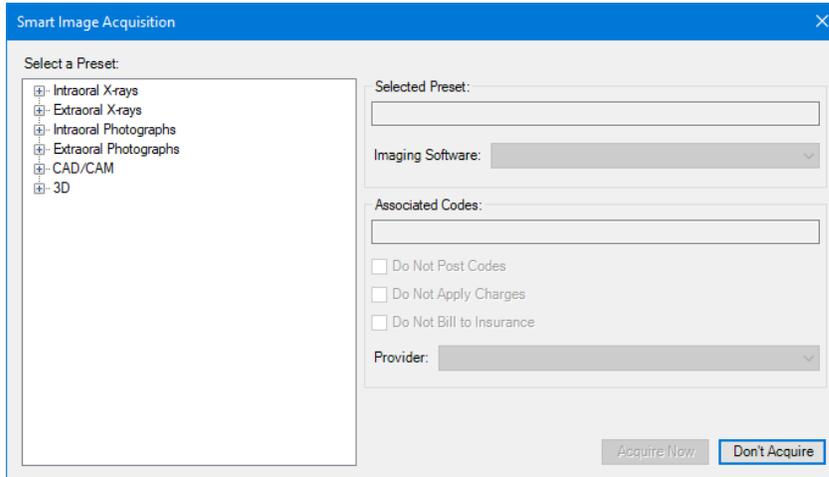
2. Under **Select a Preset**, click the image type (**Intraoral X-rays**), and then the specific type of image (**1BW**) you want to capture.

    The type of image you selected appears in the **Selected Preset** text box, and if applicable, the associated codes in the **Associated Codes** text box.
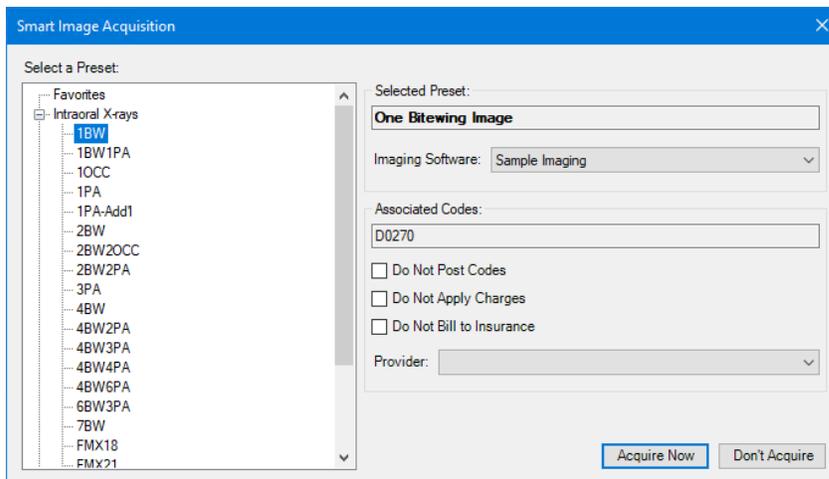
3. From the **Imaging Software** list, select the imaging software that you want to open.

4. Select one of the following options:

    • **Do Not Post Codes** – No procedure codes are posted for the acquisition.

    • **Do Not Apply Charges** – The amount of posted procedure codes is set to $0.

    • **Do Not Bill to Insurance** – Posted procedure codes are not billed to insurance providers.

5. To change the provider, click the Down arrow, and select the appropriate provider from the list.

6. Click **Acquire Now**.

    The imaging application opens from which you can select the template and acquire the images.

Adding Custom Presets

You can define and add custom presets to Dentrix Smart Image for all workstations to ensure procedures are described consistently and accurately.

To add a custom preset

1. In the **Smart Image** panel, click the Show Smart Image Preferences icon.

    The **Smart Image Preferences** dialog box appears.
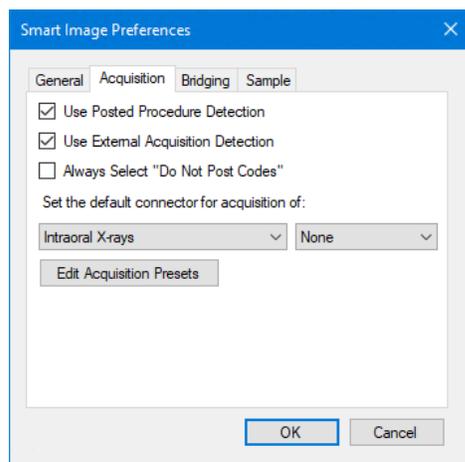
2. Click the **Acquisition** tab.

3. Click **Edit Acquisition Presets**.

    The **Acquisition Preset Editor** dialog box appears.
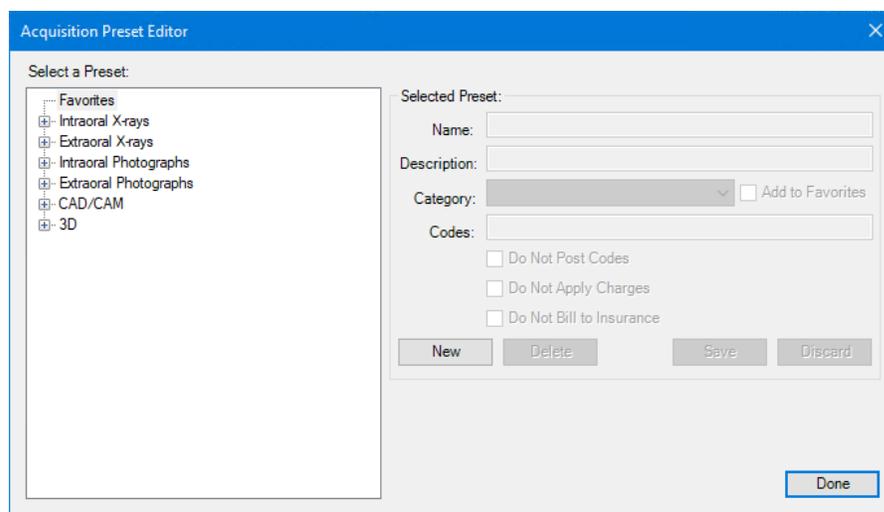
4. Click **New**.

    The options under **Selected Preset** become editable.
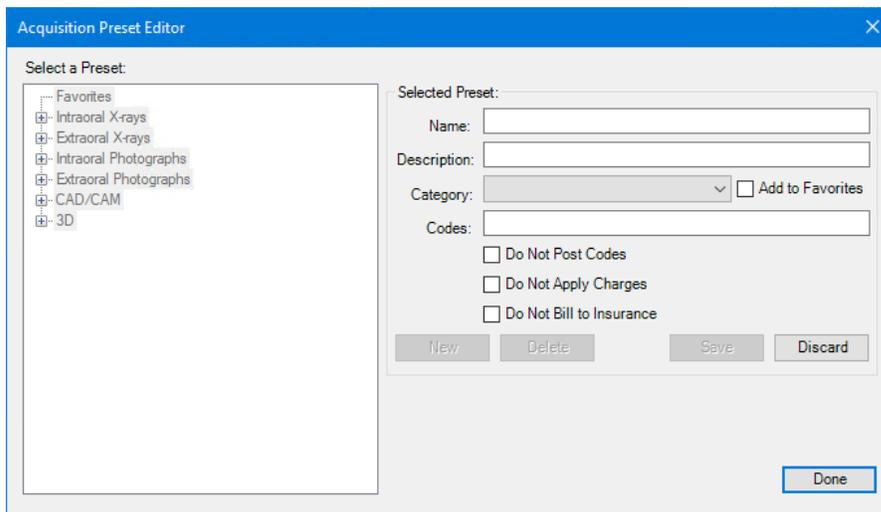
5. Under **Selected Preset**, complete the following:

    • **Name** – Type a name for the preset, such as 1BW.

    • **Description** – Type a description, such as One Bitewing Image.

    • **Category** – Select a category.

    • **Codes** – Type the associated procedure code.

6. To add the preset to your favorites list, select **Add to Favorites**.

7. Click **Save**, and then click **Done**.

Adding Image Types to the Favorites List

Using Dentrix Smart Image, you can add the presets you use most frequently to the Favorites list thus reducing the number of steps you need to take to describe and document your image acquisitions.

To add an image type to the favorites list

1. In the **Smart Image** panel, click the Show Smart Image Preferences icon.

    The **Smart Image Preferences** dialog box appears.
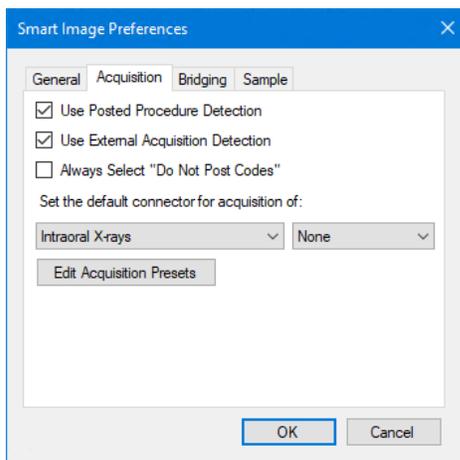
2. Click the **Acquisition** tab.

3. Click **Edit Acquisition Presets**.

    The **Acquisition Preset Editor** dialog box appears.
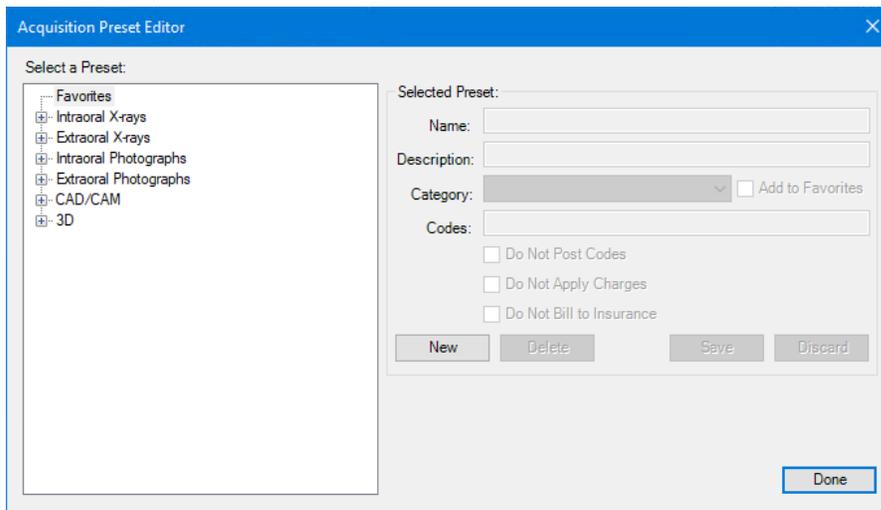
4. Do one of the following:

    *   To add a custom preset to the **Favorites** list, click **New**.
    *   To add an existing preset to the **Favorites** list, select it from the **Select a Preset** list.

5. Select **Add to Favorites**, and then click **Save**.

    The following warning appears.
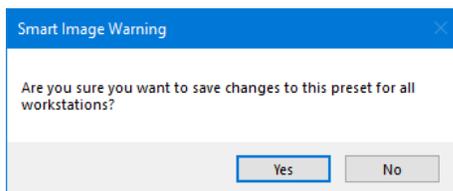
6. Click **Yes**.

    The selected preset is added to the **Favorites** list.
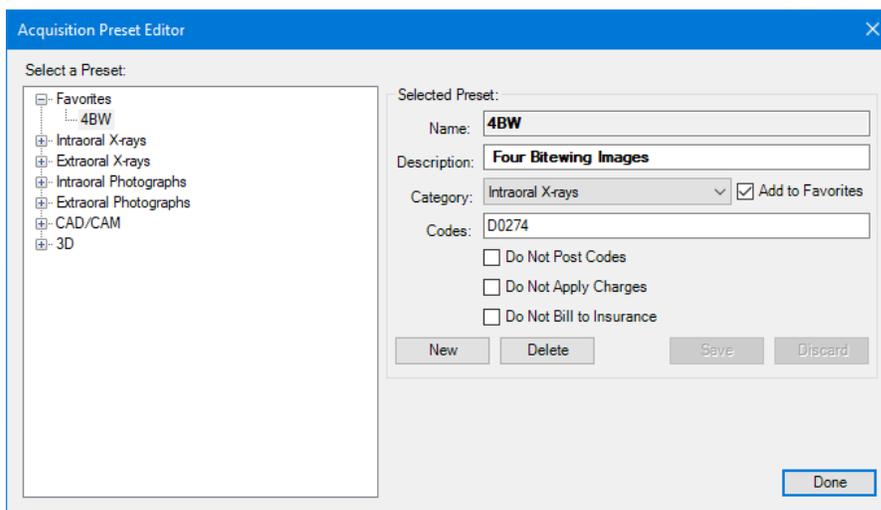
7. Click **Done**.

The following warning appears.
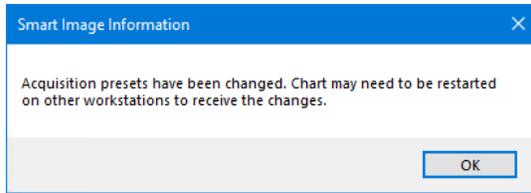
8. Click **OK**.

Viewing the Most Recent Images

You can quickly view the most recent images you acquired. To view an image in the Patient Chart, click it. To view an image in its respective imaging software application, double-click it.

To view the most recent images

1. In the Smart Image toolbar, click the Show the Most Recent 2D/3D and CAD/CAM Images button.

    The **Smart Image Most Recent Viewer** appears.
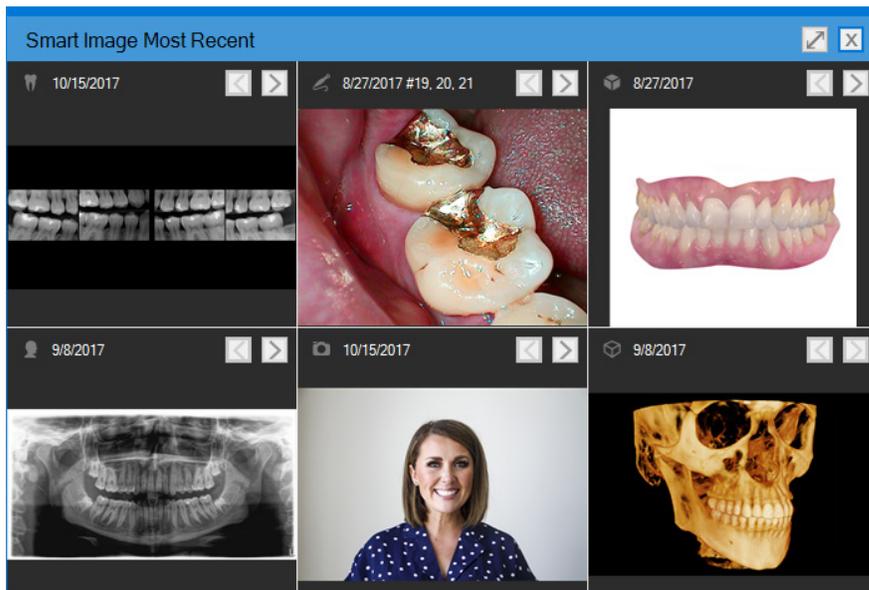
2. To re-size the viewer to full screen, click the Re-size button next to the Close button in the upper-right corner of the viewer.

3. To page through the images, click the left- or right-arrow buttons.

Viewing Images of Selected Teeth

You can view the images of teeth you selected in the Graphic Chart panel of the Patient Chart.

To view images of selected teeth

1. In the Graphic Chart, select one or more teeth that you want to view the images of.

2. In the Smart Image toolbar, click the Show Images for the Select Teeth in Chart toolbar button.

   The **Smart Image Peek Viewer** for the selected teeth appears.
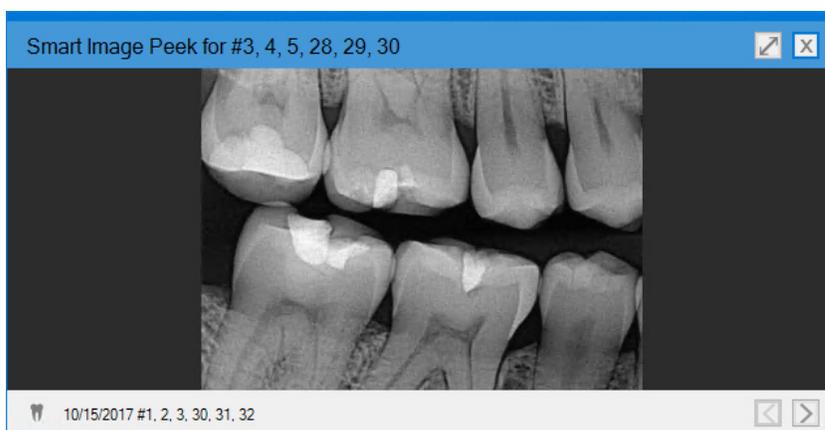
3. To page through the images for the selected teeth, click the left- or right-arrow buttons in the lower-right corner of the viewer.

4. To re-size the viewer, click the Re-size button adjacent to the Close button in the upper-right corner of the viewer.

Viewing Thumbnails of All Images

By default, the images you have taken appear as thumbnails in the Smart Image panel. If you have closed the Smart Image panel, you can re-open it from the Smart Image toolbar.

To view thumbnails of all images

1. In the Smart Image toolbar, click the Show Thumbnails of All Images button.

   The **Smart Image** tab and panel appear in the Patient Chart.
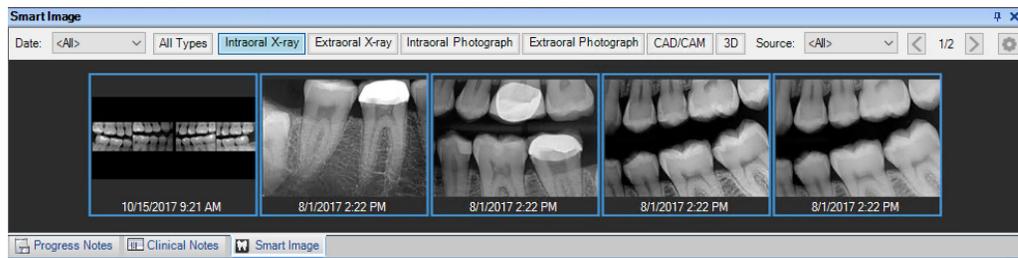
2. To close the **Smart Image** panel, click the Close icon (X) in the upper-right corner of the panel.

Viewing Images in the Smart Image Panel

You can view images in the **Smart Image** panel in the **Diagnostic Viewer** or in the application software that is associated with the image.

To view an image in the Smart Image panel

1. In the **Smart Image** panel, click the image that you want to view.

    The **Diagnostic Viewer** appears.
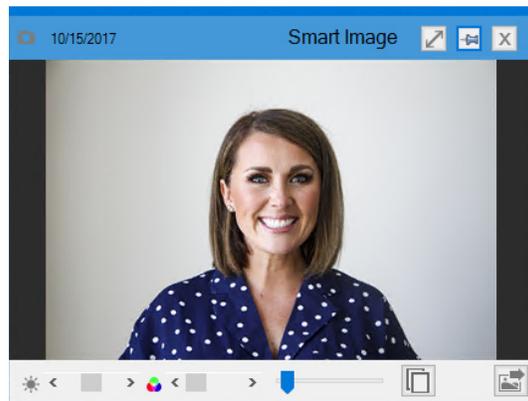
    If more than one image is represented by the image in the image bar, the following dialog box appears.
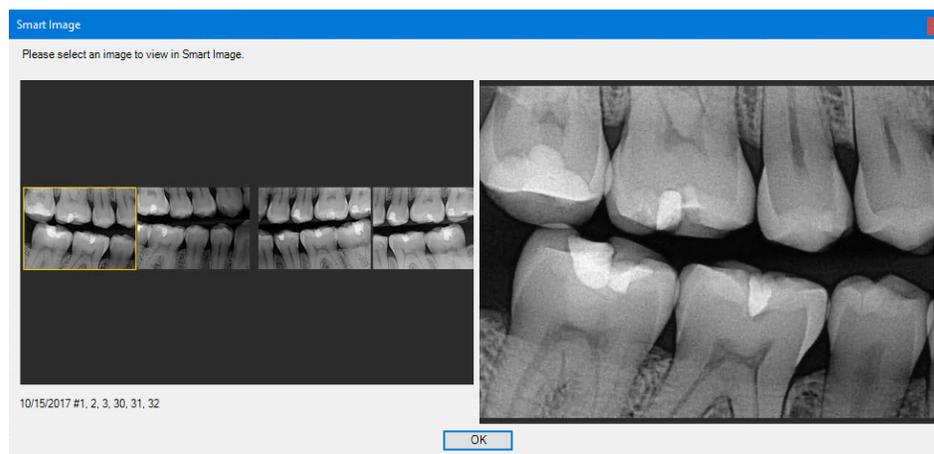
    Click the image you want to view from the list, and then click **OK**.

    The **Diagnostic Viewer** appears with the image you selected.
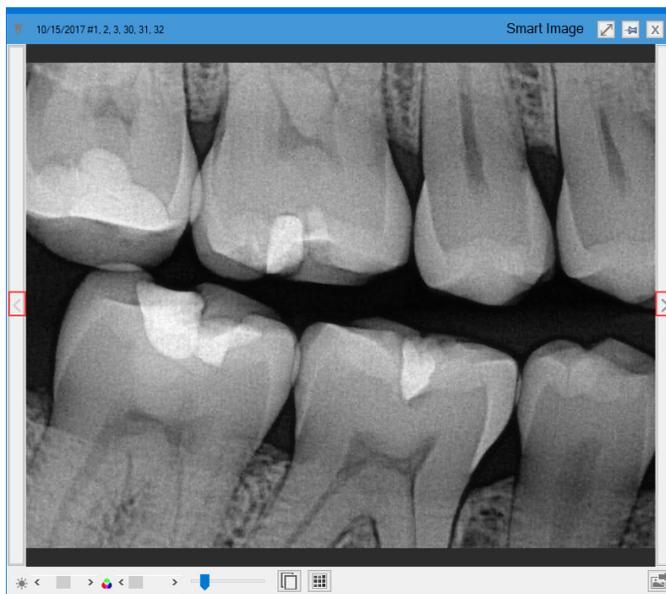
2. If necessary, do one of the following:

    •   To move from one template exam image to another, click the Next/Previous buttons (outlined in red in the sample image).

    •   To export the image, click the **Click to export this image** icon, and then click one of the following options:

        •   **Copy to clipboard**

        •   **Save as file**

        •   **Send in an email**
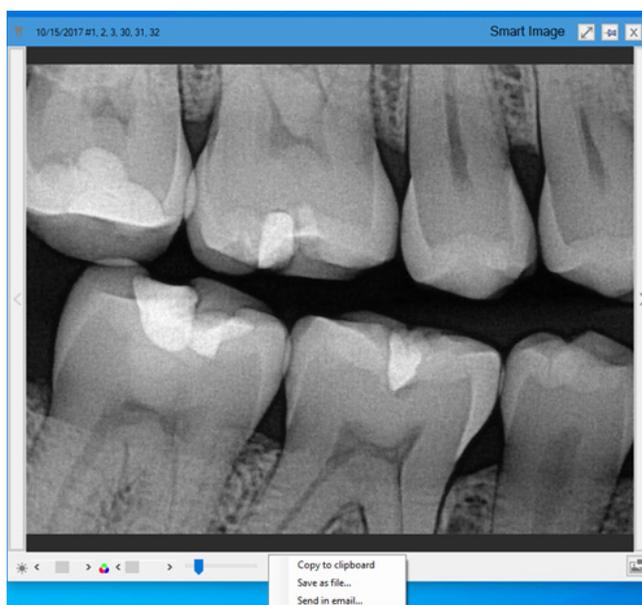
    •   To select an image related to this image, click the **Click to select an image from a list of images related to this image** icon.

- To open the imaging software associated with this image, double-click the image, or click the **Click to launch the imaging software associated with this image and instruct it to load this image** icon.
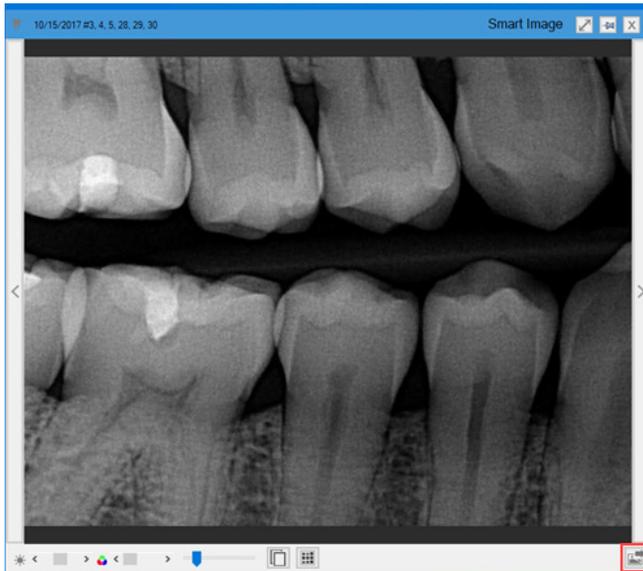
3. To pin an image, click the Pin button in the **Diagnostic Viewer**.

   Note: You can pin up to four images, so you can view them all at once.

4. To adjust the image's gamma (left-most slide bar), contrast (middle slide bar), and/or zoom ratio settings (right-most slide bar), use the slide bars to increase or decrease these settings.

   Note: Any changes you make to an image (gamma—brightness—and contrast) are temporary. You can reset any changes by closing the viewer, double-clicking the image, or clicking the gamma and contrast icons.

Changing Smart Image Preferences

You can view and change the Smart Image default settings.

To change Smart Image preferences

1. In the **Smart Image** panel, click the Show Smart Image Preferences button.

    The **Smart Images Preferences** dialog box appears.
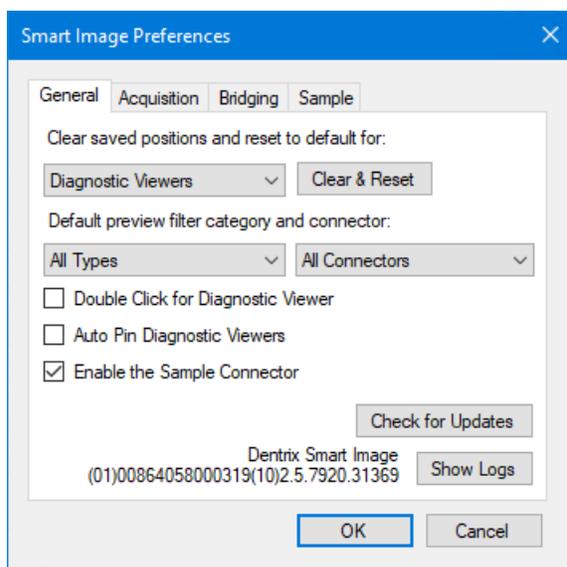
2. To reset saved positions to their default settings, under **Clear saved positions and reset to default for**, click one of the following options from the list, and then click **Clear & Reset**:

    *   **Diagnostic Viewers** –
    *   **Most Recent Acquisitions** –
    *   **Smart Image Peek** –
    *   **Attachment Picker** –

3. Under **Default preview filter category and connector**, click one of the following options in the **All Types** and **All Connectors** lists:

    *   **All Types** – Default
    *   **Intraoral X-rays** –
    *   **Extraoral X-rays** –
    *   **Intraoral Photographs** –
    *   **Extraoral Photographs** –
    *   **CAD/CAM** –
    *   **3D** –
    *   **All Connectors** –
    *   **Dentrix Imaging Center** –
    *   **Sample Imaging** –

4. Select one or more of the following options to enable them:

    *   **Double Click for Diagnostic Viewer** –
    *   **Auto Pin Diagnostic Viewers** –

- **Enable the Sample Connector** –

    Note: To completely enable the sample connector, you must close and then reopen the Patient Chart.

5. To view the Smart Image log files, click **Show Logs**.

    - **Diagnostic Viewers**

    - **Most Recent Acquisitions**

    - **Smart Image Peek**

6. To turn off posted procedure detection, click the **Acquisition** tab, and then clear the **Use Posted Procedure** option.

    Note: With the **Use Posted Procedure Detection** option selected, Smart Image monitors the Patient Chart and prompts you for acquisition after you post a procedure manually.
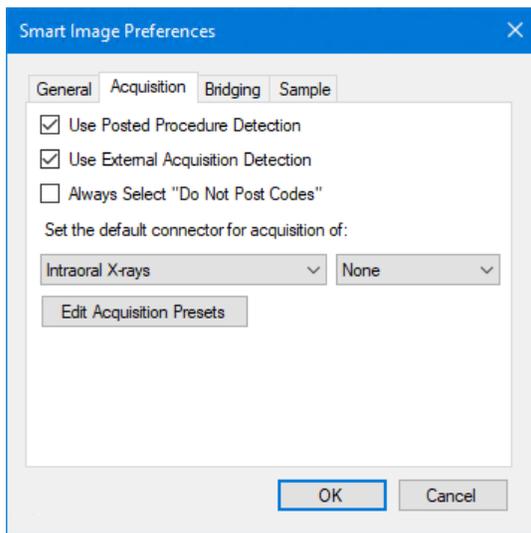
7. To never post codes, select **Always Select "Do Not Post Codes."**

8. To set the default connector for the acquisition of a specific image type, select the type from the list (Intraoral X-rays, for example), and then select the connector from the list on the right.

9. To modify a connector's configuration settings, click the connector tab.

    The configuration settings for the connector appear.
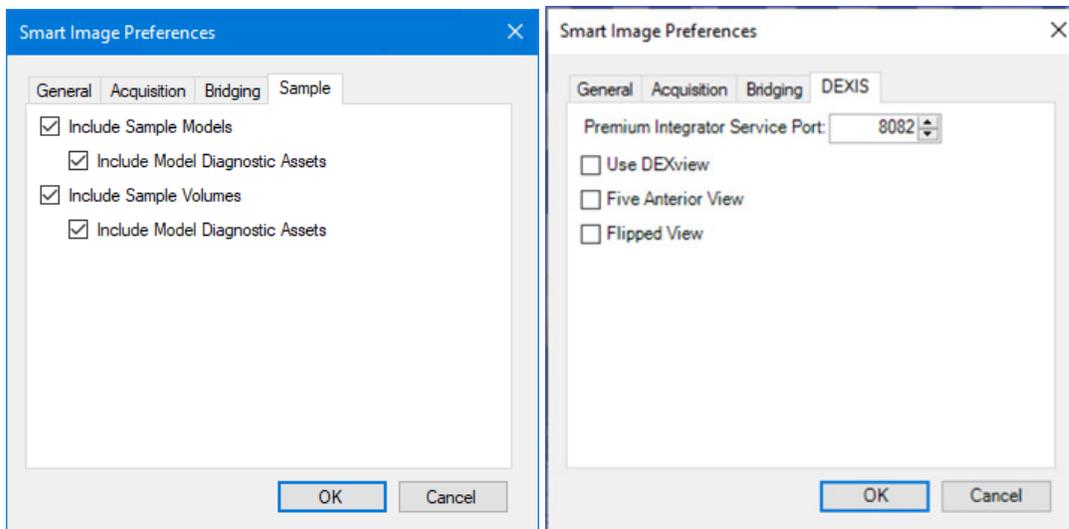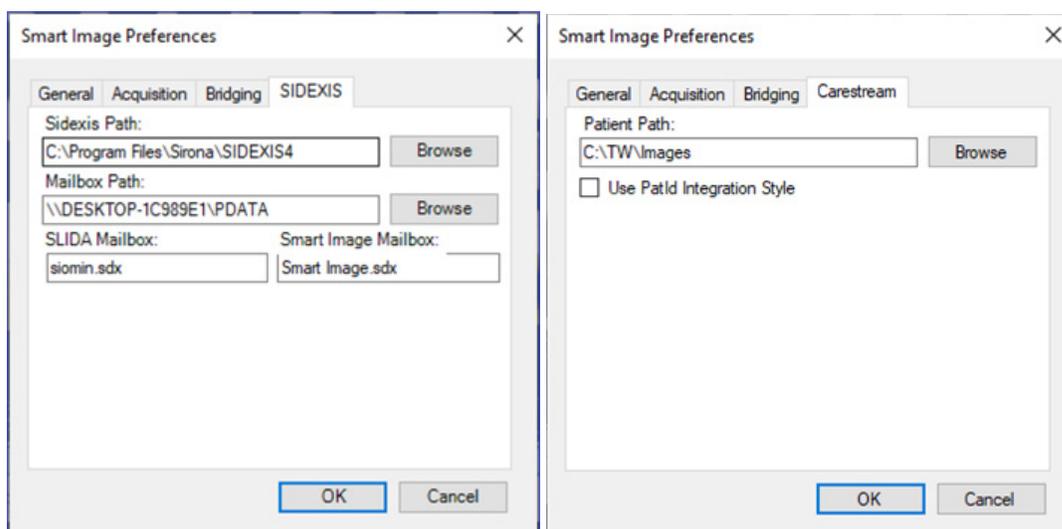
10. Click **OK**.

Viewing the Smart Image Unique Device Identifier (UDI) and Version Number

You can view the Smart Image UDI and version number in the **Smart Image Preferences** dialog box.

To view the Smart Image UDI and version number

1. In the **Smart Image** panel, click the Show Smart Image Preferences button.

   The **Smart Images Preferences** dialog box appears.
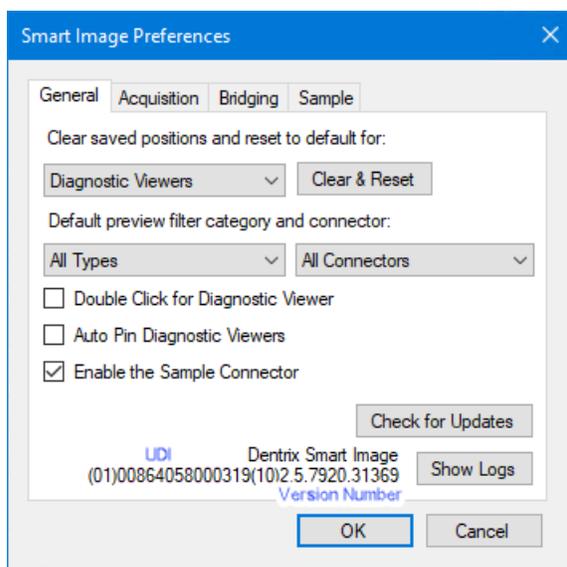
   The UDI and version number appear adjacent to the **Show Logs** button. The UDI begins and ends with numbers in parentheses. In this example, the UDI is (01)00864058000319(10), and the version number follows 2.2.7467.27974.

2. Click **OK** or **Cancel** to close the **Smart Image Preferences** dialog box.

Setting a Default Connector for Each Acquisition Mode

You can set a default connector for each acquisition mode.

To set a default connector

1. In the **Smart Image** panel, click the Show Smart Image Preferences button.

   The **Smart Image Preferences** dialog box appears.
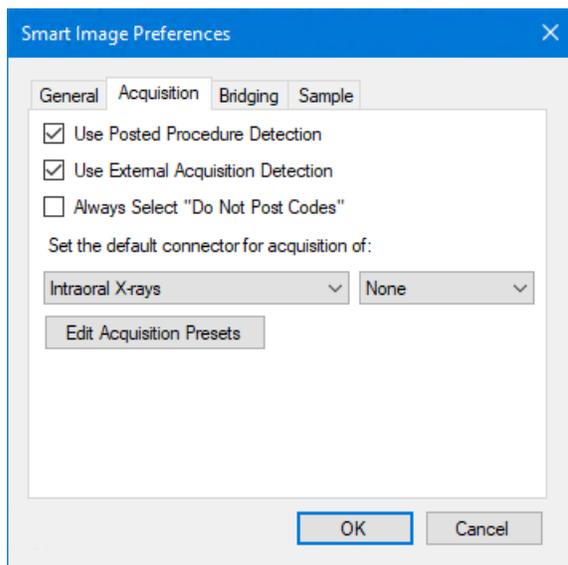
2. Click the **Acquisition** tab.
3. To set the default connector, complete the following:
   - Select the type of image you want to acquire from the list on the left.
   - Select the connector you want to use from the list on the right.
4. Click **OK**.

Resetting Connector Preferences

You can clear saved positions and reset connectors to their default settings. These settings may differ depending on the connector you have installed.

To reset connector preferences

1. In the **Smart Image** panel, click the Smart Images Preferences button.

   The **Smart Image Preferences** dialog box appears.
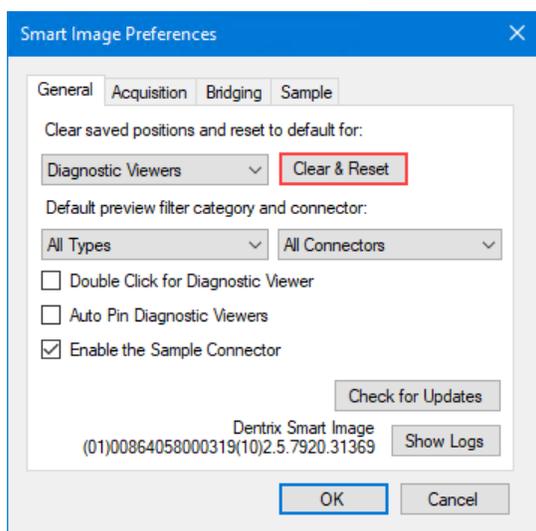
2. Click **Clear & Reset**.

3. Click **OK**.

Updating Smart Image

You have two ways to update Smart Image: manually or automatically.

Note: The update feature automatically checks for both required and optional updates to Smart Image. If an update is required, you receive a notification of the update automatically, and the Smart Image Auto Update dialog box appears from which you can download and install the update immediately or choose to be reminded later. You must check for optional updates manually.

To update Smart Image manually

1. In the **Smart Image** panel, click the Smart Images Preferences button.

    The **Smart Image Preferences** dialog box appears.
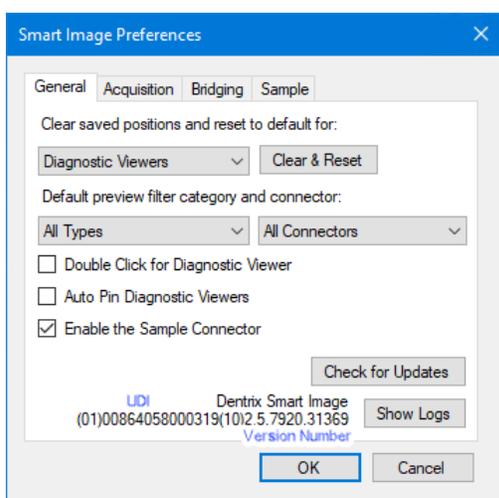
2. Click **Check for Updates**.

    If an update is available, the **Smart Image Auto Update** dialog box appears.

Smart Image Auto Update

There is an update ready for Dentrix Smart Image.

Do you want to download and install the update now?

After the update finishes downloading Chart will be closed and the update will be automatically installed. Please select Yes on any prompts to allow software to be installed during this process.

Remind Me Later   Download And Install
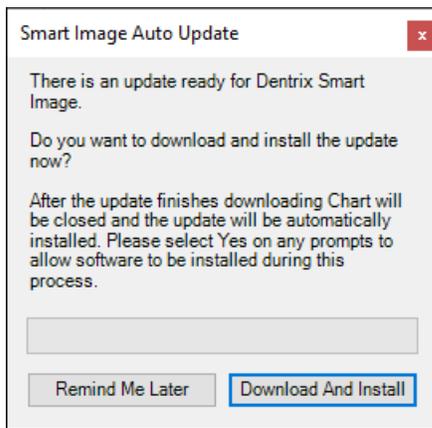
3. To install the update immediately, click **Download and Install**.