Dentrix Imaging Center Canada

USERS GUIDE

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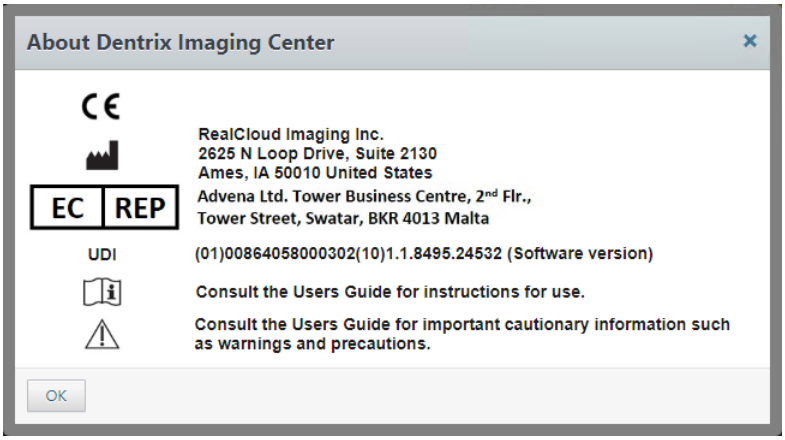
VERSION

To view the Dentrix Imaging Center version number and Unique Device Identifier (UDI), click the **Show Most Recent Images** tab, and then click the **About Dentrix Imaging Center** link in the lower-right corner. The **About Dentrix Imaging Center** dialog box appears displaying the product labeling, UDI, and software version number.



Contents

Dentrix Imaging Center Canada

Overview

The Dentrix Imaging Center is a 2D and 3D dental imaging software module that interacts seamlessly with the Dentrix to provide efficient and versatile image management. Dentrix Imaging Center manages intraoral and extraoral X-rays/volumes as well as intraoral and extraoral color images produced by intraoral video and/or consumer digital cameras.

You can acquire, import, export, view, and edit 2D images and 3D volumes of dental anatomy. Dentrix Imaging Center supports the acquisition of images from many brands of intraoral and extraoral imaging devices, which allows you to mix and match imaging devices and brands of equipment as needed.

All images that you acquire or import are uploaded immediately to the Dentrix database.

Dentrix Imaging Center has many image processing tools (such as filters and enhancements) that you can use on images to help determine the necessary treatments for patients. Also, you can attach images that you acquire and import to dental e-claims.

Dentrix Imaging Center is available as an add-on and must be purchased separately from the Dentrix practice management program.

Dentrix Imaging Center is used for diagnostic purposes in the field of dentistry.

By default, Dentrix Imaging Center uses lossless compression for all intraoral and extraoral x-ray images, which is 100 percent reversible and does not result in loss of data. Optionally, you can configure Dentrix Imaging Center to use lossy JPEG compression when acquiring intraoral and extraoral images, which is not 100 percent reversible and does result in loss of data. The JPEG compression Q factor used in Dentrix Imaging Center is Q96, which is considered near perfect quality. Dentrix Imaging Center uses lossy compression (JPEG) for all intraoral and extraoral color images.

Contact Dentrix Customer Support if you have any questions or comments regarding Dentrix Imaging Center. See the "Customer Support" section of this user's guide for contact information.

Real Cloud Imaging (RCI), the creators of the Dentrix Imaging Center technology, have registered Dentrix Imaging Center with the Health Canada (HCA) as a Class II Medical Data System.

Indications for Use

- Dentrix Imaging Center is a Dental Picture Archiving and Communications Systems (PACS), dental imaging software, that enables dental care facilities to acquire, process, edit, and enhance dental images.
- Dentrix Imaging Center provides an interface for image acquisition and management of images used in the field of dentistry.
- Images can be acquired from dental image acquisition devices and/or consumer imaging devices such as color digital cameras. Previously acquired images or volumes can be uploaded directly from the computer.
- Supported images include intraoral and extraoral dental X-rays/volumes and intraoral and extraoral color images produced by intraoral video or consumer digital cameras.
- Dentrix Imaging Center is used for diagnostic purposes in the field of dentistry.
- Dentrix Imaging Center is not intended for diagnostic use on a mobile display.
- Images can be edited/enhanced (zoomed, contrast adjusted, inverted, annotated, rotated, filtered, and so on) and exported to standard image file formats.

Precautions

- Dentrix Imaging Center is a Health Canada regulated class II medical device designed for viewing existing clinical images acquired via an imaging (PACS) system.
- Dentrix Imaging Center is intended to be used in combination with other approved medical devices. To ensure Dentrix Imaging Center does not impair performance, the other approved medical device

must be functional and working per the manfactures IFU before using in combination with Dentrix Imaging Center.

- Dentrix Imaging Center is designed for use in the field of dentistry. Federal law restricts Dentrix Imaging Center to sales by or on the order of a dentist.
- To effectively use the Dentrix Imaging Center software, it is strongly recommended that all users obtain dedicated training on the use of Dentrix Imaging Center software prior to use on any patients.
- Read and understand the User's Guide in its entirety before using the Dentrix Imaging Center software on 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 Imaging Center software upon patients if you are feeling ill, fatigued, or if you are experiencing lack of concentration.
- Do not leave any computer/device that is operating Dentrix Imaging Center software unattended as this can create a security risk to the patient or practice data.
- Contact Dentrix Customer Support you have any questions or comments regarding the Dentrix Imaging Center software.

Prerequisites and System Requirements

To install and run Dentrix Imaging Center, the following prerequisites and system requirements must be met:

- Microsoft Windows 64-bit operating system (Windows 8 or later and Windows Server 2012 or later) updated with the latest system patches and security updates.

  Important: Microsoft discontinued support for Windows 7 and Windows Server 2008 R2 in January 2020. While Dentrix and Dentrix Imaging Center will work with Windows 7, it is not recommended, since Microsoft no longer provides security updates for Windows 7. Dentrix Imaging Center will NOT work with Windows Server 2008 R2.

- Server and client hardware requirements for Dentrix Imaging Center depend on the imaging devices used with Dentrix Imaging Center. Consult your imaging device manufacturer to confirm the server and client requirements for each image device used in your practice.
- The disk space required for Dentrix Imaging Center depends on your imaging device and the size of the saved file. Please refer to your imaging device manufacturer's space requirements.
- Anti-virus software
  - Updated with the latest patches, version, and virus definitions
- Computer monitors
  - Measure at least 15-inches diagonally
  - Support 1024 x 768 resolution

  Note: For best results, always use the monitor's native screen resolution.

- Dentrix G7.3 or later
- Smart Image 2.4.1 or later (downloaded using Smart Image Preferences)
- .NET 4.7.2

Important: To use all of the features of Dentrix Imaging Center, you must use Dentrix G7.3 or later. You cannot attach images to claims automatically if you use Dentrix Imaging Center with Dentrix G7.1 or G7.2.

Backing Up the Dentrix Imaging Center Database

Backing up your Dentrix data is an important part of protecting the information in your Dentrix Imaging Center system from data loss. We strongly recommend that you implement a secure and routine backup system to reduce the risk of data loss.

Dentrix Imaging Center installs a scheduled task on the Dentrix Imaging Center database server that performs a daily backup of the Imaging Center database. The scheduled task instructs the SQL server to perform a backup of the SQL database and to store the backup in a local folder on the database server.

While there are no set rules for the frequency of your backups, we recommend that you perform a backup in daily, weekly, monthly, and quarterly intervals. We generally recommend that you perform or schedule backups at the end of the day after all patient data has been recorded in Dentrix for that day and employees have closed all Dentrix modules.

For information on why to backup, determining the correct location of your data, and guidelines for backing up, see "Backing up the Dentrix Imaging Center database" in the Dentrix Help and the Backup Recommendations document available in the Dentrix Canada Resource Centre at www.canada.dentrix.com/products/dentrix/resources.

Note: Dentrix Customer Support representatives are not trained on setting up third-party backup programs and are not able to assist you with these steps. Please contact your network support representative or the backup software's technical support for assistance.

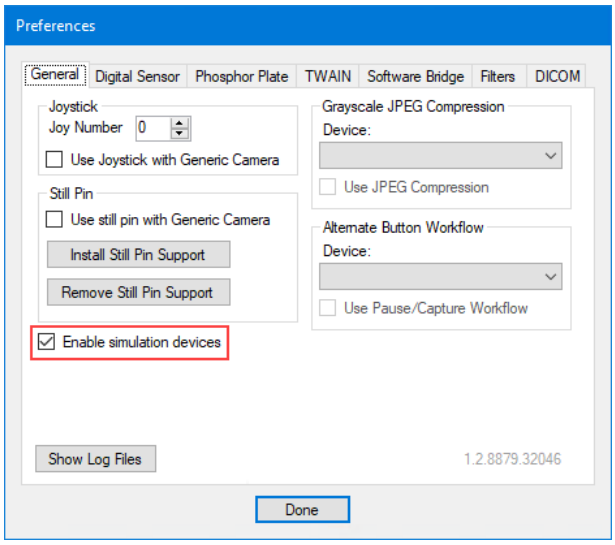
Enabling Simulation Mode

You can use the simulation mode to train your employees on how to use Dentrix Imaging Center.

To enable simulation mode

1. Click the Acquisition Agent icon ( ) in the Microsoft Windows system tray, and then click **Preferences**.

   The **Preferences** dialog box appears.



2. Select **Enable simulation devices**, and then click **Done**.
3. Open the Dentrix Imaging Center, and then click the **Acquire Images** tab.
4. Under **Imaging Procedures**, click the procedure you want to simulate, and then click **Proceed with Acquisition**.

   Note: For further details on acquiring images, please refer to "Acquiring Images."

Acquiring Images

You can acquire or import a single image or a set of images. You can also quickly acquire images for selected teeth. You can also resume single-image X-ray exams and change an exam's name.

Notes:

- Images in "Display all images in template/mount mode" include tooth numbers and capture date. The Schick 33 sensor includes the Edge High image enhancement option.
- You can acquire 3D volumes with third-party programs. (See "Supported Acquisition Devices" for a list.) You can save and store workups, which allows yo to create additional workups in the 3D CBCT module. You can also delete these workups.

You can acquire images with a device (such as an X-ray sensor or an intraoral camera) or by importing image files (such as .png or .jpg files). The images will be attached to a patient's record upon acquisition. When you acquire images, you can customize the acquisition settings, and there are options for posting the associated procedure and billing the procedure to insurance.

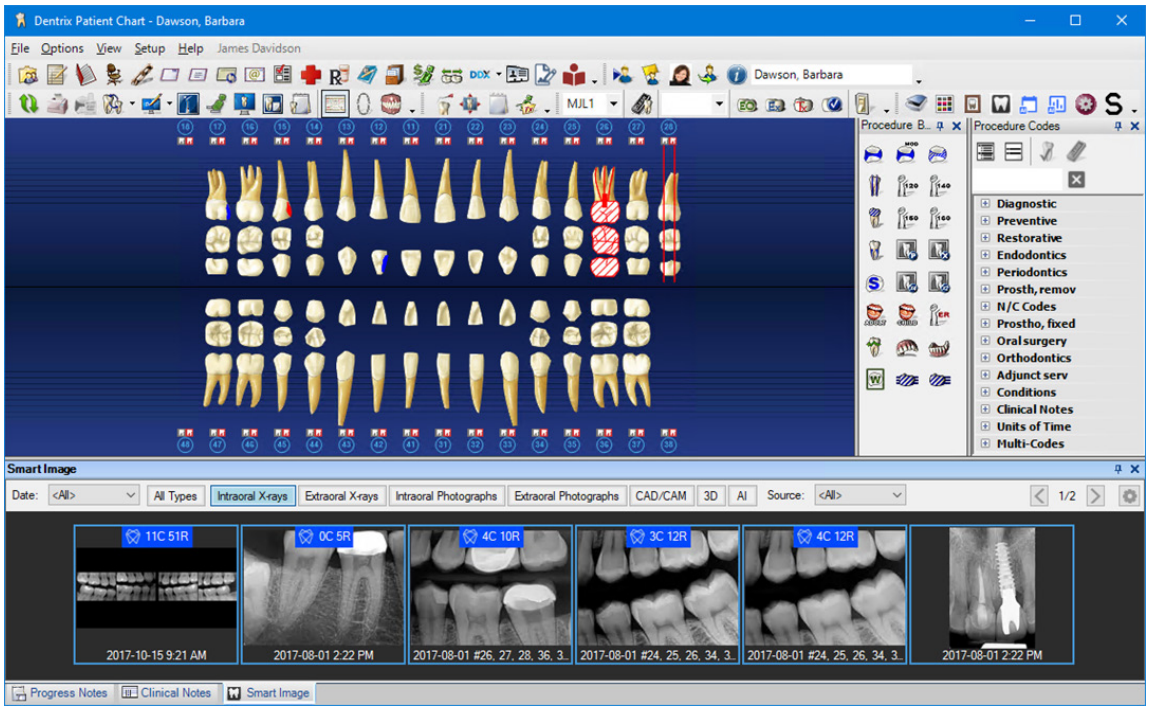
Important:

- Depending on the imaging device to be integrated, additional costs from the imaging device vendor may be required, such as the purchase of drivers, to integrate that device with Dentrix Imaging Center. Before you purchase the Dentrix Imaging Center add-on or a particular device that you want to use with Dentrix Imaging Center, consult the manufacturer of that device to verify if there will be costs to get that device working with Dentrix Imaging Center.
- Some, but not all, devices have been tested using a TWAIN driver. Using a TWAIN driver with certain devices might have unexpected results.

To acquire an image

1. Open the Patient Chart and select a patient.

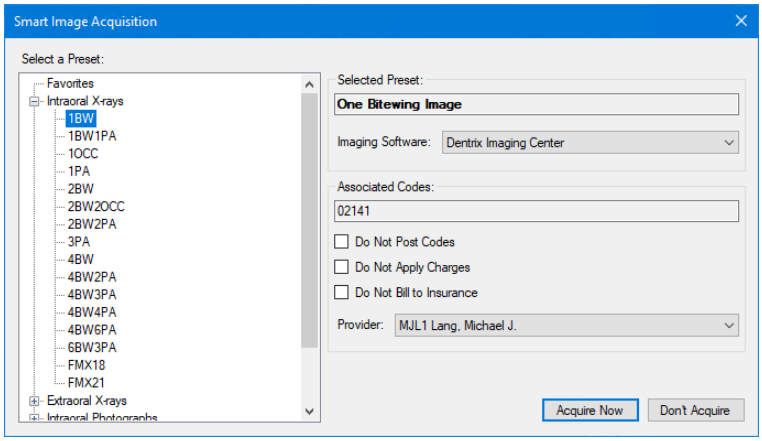
   All images pertaining to the selected patient appear in the **Smart Image** panel.



2. To acquire a new image, click the Acquire a 2D/3D or CAD/CAM Image toolbar button in the Smart Image toolbar.

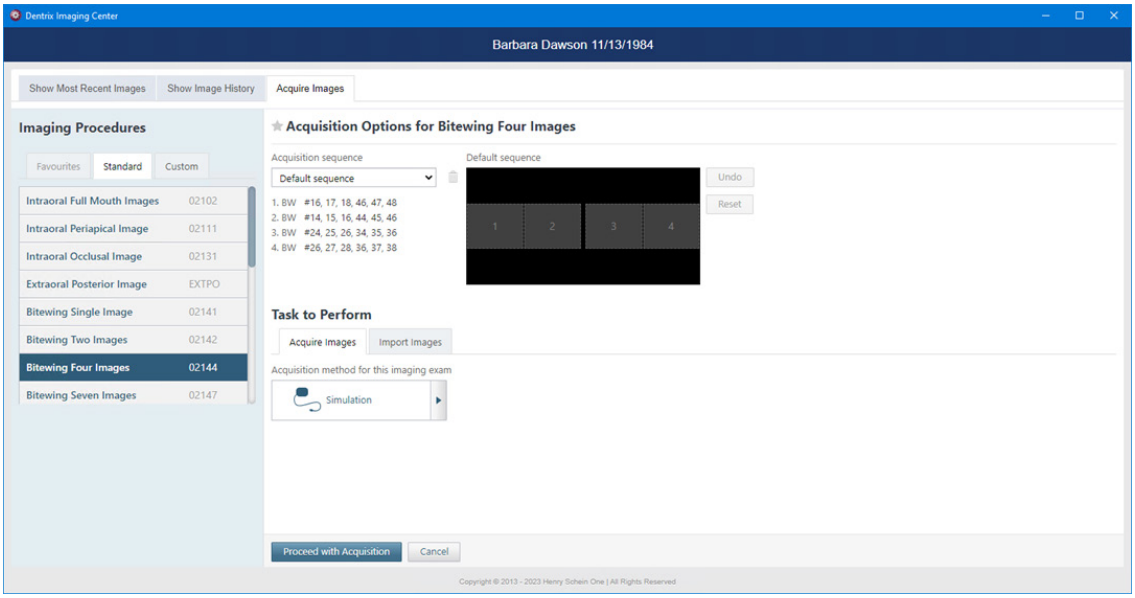
The **Smart Image Acquisition** dialog box appears.

Note: If one exists, the first favorite procedure for acquisition is selected automatically.



3. In the **Select a Preset** list, select the type of image you want to acquire, and then click **Acquire Now**.

   The **Dentrix Imaging Center** dialog box appears.



Note: Under **Task to Perform** and the **Acquire Images** tab, if the acquisition method is not already selected, click the right-arrow icon, and then select the appropriate device from the **Available Devices** pop-up list.

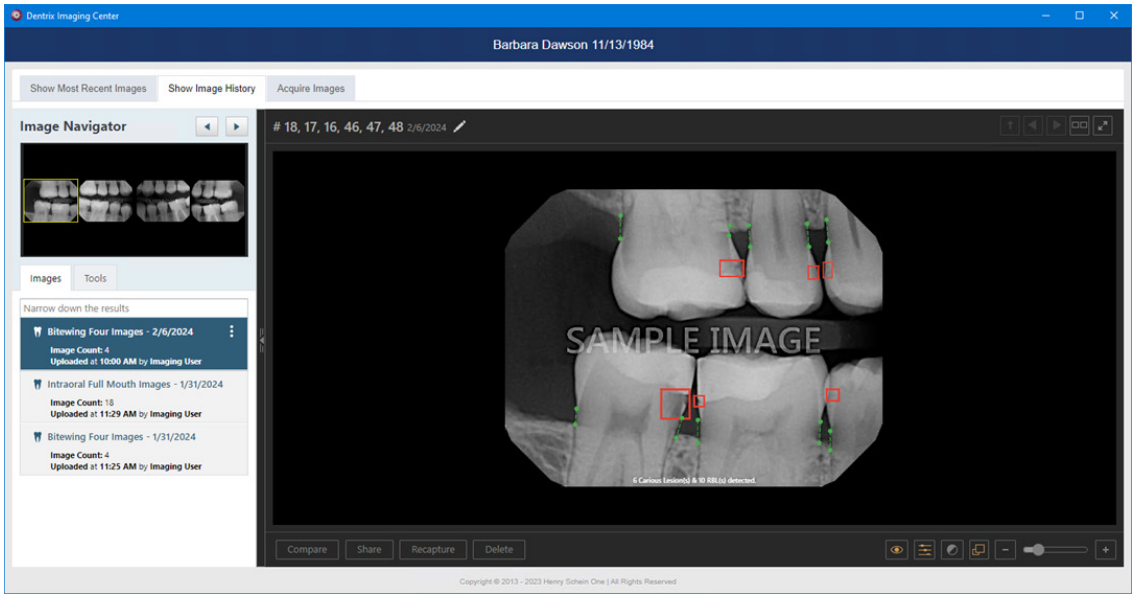
4. Click **Proceed with Acquisition** to start acquiring images for the corresponding acquisition type.

   The acquisition begins, and once complete, the captured images appear in the **Dentrix Imaging Center** dialog box.

5. If necessary, click **Finish Acquisition**.

   Note: When you are acquiring a series of images, the series finishes automatically when the last image is taken and uploaded.

   The **Dentrix Imaging Center** dialog box appears with the **Show Image History** tab selected.



Note: You can use the toolbar buttons in the **Tools** tab to apply enhancements, annotations, measurements, density levels, and effects (invert, color, zoom, sharpen, and contrast) to the image.

Acquiring Images for Selected Teeth

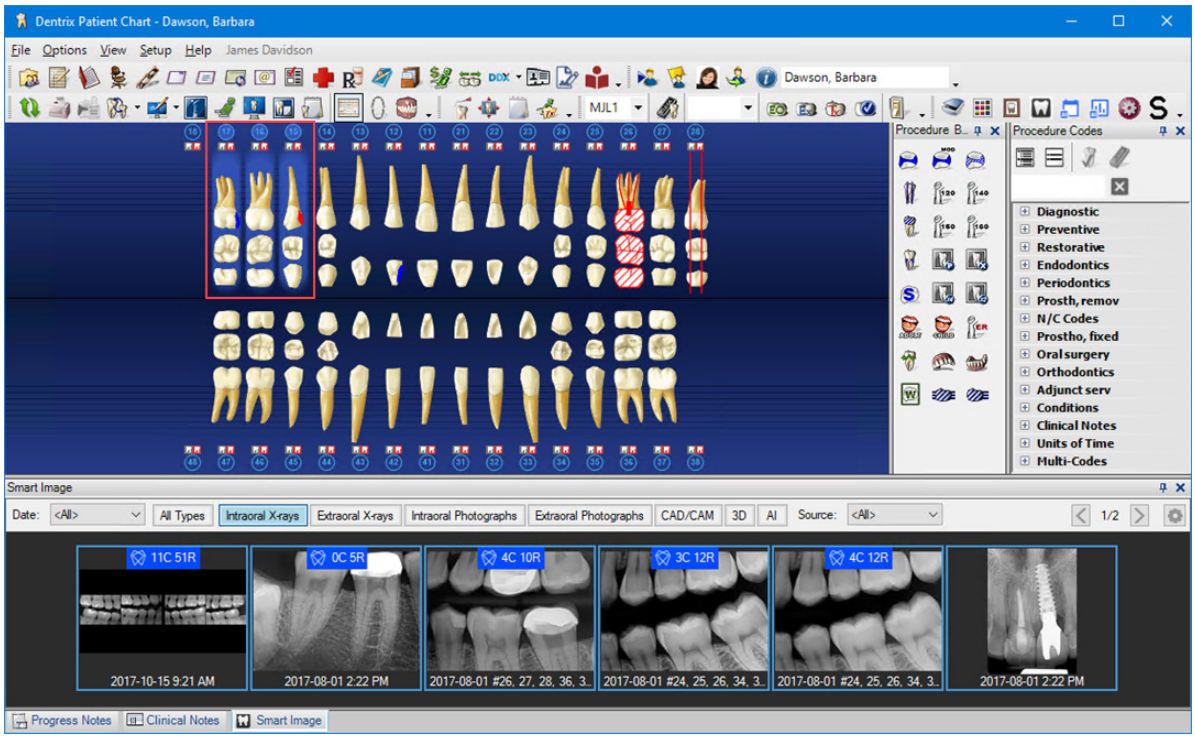
You can quickly acquire an image for teeth that you select on a patient's graphic chart.

To acquire an image for selected teeth

1. Open the Patient Chart and select a patient.

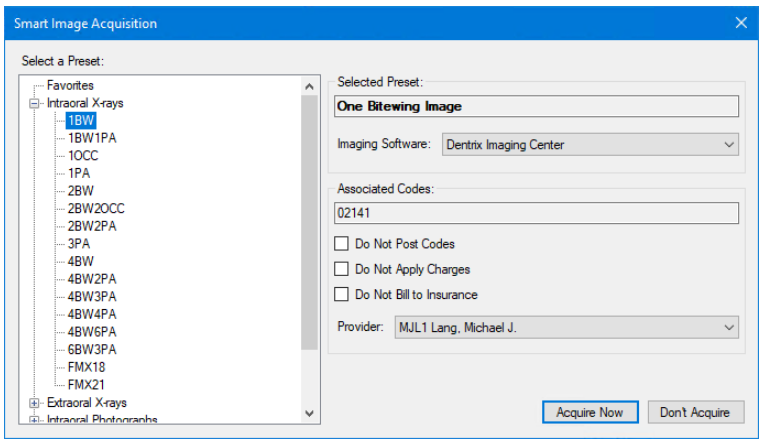
   All images pertaining to the selected patient appear in the **Smart Image** panel.

2. In the patient's graphic chart, select one or more teeth that you want to capture an image of.

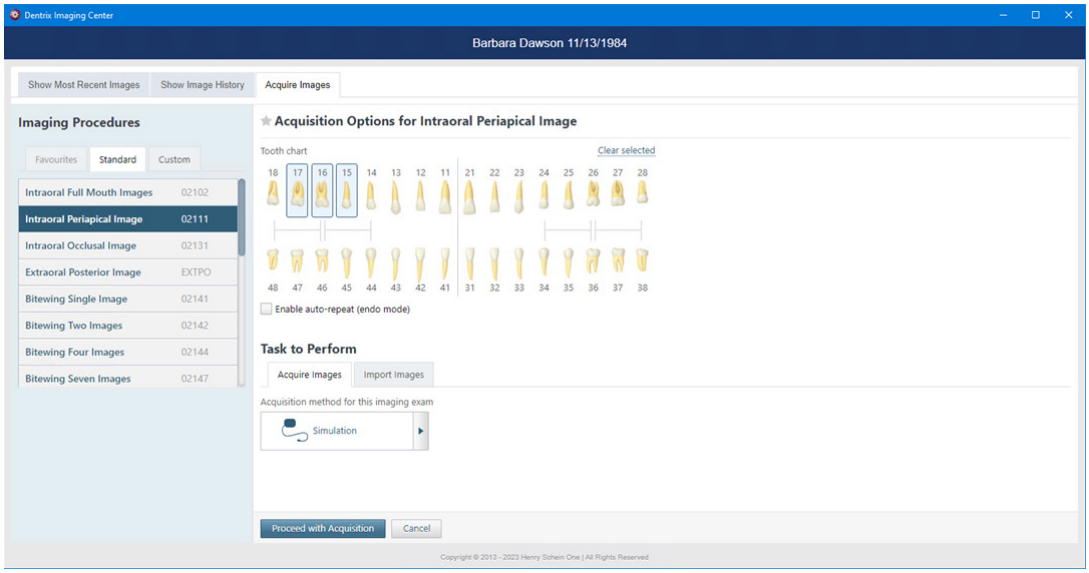


3. Click the Acquire a 2D/3D or CAD/CAM Image toolbar button in the Smart Image toolbar.
   The **Smart Image Acquisition** dialog box appears.

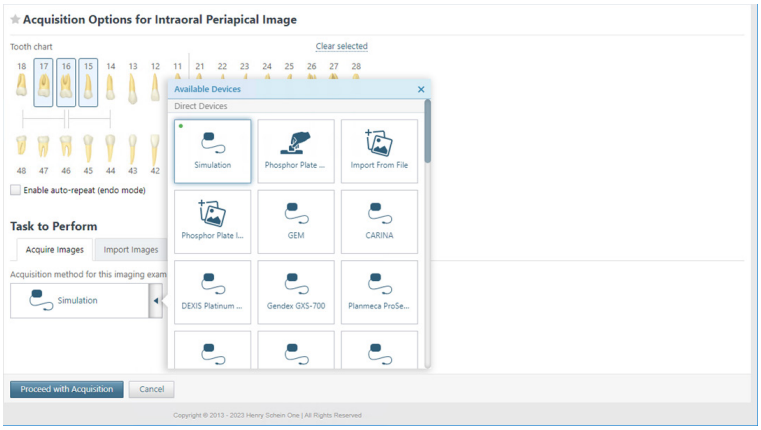
   Note: If one exists, the first favorite procedure for acquisition is selected automatically.



4. In the **Select a Preset** list, select the type of image you want to acquire, and then click **Acquire Now**.
   The **Dentrix Imaging Center** dialog box appears.



5. Complete the following steps:
   a. Select the type of image you want to acquire.
   b. In the **Tooth Chart**, click the teeth whose images you want to acquire.
   c. If it isn't already selected, under **Task to Perform**, select the acquisition method from the **Available Devices** pop-up list.



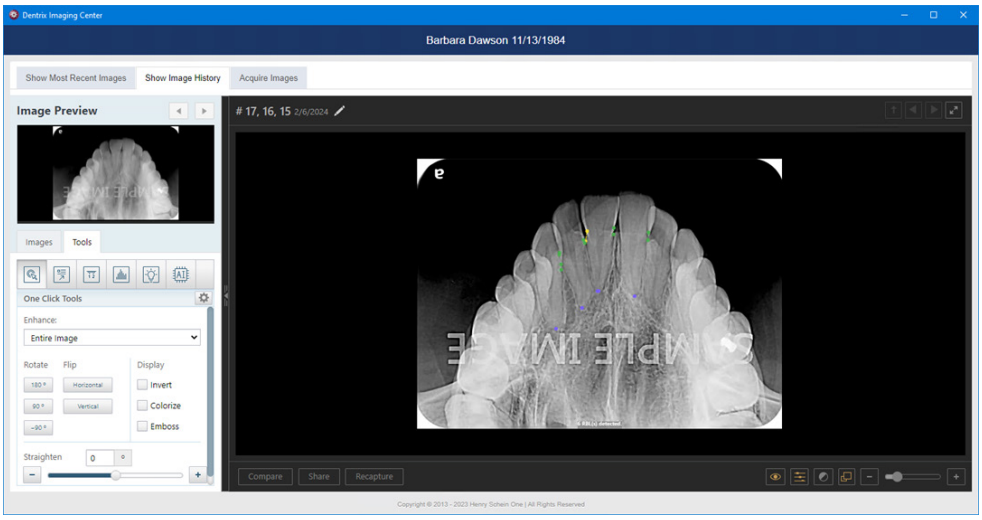
d. Click **Proceed with Acquisition**.

   The acquisition device initializes, the X-ray sensor arms, and the image appears in the **Dentrix Imaging Center** dialog box.

6. If necessary, click **Finish Acquisition**.

   Note: When you are acquiring a series of images, the series finishes automatically when the last image is taken and uploaded.

   The **Dentrix Imaging Center** dialog box appears with the **Show Image History** tab selected.



7. If necessary, use the toolbar buttons in the **Tools** tab to apply enhancements, annotations, measurements, density levels, and effects (invert, color, zoom, sharpen, and contrast) to the image.
8. Close the **Dentrix Imaging Center** dialog box.

   The image or images appear in the **Smart Image** panel in the Patient Chart.

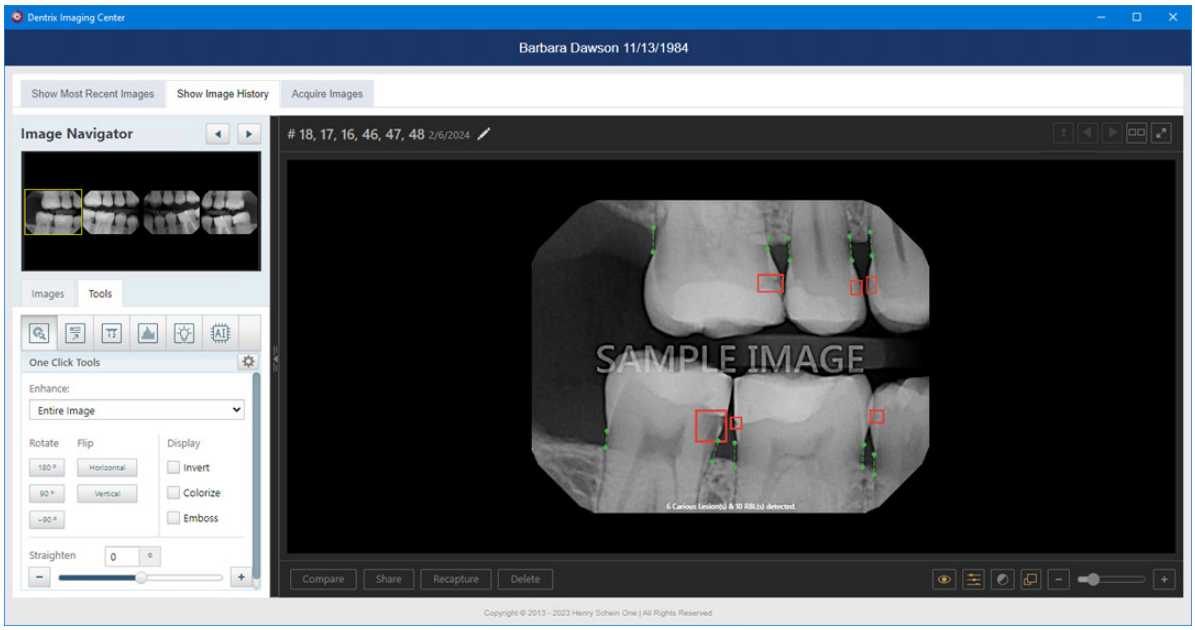
Enhancing Images

You can use the enhancement tools to adjust the brightness and contrast levels of images. You can also use the zoom control to increase or decrease an image's size.

To enhance an image

1. Acquire an image.

   The **Dentrix Imaging Center** dialog box appears with the **Show Image History** tab selected.



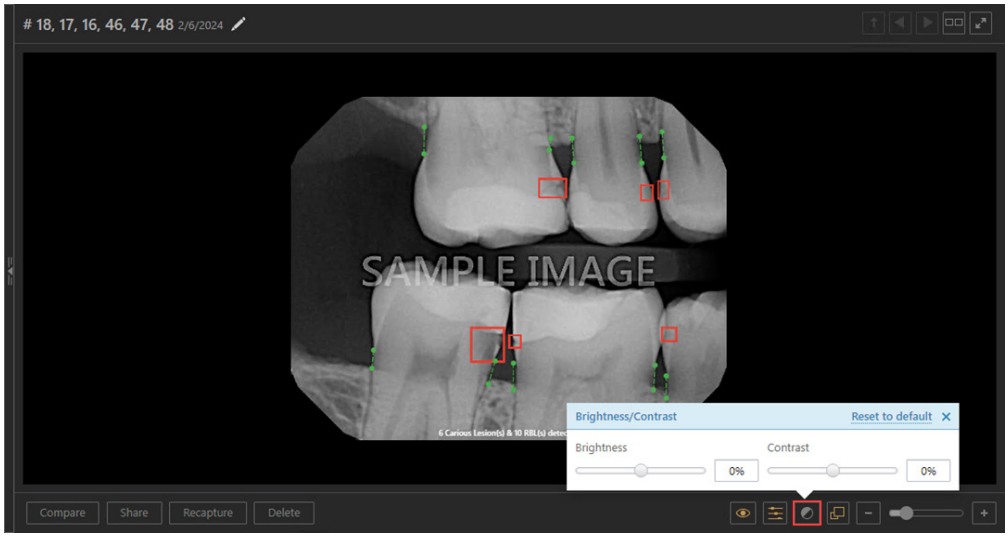
2. To show or hide annotations and measurements, click the **Show/hide annotations and measurements** button.

   If, for example, you are using Dentrix Detect AI, the caries and/or RBL indicators appear.

3. To turn image enhancement on or off, click the **Turn image enhancement on/off** button.

4. To change the brightness and/or contrast level, click the **Change brightness and/or contrast level** button.

   You can use the slider to change the brightness and/or contrast level, or you can click the image and drag your mouse pointer up to increase or down to decrease brightness. Drag the pointer to the left to decrease or to the right to increase contrast. The percentage of change appears as you drag the pointer up or down or to the left or right.



5. To display images smaller or larger, click the **Display images smaller/larger** button.

   The image appears smaller. Click the button again to return the image to its original size.

   Note: You can also click the slider buttons or use your mouse wheel to increase or decrease the size of the image.

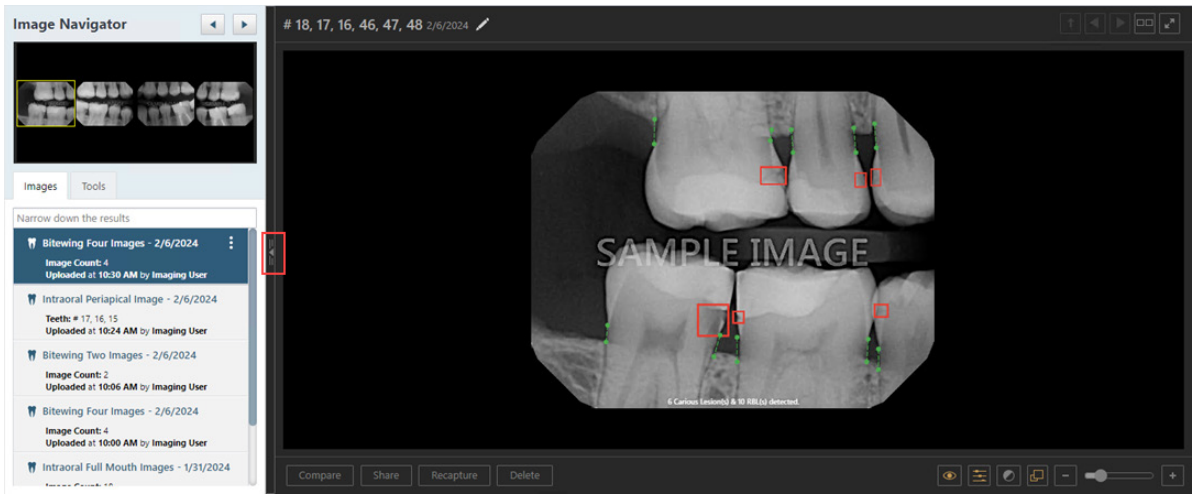
Showing and Hiding the Navigation Panel

You can temporarily hide the navigation panel to view each image for a patient individually without having to select images individually or each series or set of images. When the panel is hidden, use the buttons to navigate forward or backward through the patient's image history one image at a time.

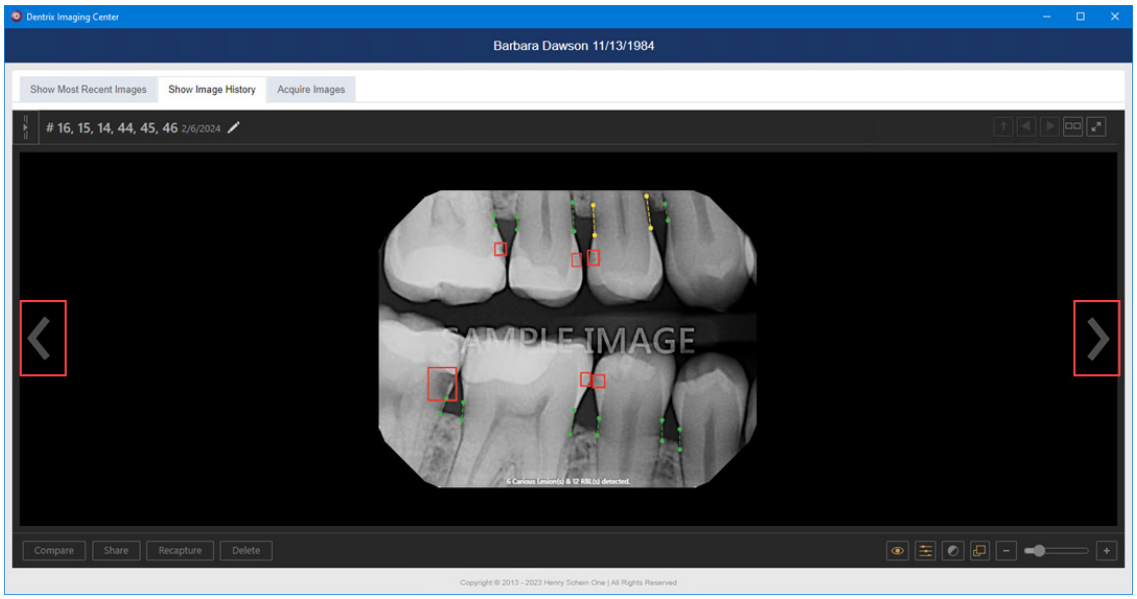
To show the navigation panel

1. Click the Show Panel button.

   For whatever type of image you are viewing (radiograph, photo, CAD/CAM scan, or 3D volume), the corresponding item in the image list is selected automatically.



2. Click the Newer (left) button or the Older (right) button to navigate between newer and older images, according to their acquisition order, as necessary.



To hide the navigation panel

Click the Hide Panel button. The viewing area continues to display whatever type of image (radiograph, photo, CAD/CAM scan, or 3D volume), you selected in the image list.

Dentrix Detect AI

Henry Schein One has partnered with VideaHealth to apply artificial intelligence (AI) analysis to new and existing bitewing images through Dentrix Imaging Center.

Dentrix Detect AI helps you with the following features:

- Detecting caries on all primary and secondary teeth of patients 3 years and older.
- Measuring interproximal Radiographic Bone Levels in bitewings and Periapical Radiographs (PAs) for patients who are at least 12 years old. Bone level detection is only possible with mesial and distal surfaces. RBL measurements appear as green, yellow, orange, or red dotted lines.
- Detecting periodontal radiolucency (PRL) for patients 22 years and older to more effectively identify bone demineralization due to infections around root apices, cysts, and other causes. PRL is indicated by a red circle or oval.
- Detecting interproximal calculus and educate your patients 12 years and older on the importance of scaling and root planing. Combined with measuring interpoxiimal radiographic bone levels, Dentrix Detect AI illustrates disease prognosis for the patient and clinician. Interproximal calculus is indicated by an orange circle or oval.
- Detecting restoration imperfections in patients 22 years and older by identifying imperfect crown and filling margins and voids. A restoration imperfection is indicated by a yellow rectangle.

Acquiring Bitewings for Automatic AI Analysis

You can use Dentrix Detect AI to make diagnoses more accurate and improve patient trust. Currently, caries detection works only with individual bitewings or a series of bitewings and only for patients who are at least 3 years old.

Important: Before using Dentrix Detect AI, you must update Smart Image to the latest version. For more information, please refer to "Updating Smart Image" in the Dentrix Help.

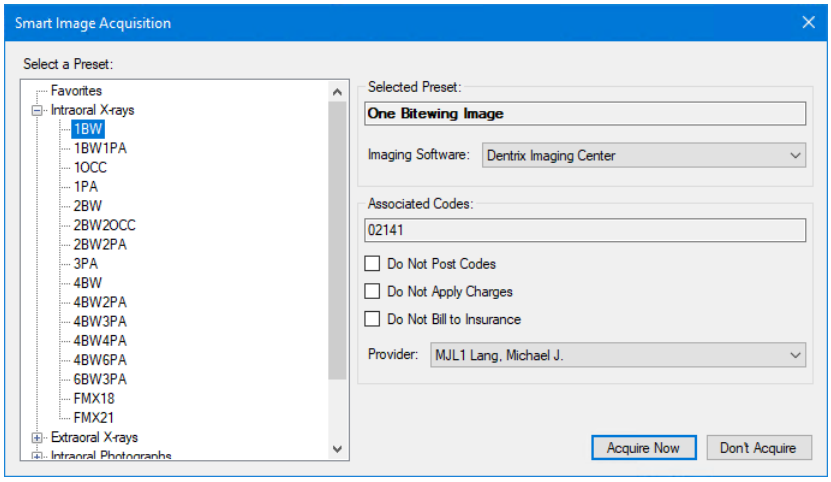
Notes:

- All new bitewing images are automatically submitted to VideaHealth for analysis.
- The Videa Manual Submit button allows you to submit bitewing images that do not have Videa analysis.
- The Launch to Videa link displays results and additional information directly in the Videa Detect application.
- The Videa IFU and About links display the Videa Indications for Use and About information required by the HCA.
- You can log in automatically to the VideaHealth website through a "magic link" token that is generated when you click the Launch to Videa or Videa IFU links.
- The Videa Analysis Messages display any returned information and warning or error messages about the AI analysis.
- The Show/Hide check box turns the display of the Videa analysis results on or off.
- Images are are automatically resubmitted to Videa AI after they are rotated.
- During submission, **Acquisition Status** reads: UPLOADING IMAGE(S) TO AI PROVIDER.
- AI results also show in big template mode.

To acquire a bitewing for automatic AI analysis

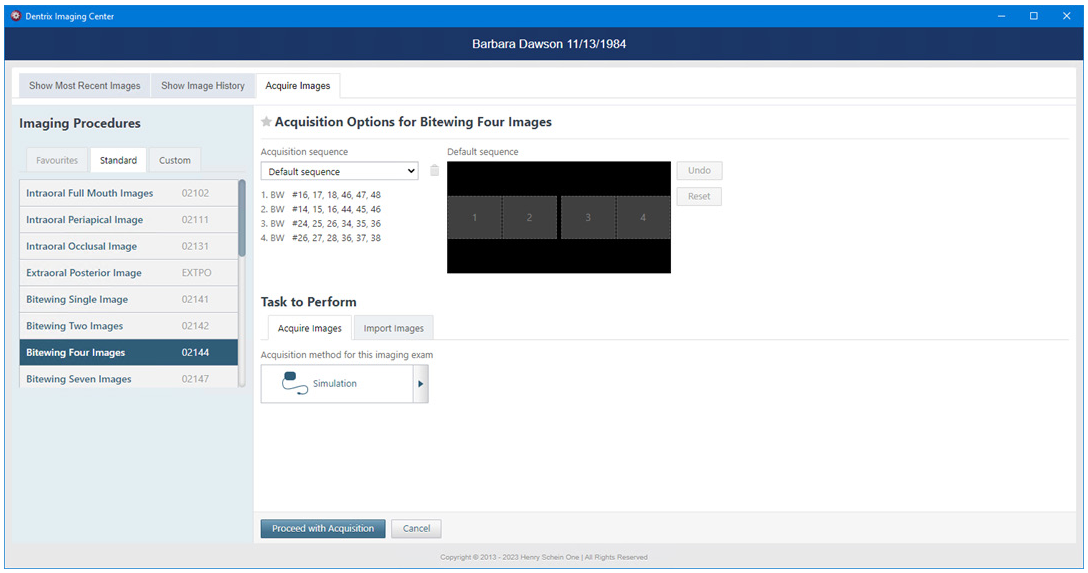
1. Open the Patient Chart and select a patient.
2. Click the Acquire a 2D/3D or CAD/CAM Image toolbar button in the Smart Image toolbar.

   The **Smart Image Acquisition** dialog box appears.



3. In the **Select a Preset** list, select the type of bitewing image you want to acquire, and then click **Acquire Now**.

   Note: If you are using Dentrix Imaging Center as your imaging software and have set up a favourite procedure for acquisition, Dentrix Imaging Center opens and selects the favourite automatically.

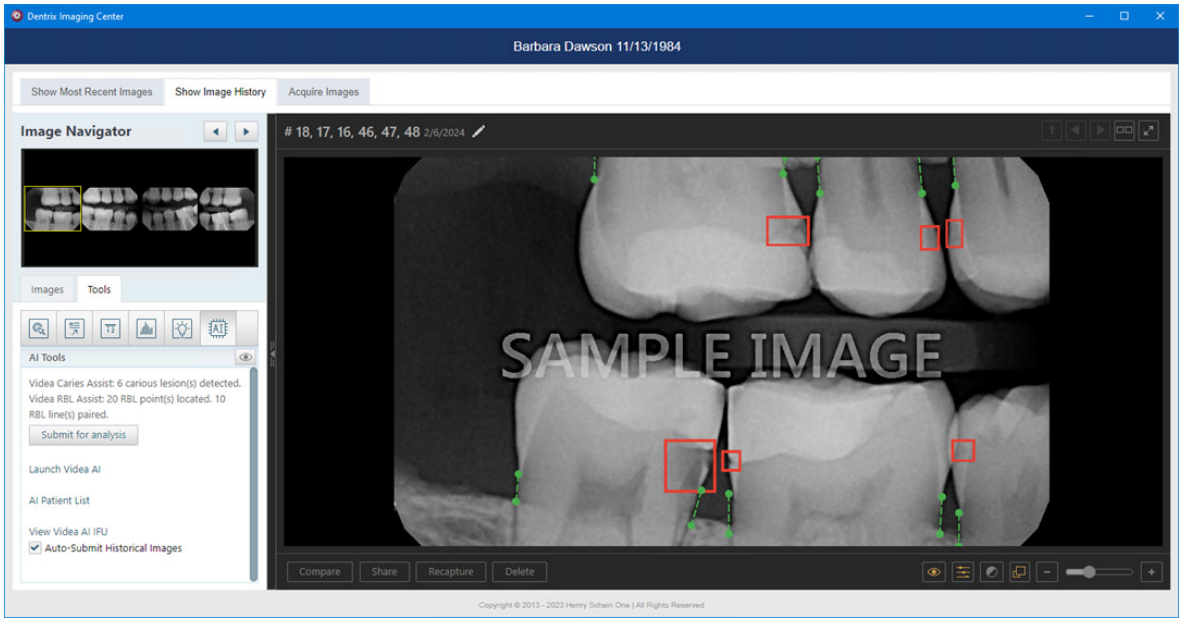


4. Click **Proceed with Acquisition**.

   Dentrix Imaging Center acquires the selected images and displays them in **Show Image History** automatically.

   Notes:

   - Bitewing images are uploaded and submitted to VideaHealth as they are acquired, but image acquisition does not finish until all images are uploaded and analyzed.
   - During submission to AI analysis, **Acquisition Status** changes to **UPLOADING IMAGE(S) TO AI PROVIDER**, and buttons, such as **Finish Acquisition**, **Recapture**, and so on are not available.
   - If an error occurs during AI submission, a message appears stating that the submission failed, and the buttons at the bottom of the view are enabled (**Finish Acquisition**, **Recapture**, and so on). See "Resubmitting Images for AI Analysis" for more information.

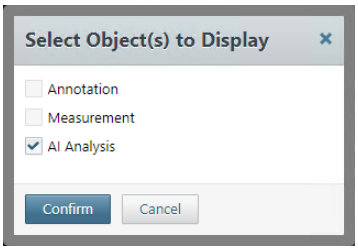


5. Under the **Tools** tab, click the AI icon.

   The number of areas of concern that were detected appear under **AI Tools**.

Notes:

- To switch between showing and hiding the caries indicator boxes, the bone level indicator lines, and the root apex indicator dots, click the Select object(s) to Display button  . In the **Select Object(s) to Display** dialog box, select or clear the **AI Analysis** check box, and then click **Confirm**.



- To open VideaAssist on VideaHealth's website, click the **Launch Videa AI** link.
- If the **Auto-Submit Historical Images** check box is selected and the image was not previously analyzed, it is automatically submitted for analysis. If the **Auto-Submit Historical Images** check box is not selected, and the image was not analyzed previously, you must click **Submit for analysis** to analyze the image.
- If you rotate an image or zoom in or out, it is automatically resubmitted for analysis, and it may take 3-5 seconds for the caries indicator boxes to reappear.

6. Minimize or close Dentrix Imaging Center.

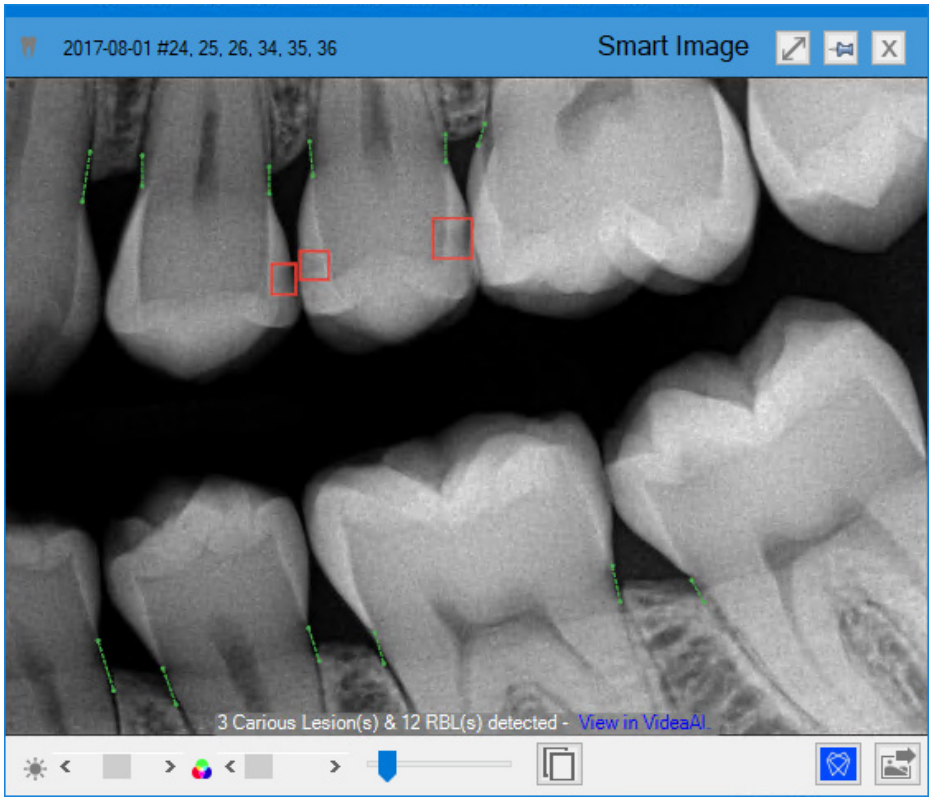
   The images appear in the **Smart Image** panel and are submitted automatically to VideaHealth for AI analysis. The Diagnostic Viewer appears, and any caries Dentrix Detect AI detected are outlined in red.

   Note: If an image has already been analyzed, an icon 

appears above the image with the number of caries Dentrix Detect AI found.

   The image processes, the VideaHealth AI button in the lower-right corner of the viewer turns bright blue, and any caries Dentrix Detect AI found are outlined in red.

   Note: If you hover your mouse pointer over an area outlined in red, a tooltip appears saying, "Caries."



7. To view the details of the analysis or to hide the results, click the VideaHealth AI button.

   The following details box appears.

8. To hide the results, click **Show AI findings**.

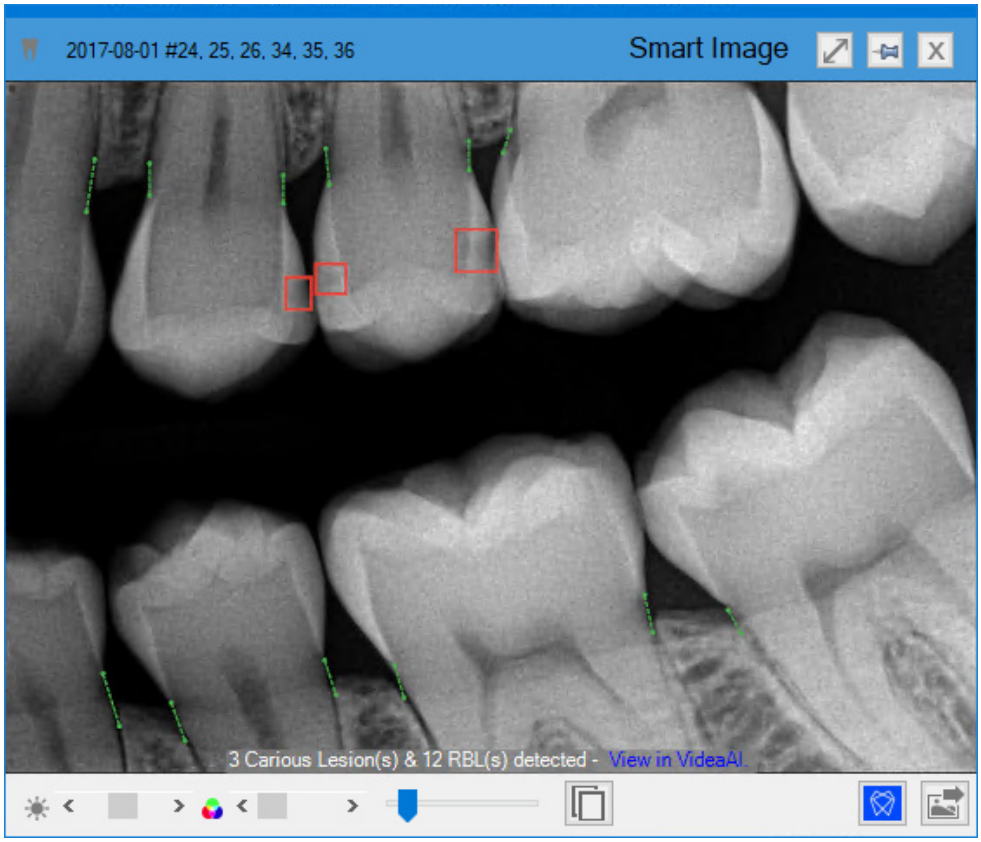
Submitting Existing Bitewings for AI Analysis

As needed, you can submit any bitewings for AI analysis that you acquired prior to activating Dentrix Detect AI.

To submit an existing bitewing for AI analysis

1. Open the Patient Chart and select a patient.
2. In the **Smart Image** panel, click the bitewing that you want to submit for AI analysis.

   The Diagnostic Viewer appears, and the image is submitted to VideaHealth for processing. The VideaHealth AI button in the lower-right corner of the viewer turns bright blue, and any caries Dentrix Detect AI found are outlined in red.



3. To view the details of the analysis or to hide the results, click the VideaHealth AI button.

   The following details box appears.

4. To hide the results, click **Show AI findings**.

Measuring Interproximal Radiographic Bone Levels

Periodontal disease can be a difficult diagnosis for some patients to accept. In the early stages of the disease, your patient may not experience much pain or any noticeable symptoms. For practitioners, determining the amount of bone loss is an important step in diagnosing Periodontal disease, but severity can be tricky to define since the interpretation of the severity depends on a provider's reading of a patient's X-rays.

Dentrix Detect AI measures and analyzes the bone level from the cementoenamel junction to the alveolar bone in patients' bitewings and Periapical Radiographs (PAs). Measurements are in millimeters and the percentage of bone loss is annotated on the X-ray in green, yellow, orange, or red. These annotations make it easier for providers to visually communicate the key indicators of periodontal disease and to discuss potential treatment.

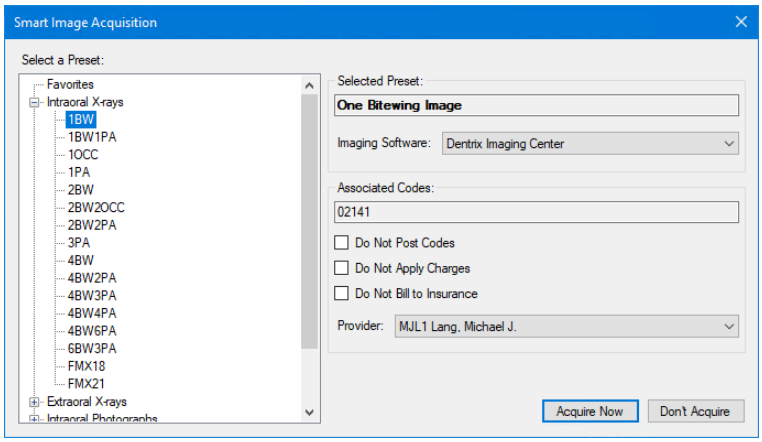
Important: This technology has received FDA clearance for use with patients aged 12 and older.

To measure interproximal Radiographic Bone Level

1. Open the Patient Chart and select a patient.

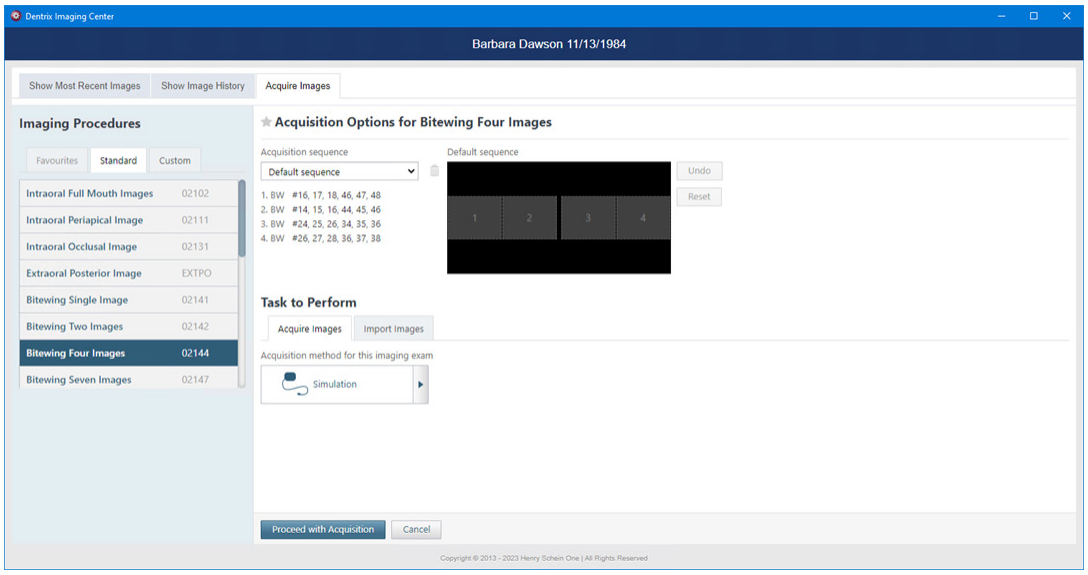
2. Click the Acquire a 2D/3D or CAD/CAM Image toolbar button in the Smart Image toolbar.

   The **Smart Image Acquisition** dialog box appears.



3. In the **Select a Preset** list, select the type of bitewing or PA image you want to acquire, and then click **Acquire Now**.

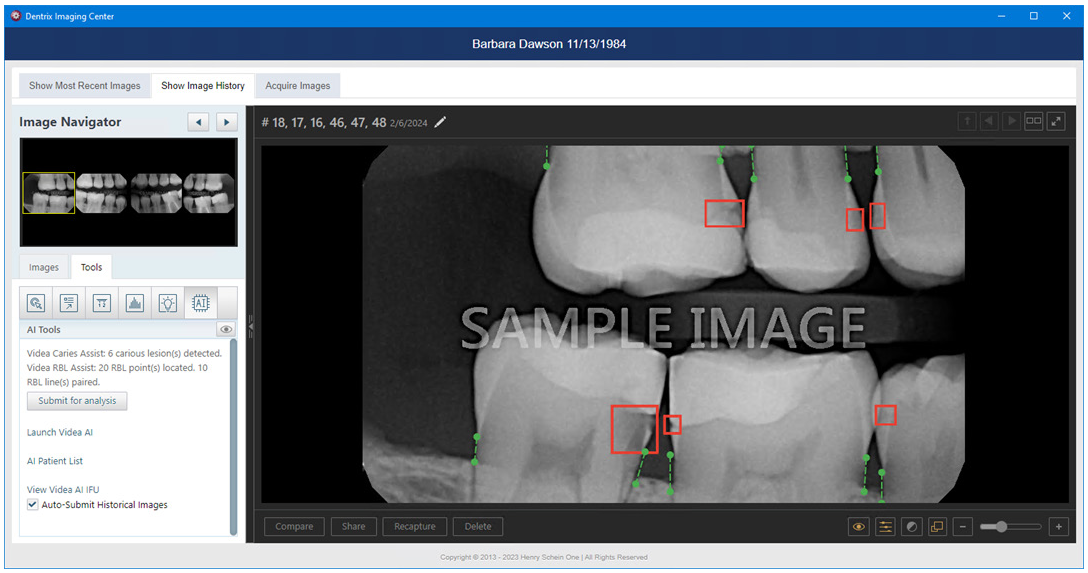
   Note: If you are using Dentrix Imaging Center as your imaging software, Dentrix Imaging Center opens and selects the type of bitewing automatically.



4. Click **Proceed with Acquisition**.

   Dentrix Imaging Center acquires the selected images and displays them in **Show Image History** automatically.

   Note: Images are uploaded and submitted to Videa as they are acquired, but image acquisition does not finish until all images are uploaded and analyzed.

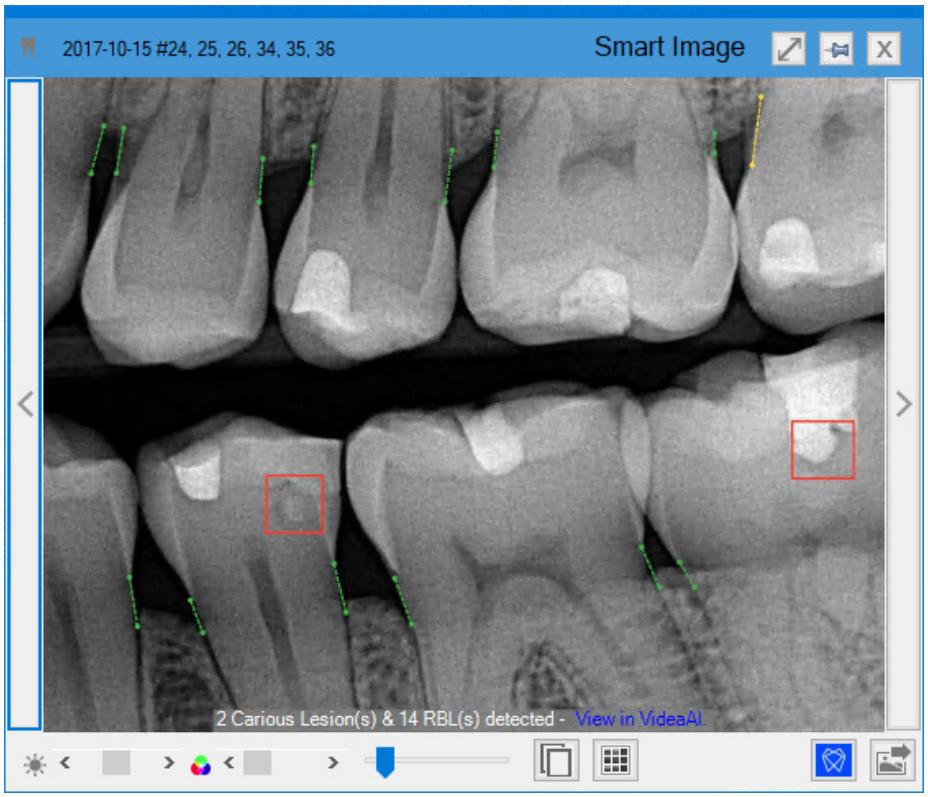


5. Minimize or close Dentrix Imaging Center.

   The images appear in the **Smart Image** panel and are submitted automatically to VideaHealth for AI and RBL analysis.

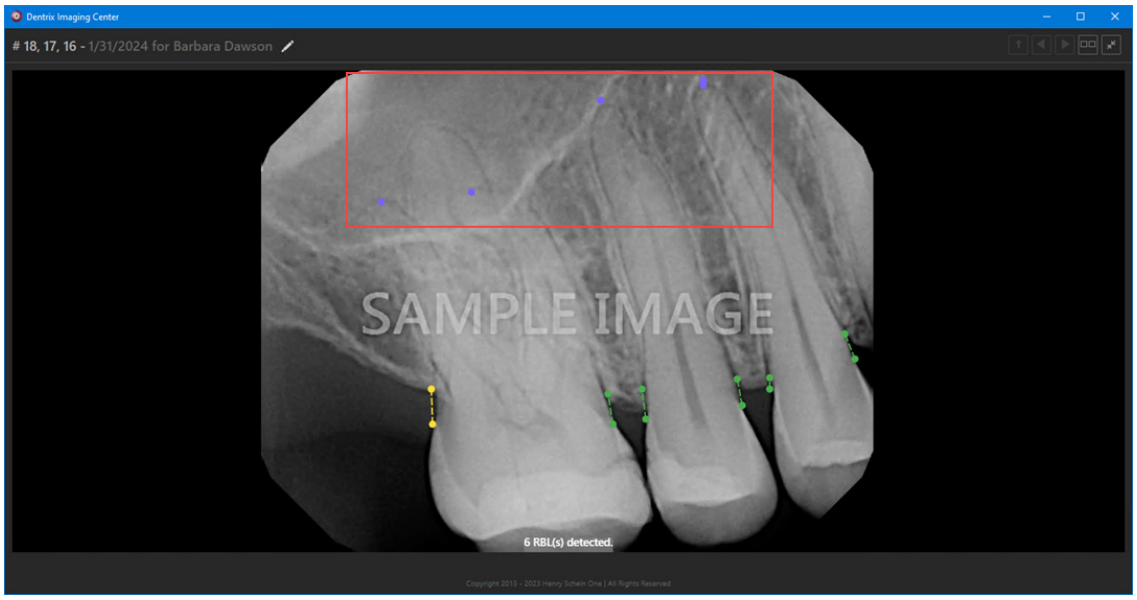
   Note: If an image has already been analyzed, an icon appears above the image with the number of caries Dentrix Detect AI found.

   The **Diagnostic Viewer** appears. The image processes, and the VideaHealth AI button in the lower-right corner of the viewer turns bright blue. Any caries Dentrix Detect AI found are outlined in red, and RBL measurements appear in green, yellow, orange, or red.



6. To view a RBL measurement in millimeters, hover your mouse pointer over the desired indicator.

   If the image includes the root tip of the tooth, the root apex indicator in light blue appears.



7. To view the details of the analysis or to hide the results, click the VideaHealth AI button.

   The following details box appears.

8. To hide the results, click **Show AI findings**.

Viewing Additional Dentrix Detect AI Indications

Dentrix Detect AI helps you with the following features:

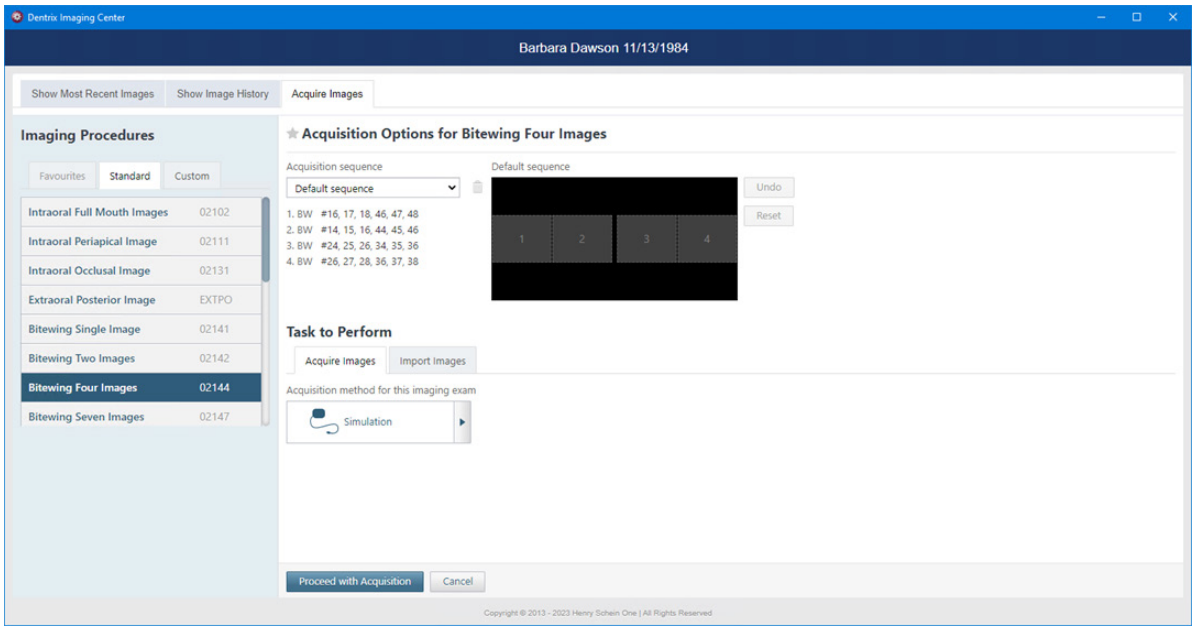
- Detecting caries in the enamel (dotted line yellow rectangles) and dentin (solid line red rectangles) on all primary and secondary teeth of patients 3 years and older.
- Measuring interproximal Radiographic Bone Levels in bitewings and Periapical Radiographs (PAs) for patients who are at least 12 years old. Bone level detection is only possible with mesial and distal surfaces. RBL measurements appear as green, yellow, orange, or red dotted lines.
- Detecting periodontal radiolucency (PRL) for patients 22 years and older to more effectively identify bone demineralization due to infections around root apices, cysts, and other causes. PRL is indicated by a red circle or oval.
- Detecting interproximal calculus and educate your patients 12 years and older on the importance of scaling and root planing. Combined with measuring interpoximal radiographic bone levels, Dentrix Detect AI illustrates disease prognosis for the patient and clinician. Interproximal calculus is indicated by an orange circle or oval.
- Detecting restoration imperfections in patients 22 years and older by identifying imperfect crown and filling margins and voids. A restoration imperfection is indicated by a yellow rectangle.

To view additional Dentrix Detect AI indications

1. In the Patient Chart, click the Launch Dentrix Imaging toolbar button.

   The Dentrix Imaging Center window appears.

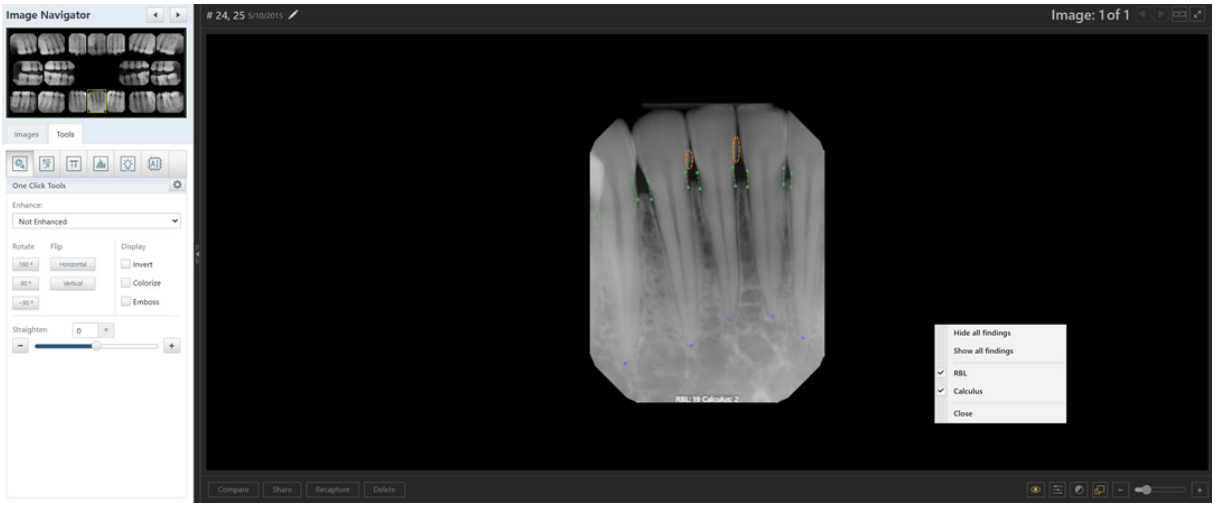
2. Click the **Acquire Images** tab.



3. Under **Imaging Procedures**, click the **Standard** tab, and then select the imaging procedure you want to perform.
4. Click **Proceed with Acquisition**.

   Dentrix Imaging Center acquires the selected images, submits them to VideaHealth, and displays them in **Show Image History** automatically.

RBL AND CALCULUS



CARIES, RBL, PRL, AND RESTORATION IMPERFECTIONS

Showing or Hiding Dentrix Detect AI Results

You can show or hide Dentrix Detect AI results for a selected AI finding or all AI findings in an image.

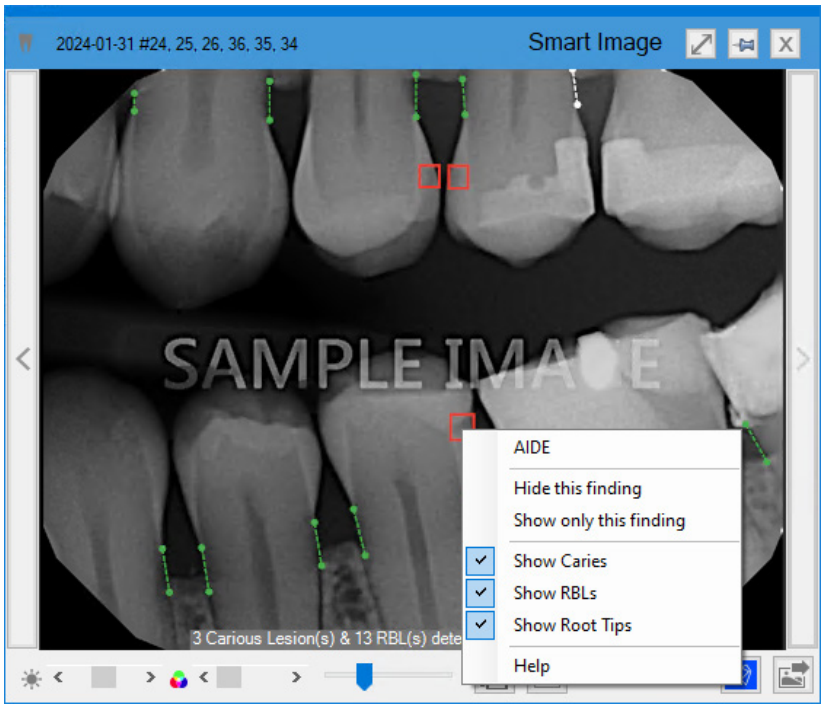
To show or hide Dentrix Detect AI results

1. Open the Patient Chart and select a patient.
2. In the **Smart Image** panel, click the image that you want to submit for AI analysis.

   The **Diagnostic Viewer** appears, and the image is submitted to VideaHealth for processing. The VideaHealth AI button in the lower-right corner of the viewer turns bright blue, and any caries Dentrix Detect AI found are outlined in red. RBL measurements appear in green, yellow, orange, or red.
3. To hide or show a single AI finding, click the AI indicator (red rectangle).

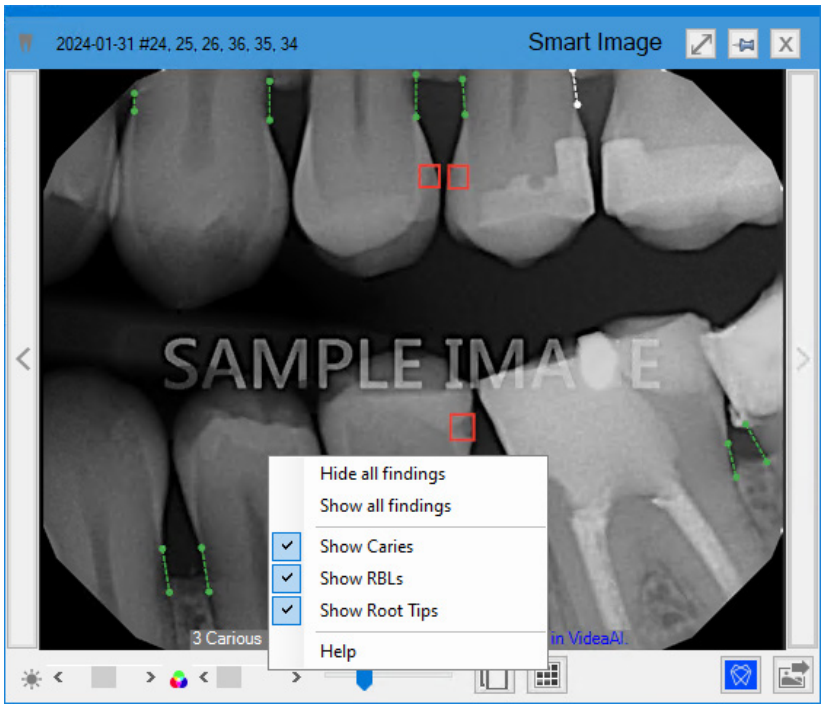
   The following menu appears.

   Note: By default, caries, RBL, and root tip indicators always appear when images are analyzed with Dentrix Detect AI. You can also hide the indicators by clearing one or more of the check marked indicators.



4. Do one of the following:
   - **Hide this finding** – Click to hide the selected Dentrix Detect AI finding.
   - **Show only this finding** – Click to show only the selected Dentrix Detect AI finding.
5. To hide or show all of the Dentrix Detect AI findings in an image, click anywhere an AI finding doesn't appear.

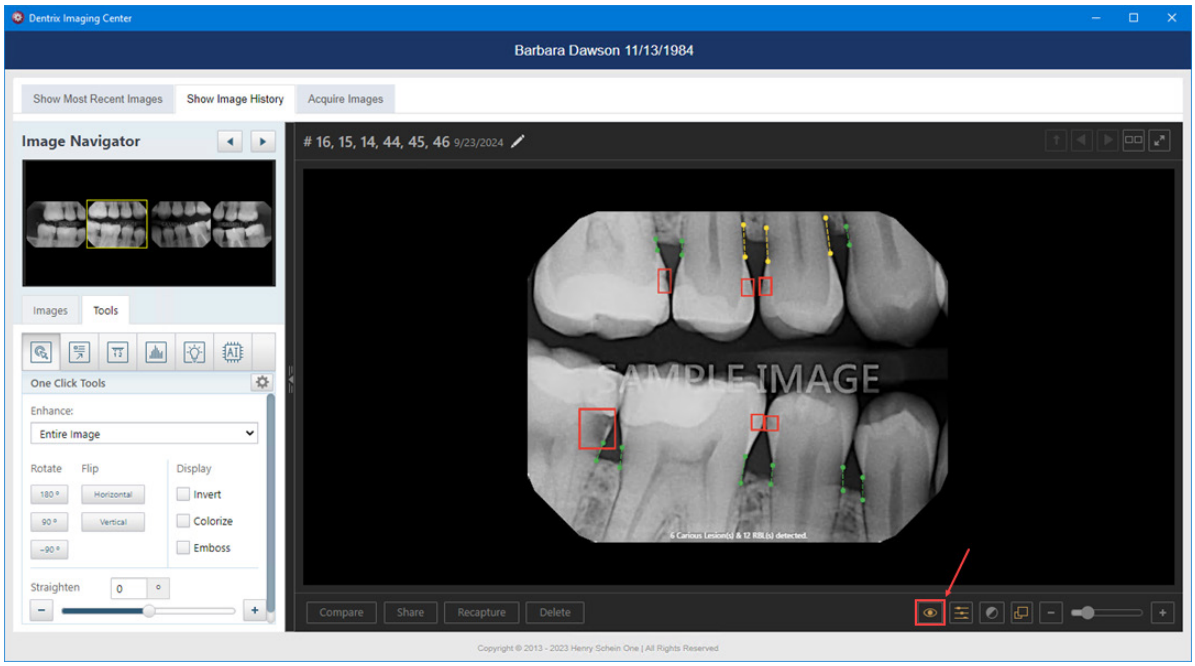
   The following menu appears.

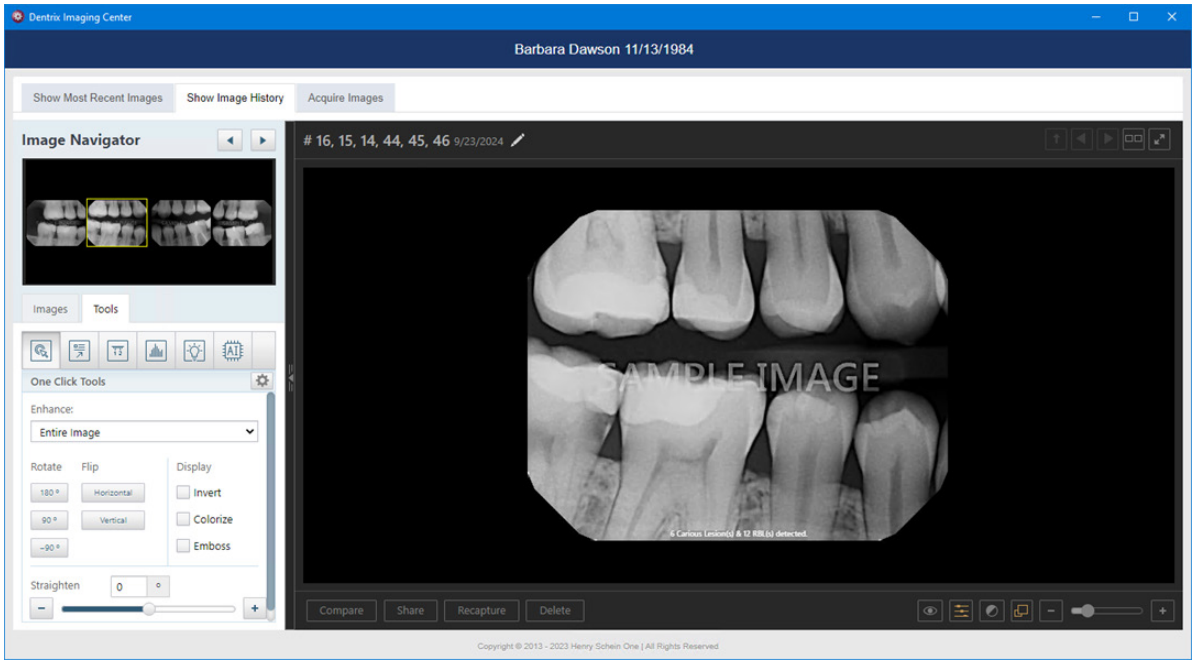


6. Do one of the following:
   - **Hide all findings** – Click to hide all Dentrix Detect AI findings.

- **Show all findings** – Click to show all Dentrix Detect AI findings.

7. To hide Dentrix Detect AI findings in the Dentrix Imaging Center in the **Show Image History** tab, click the Show/hide annotations and measurements button.





Using Artificial Intelligence with Diagnostic Enhancement (AIDE)

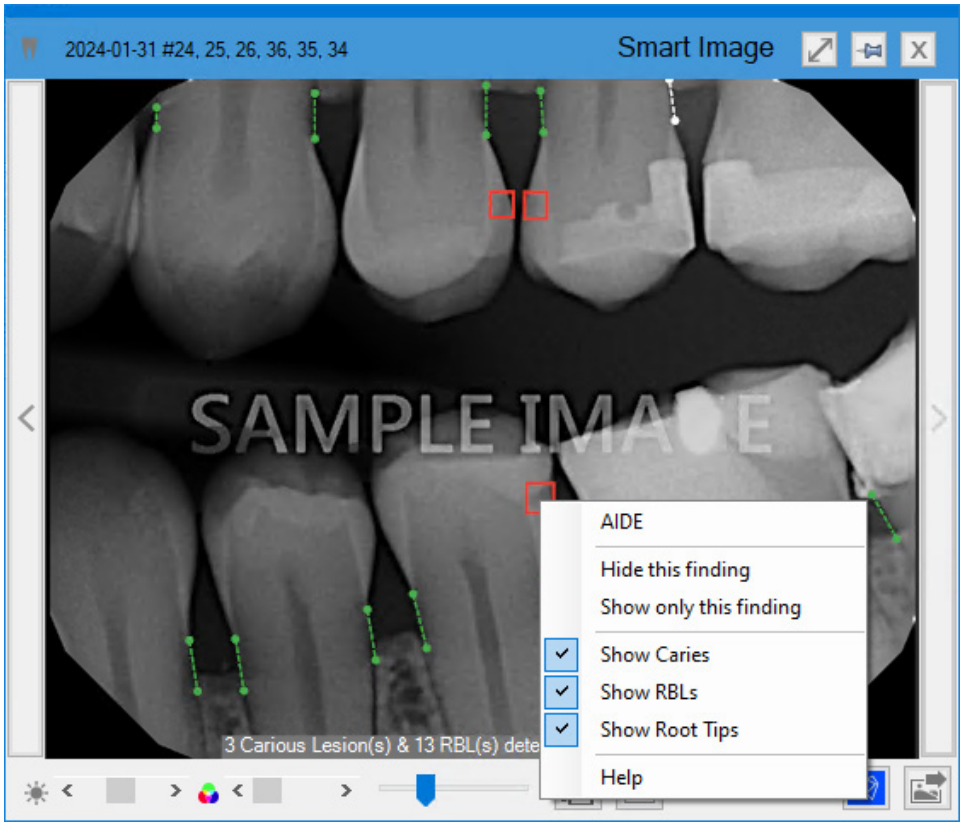
By clicking a specific AI annotation in the Diagnostic Viewer, you can use the Artificial Intelligence with Diagnostic Enhancement (AIDE) tool. This tool provides you withan optimized view of the AI analysis to further assist you with diagnoses.

To use AIDE

1. Open the Patient Chart and select a patient.
2. Click the Acquire a 2D/3D or CAD/CAM Image toolbar button in the Smart Image toolbar.

   The **Diagnostic Viewer** appears, the image processes, and the VideaHealth AI button in the lower-right corner of the viewer turns bright blue. Any caries Dentrix Detect AI found are outlined in red, and RBL measurements appear in green, yellow, orange, or red.
3. In the **Smart Image** panel, click the image that you want to analyze.
4. Click the desired AI indicator (red rectangle).

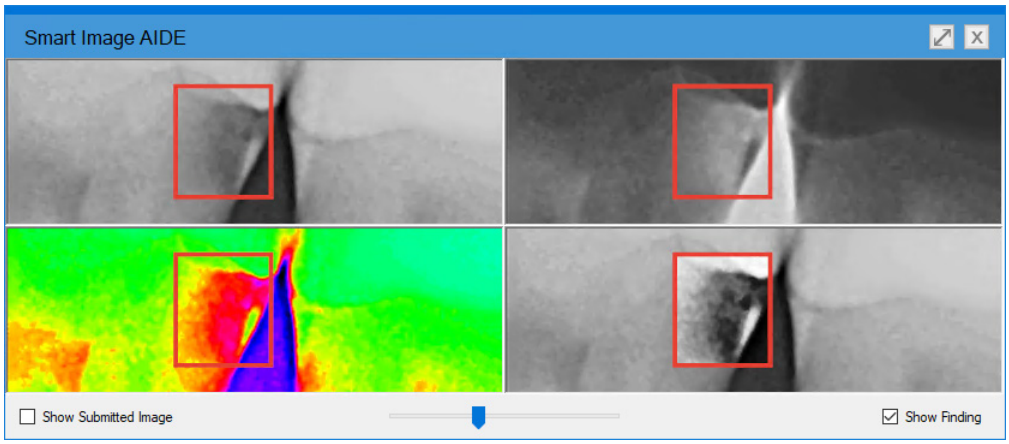
   A menu appears.



5. Click **AIDE**.

   The **Smart Image AIDE** dialog box appears.

   Note: The AIDE view consists of four different versions of the image in a quadrant. In the upper-left, the image is sharpened; in the upper-right, the image is inverted; in the lower-right, the contrast is increased; and in the lower-left, color enhances the image.



6. To use the zoom feature, rotate the wheel button or click the slider to increase or decrease the size of the images.
7. Do one or more of the following:
   - **Show Submitted Image** – Select to see the upper-left image without enhancement.
   - **Show Finding** – Clear to remove the AI indicators.

Opening VideaAssist

You can open VideaAssist on Videa Health's website from Dentrix Imaging Center. The website provides tools for viewing images in greater detail, filtering caries by severity (size), and comparing two images to see changes over time.

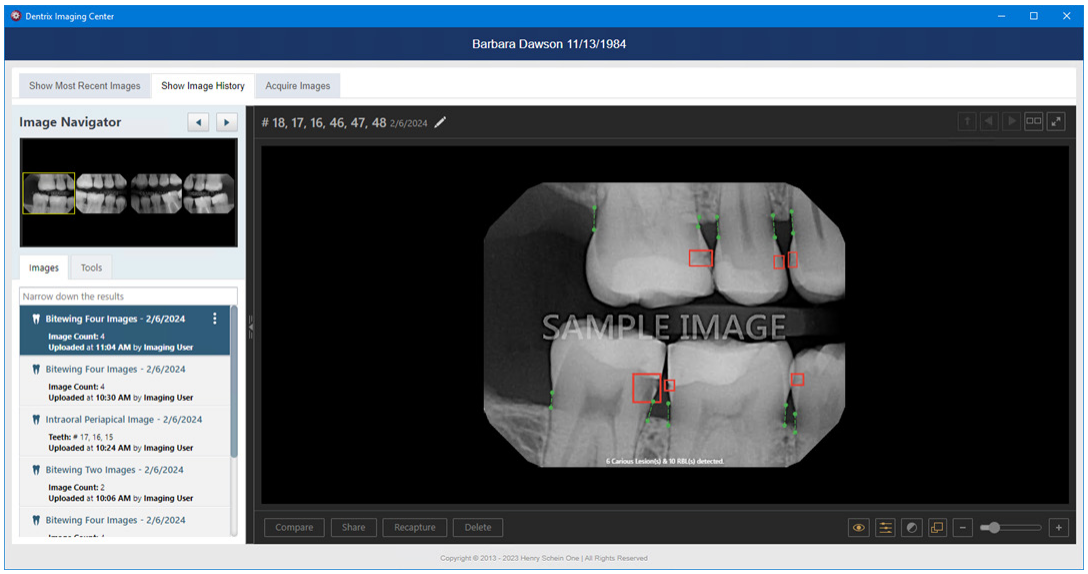
To open VideaAssist

1. Select the patient whose record you want to access.

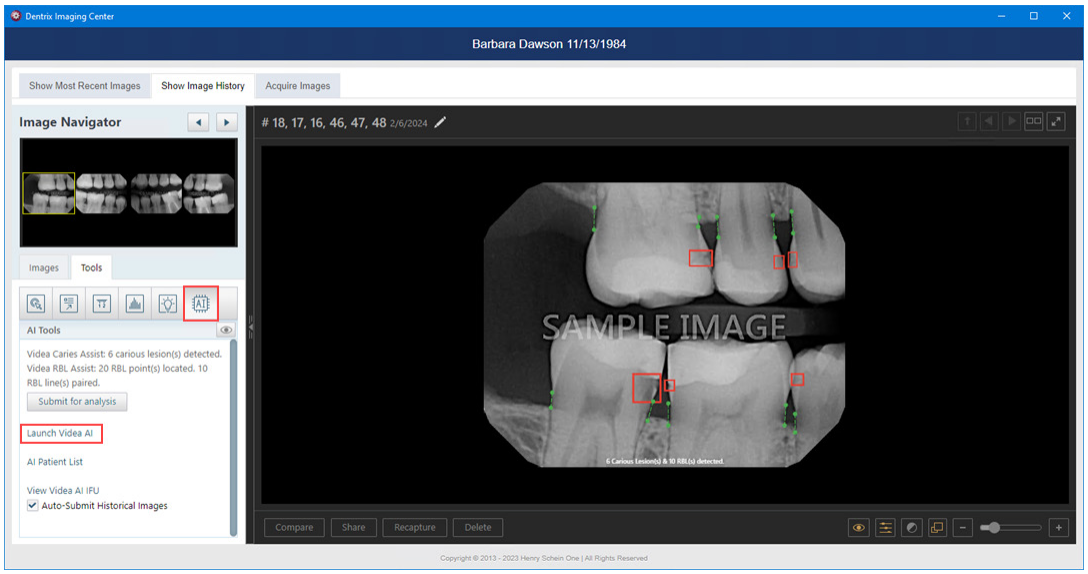
   Note: You can also include inactive patients by clicking the **Advanced Search** tab in the **Select Patient** dialog box, and then selecting **Inactive**.

2. To open Dentrix Imaging Center, in the Smart Image toolbar, click the Launch Dentrix Imaging button.

   The Dentrix Imaging Center appears.



3. Click the **Show Image History** tab.
4. To select an exam image, click the **Images** tab, and then select the individual image or series.
5. Click the **Tools** tab, and then click the AI icon.



6. Click the **Launch Videa AI** link.

   Note: You are logged in automatically.

   The website opens the current image automatically.

   Important: If you rotate an image or zoom in or out, it is automatically resubmitted for analysis, and it may take 3-5 seconds for the indicator boxes and lines to reappear.

Opening the Videa Health Huddle Dashboard

You can open the Huddle dashboard from Dentrix Imaging Center. The dashboard can help you review patients who are due for bitewings, perio charting, or a prophy. It also identifies patients with potential periodontal disease and/or potential restorations. This is the first phase of development for this feature.

The information on the dashboard is gathered when you acquire images in Dentrix Imaging Center. Initially, you will use the dashboard retroactively to review patients that were seen that day. Later, as you acquire more patient images, you will be able to use the Huddle dashboard more proactively.

Use the Huddle dashboard at the end of the day to review the patients who were just seen to see if treatment was missed. This gives you an opportunity to check a patient's perio exam to see if periodontal disease was noted or to check if a treatment plan for restorations was created for a patient. Even during its initial use, the Huddle dashboard can help you find potential production for your practice.

Later, in the next six-month recare cycle, you can see patients who are due for bitewings, perio charting, or a prophy. This can be extremely useful. For example, if a patient is coming in for a filling, you can see if he or she is due for prophy and bitewings. You can then either schedule an appointment before the patient leaves or try to schedule the treatment for that day if there is an opening in the hygiene schedule.

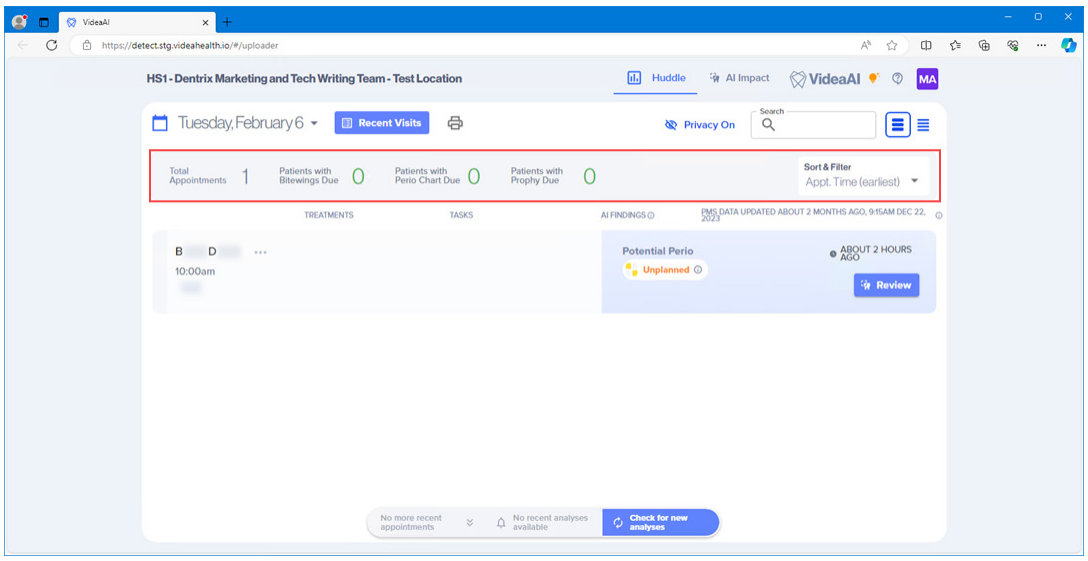
To open the Huddle dashboard

1. Open the Patient Chart, and select the patient whose record you want to access.

   Note: You can also include inactive patients by clicking the **Advanced Search** tab in the **Select Patient** dialog box, and then selecting **Inactive**.

2. In the Smart Image toolbar, click the AI Patient List icon.

The Videa Health website opens, and you are logged in automatically.



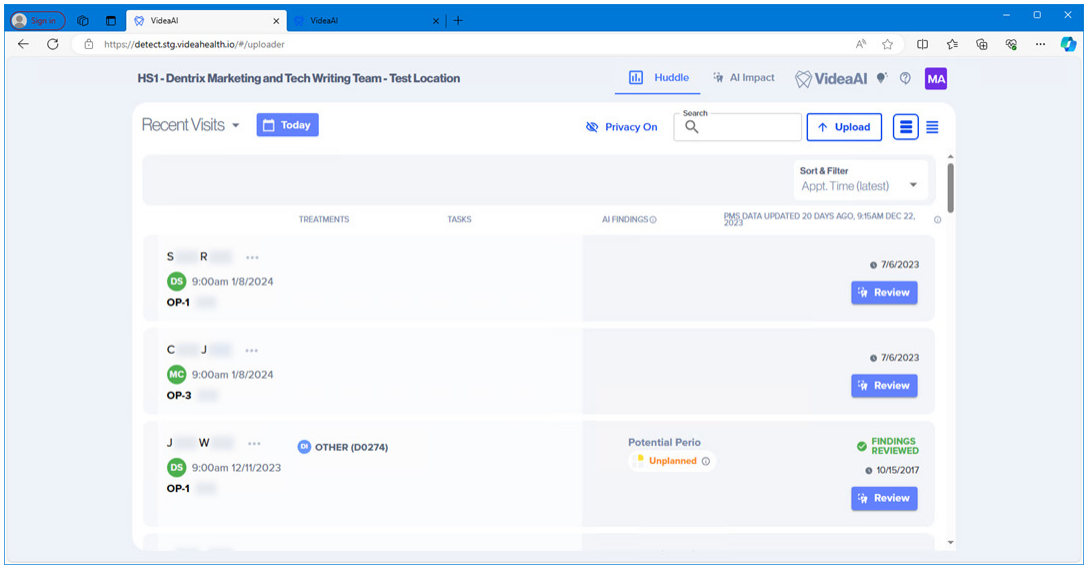
Notes:

- At the top of the dashboard, a toolbar displays the total number of appointments for that day and a task filter that displays the total number of: Patients with bitewings due, Patients with a perio chart due, and Patients with a prophy due.
- These numbers update automatically within 5 to 15 minutes after you acquire patient images and update throughout the day as you see patients.
- When you first start using the dashboard, the numbers will be zero because they are calculated on patient images that were acquired since you enabled the feature. As you continue to acquire images, the numbers update automatically so that in the next six-month cycle, you can monitor patients who are due for bitewings, a perio exam, or prophy.

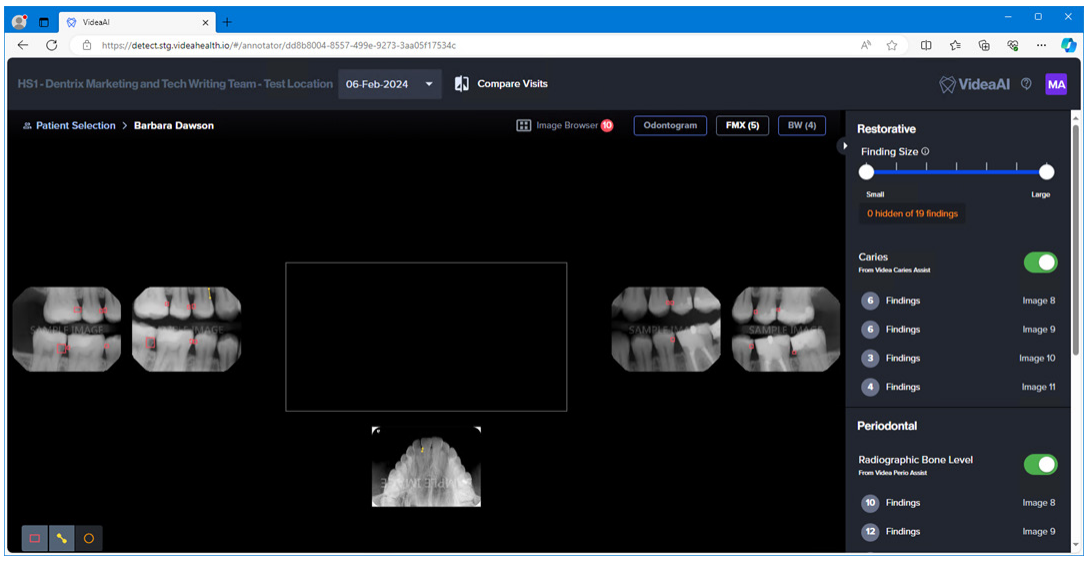
3. Click the **Huddle** tab.

   A list of patients with bitewings, perio charting, or prophy due for the current date appear. By default, the website displays the dashboard for the current date with patient names and ages hidden. The dashboard also displays potential periodontal disease or caries requiring restorations for a patient if detected by AI.

4. To review historical patient information, click **Recent Visits**.

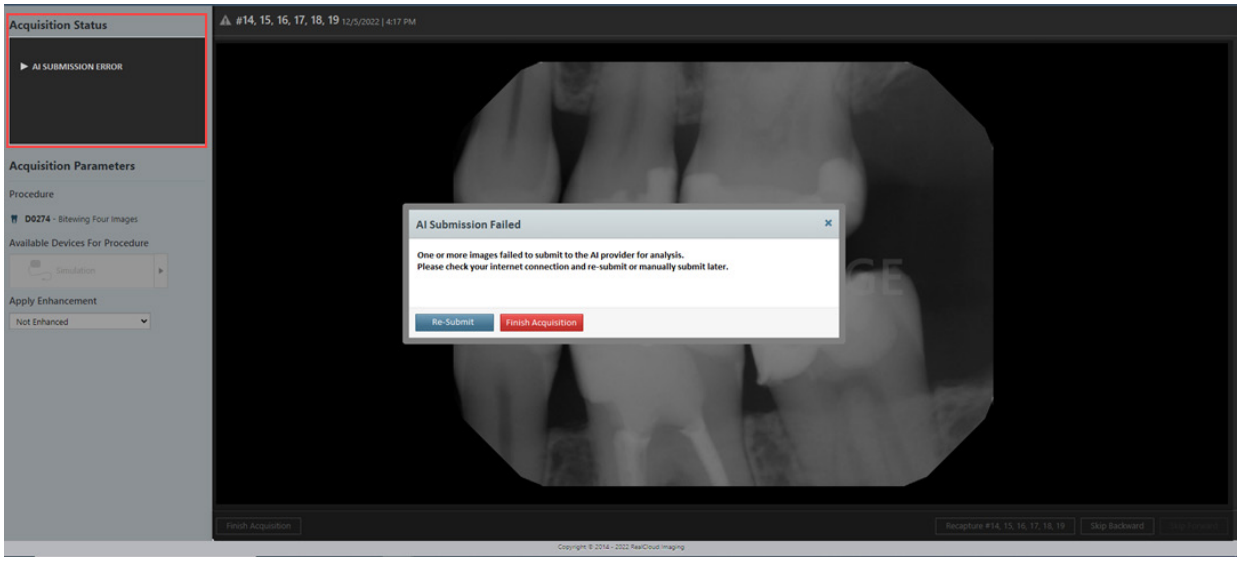


5. To view the AI findings for a specific patient, select the patient from the list, and then click **Review**.



Resubmitting Images for AI Analysis

If an error occurs while you are submitting an image for AI analysis, an error message appears in **Acquisition Status**, and the **AI Submission Failed** dialog box appears.



To resubmit an image for AI analysis

1. Do one of the following:
   - To resubmit the images for AI analysis, click **Re-Submit**.

     The **AI Submission Failed** dialog box closes and the **Acquisition Status** changes to UPLOADING IMAGE(S) TO AI PROVIDER.
   - To finish the acquisition, click **Finish Acquisition**.

     The **Exam List** appears, and the acquired exam is selected.
2. (Optional) To remain in Acquisition mode, click the X icon to close the **AI Submission Failed** dialog box.

Importing Images

You can import image files (.bmp, .png, .jpg, and .tiff files) to attach to a patient's record.

Note: You can edit the date that images were imported or uploaded to the date you acquired the image from a referring dentist, a third party, or a patient.

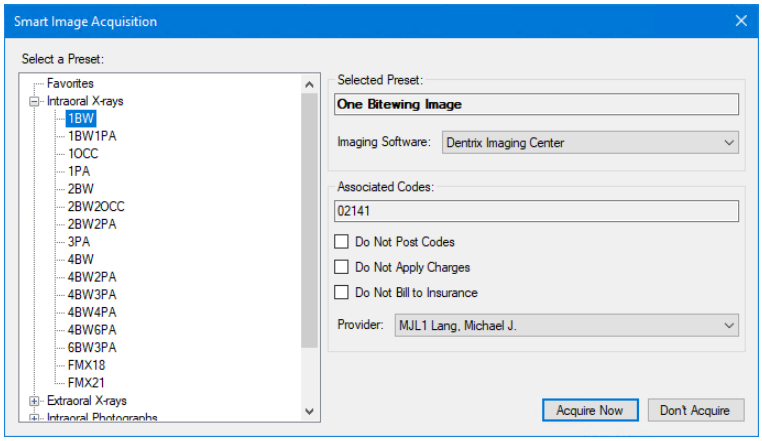
To import an image

1. Open the Patient Chart and select a patient.

   All images pertaining to the selected patient appear in the **Smart Image** panel.

2. Click the Acquire a 2D/3D or CAD/CAM Image toolbar button in the Smart Image toolbar.

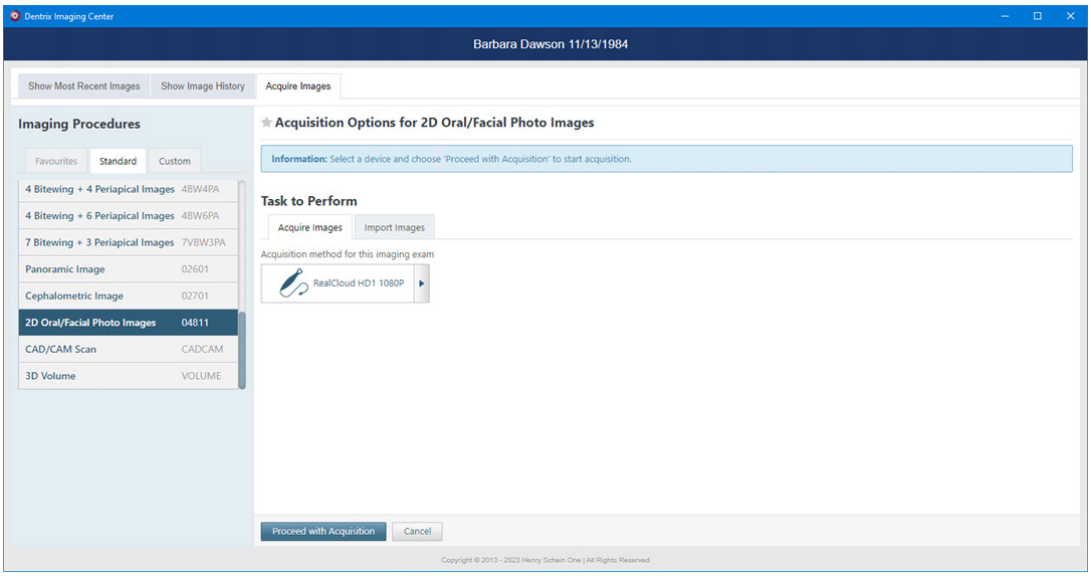
   The **Smart Image Acquisition** dialog box appears.



   Note: If you are importing an image for an existing procedure, select **Do Not Apply Charges** and **Do Not Bill to Insurance**.

3. In the **Select a Preset** list, select the type of image you want to acquire, and then click **Acquire Now**.

   The **Dentrix Imaging Center** dialog box appears.



4. Under **Imaging Procedures**, either leave the **Standard** tab selected, or click the **Custom** tab or the **Favorites** tab.

   Note: Custom and favorite imaging procedures are location specific.

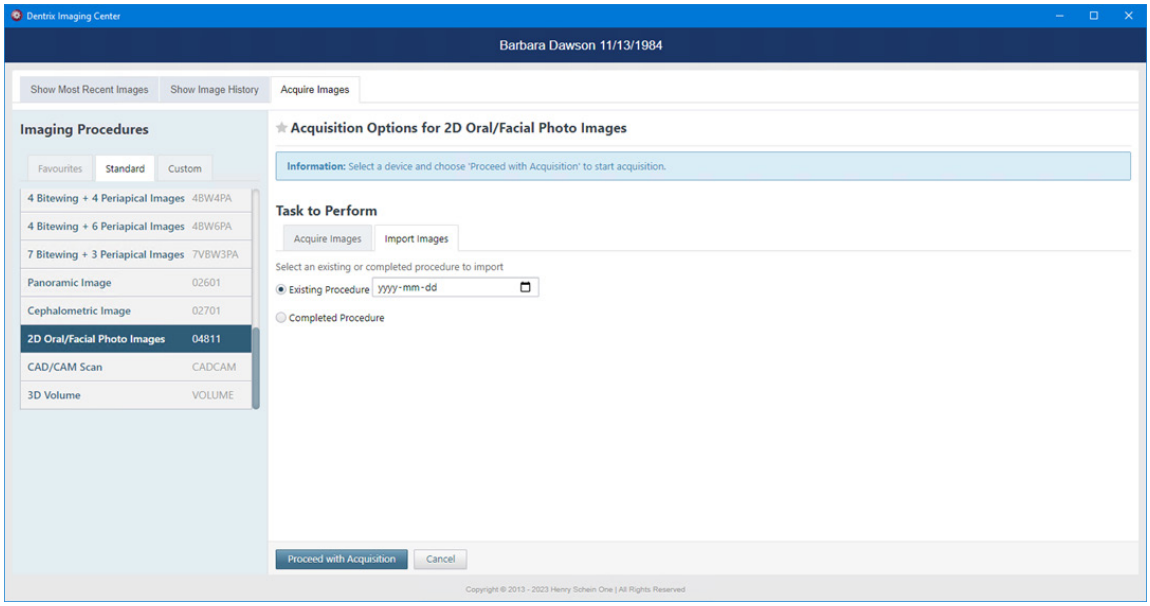
5. Complete the following steps:
   a. If it isn't already selected, select the imaging procedure that you want to perform.

      The options for the selected procedure become available.

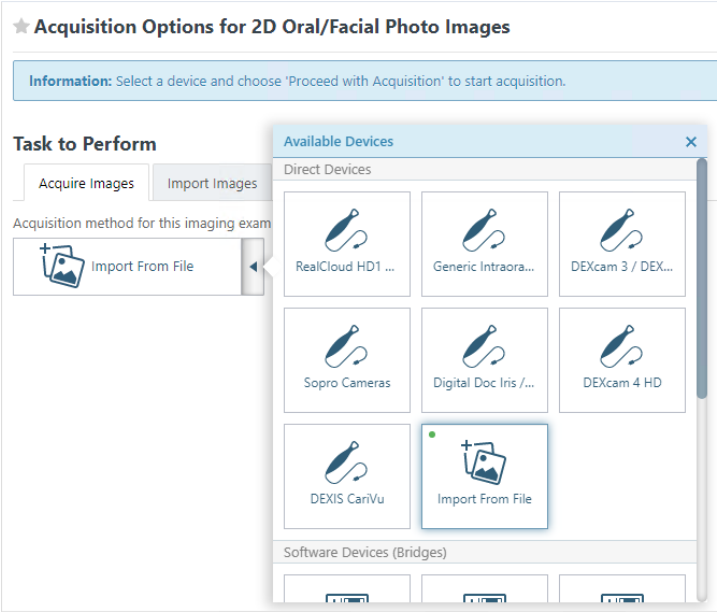
   b. If it isn't already selected, under **Task to Perform**, select the acquisition method from the **Available Devices** pop-up list.
6. Under **Task to Perform**, click the **Import Images** tab.

   Note: Depending on the acquisition method you selected, the tasks you must complete to import an image vary. For example, if you are importing an individual intraoral X-ray image, you must select the teeth from the **Tooth chart** that pertain to the importing session. Or, if you are importing intraoral X-ray images for a series with two types of sequences, you must select one of the following options:

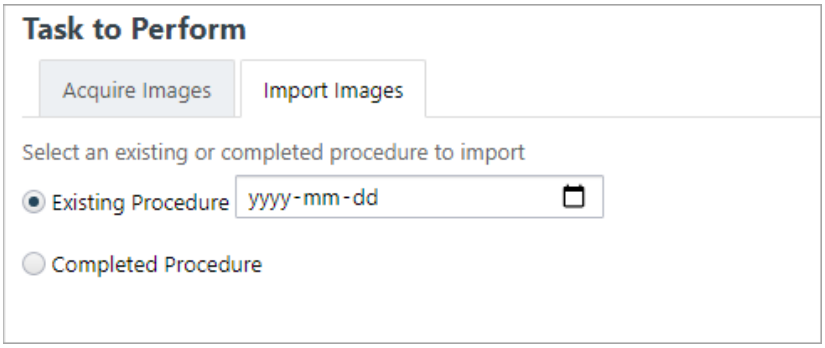
   - **For a full-mouth series** – Select **FMX 18** or **FMX 21**.
   - **For a 3-periapical series** – Select **Maxillary** or **Mandibular**.
   - **For a 4-bitewing and 3-periapical series** – Select **Maxillary** or **Mandibular**.
   - **For a 7-bitewing and 3-periapical series** – Select **Maxillary** or **Mandibular**.



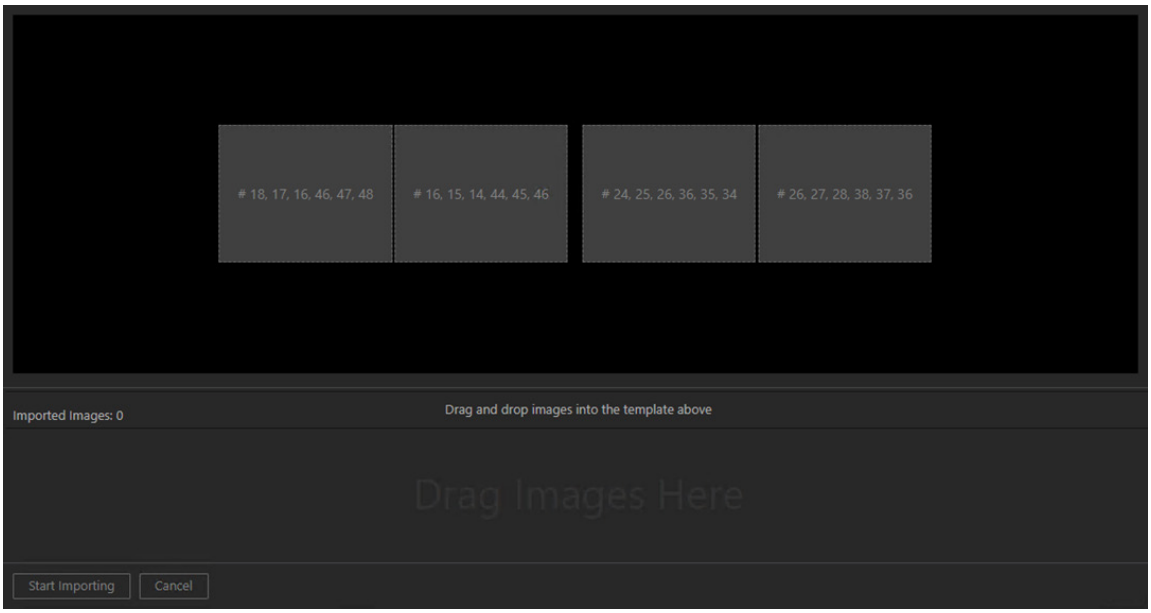
7. Under **Task to Perform**, do one of the following:
   - On the **Acquire Images** tab, select the **Import From File** device in the **Available Devices** pop-up list if it is not already selected.



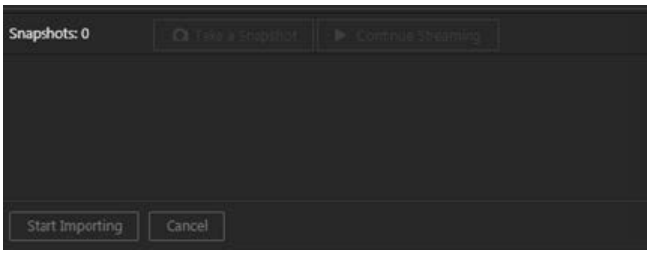
- Click the **Import Images** tab.



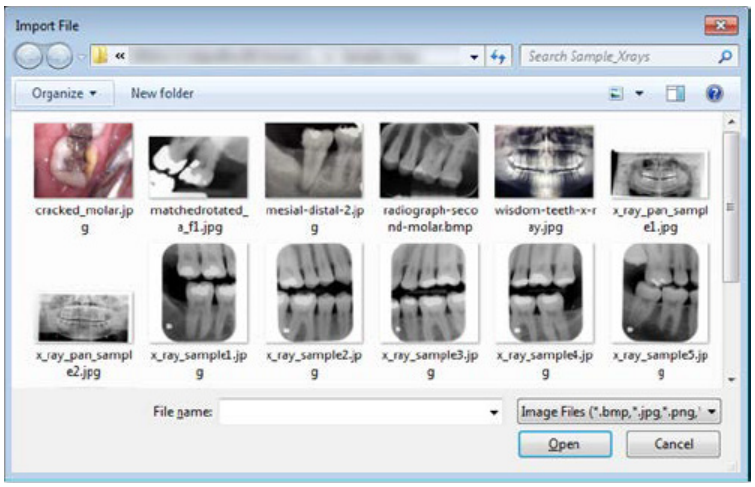
8. If you clicked the **Import Images** tab, select one of the following options (otherwise, skip this step):
   - **Existing Procedure** – Use this for a procedure that was performed prior to today (and may already have been billed to the patient's insurance carrier). Specify the date that the procedure was performed.
   - **Completed Procedure** – Use this for a procedure that you are performing. Today's date and time will be associated with the procedure.
9. Click **Proceed with Acquisition**.
10. Do one of the following:
    - To import one or more intraoral or extraoral X-ray images if you selected **Import from File** as the acquisition device on the **Acquire Images** tab in step 7, click **Start Acquisition**.
    - To import one or more intraoral or extraoral photos, if you selected **Import from File** as the acquisition device on the **Acquire Images** tab in step 7, click **Start Acquisition**.
    - To import a CAD/CAM Scan, click **Start Acquisition**.
    - To import one or more intraoral or extraoral X-ray images if you selected the **Import Images** tab in step 7, click **Start Importing**.



- To import one or more intraoral or extraoral photos if you selected the **Import Images** tab in step 7, click **Start Importing**.

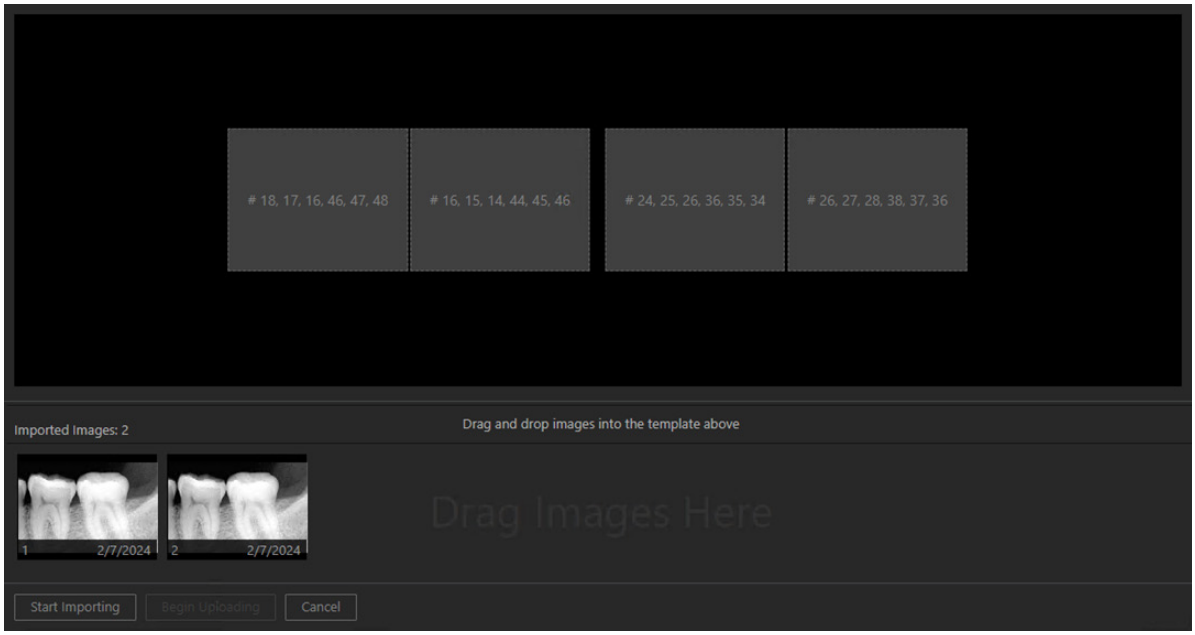


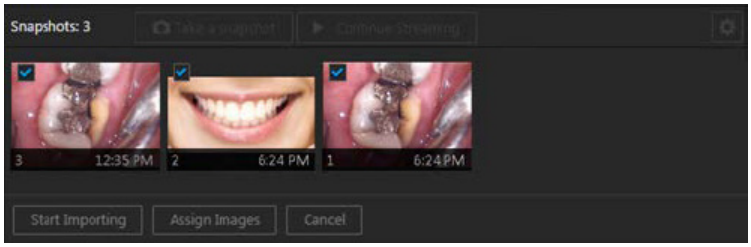
The **Import File** dialog box appears.



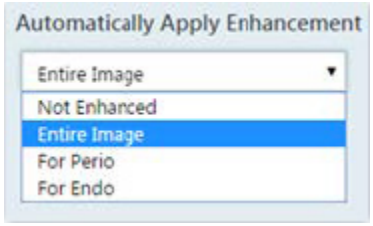
11. Select the desired image files, and then click **Open**.

    For an intraoral X-ray series, intraoral photos, or extraoral photos, the selected image files appear as thumbnail images on the panel at the bottom of the Dentrix Imaging Center program.





12. For an intraoral X-ray series, intraoral photos, or extraoral photos, repeat steps 8 - 9 as needed to import additional images.
13. For X-ray images, from the **Automatically Apply Enhancement** list, select the type of enhancement that you want to apply automatically to the images (**Entire Image**, **For Perio**, **For Endo**), or select **Not Enhanced** to not apply any enhancement.



Note: When viewing an image after importing it, you can turn the enhancement off and on. The original, raw image is preserved. For more information about enhancements and turning them on and off, see the "Processing Images" section.

14. For an intraoral X-ray series, do the following:
    a. One at a time, drag the thumbnail images from the panel to the appropriate boxes of the template.

b. Do any of the following:

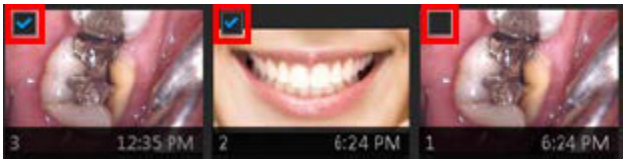
- To change the orientation of an image in the template, select it to view the toolbar, and then click any of the available buttons as needed: **Flip Horizontal**, **Flip Vertical**, **Rotate Counterclockwise** (- 90 degrees), and/or **Rotate Clockwise** (90 degrees).

  Note: If an image is flipped, the Rotate Clockwise and Rotate Counterclockwise buttons rotate the image in the same direction as if the image was not flipped.

- To swap two images in the template, drag one of the images to the box with another image.
- To remove an image from the template, drag it back to the panel at the bottom.

15. For intraoral or extraoral photos, do the following:

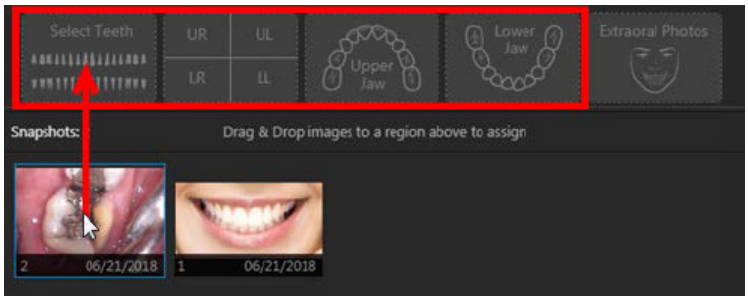
a. Clear the check box of any thumbnail image on the panel that you do not want to save to the patient's record.



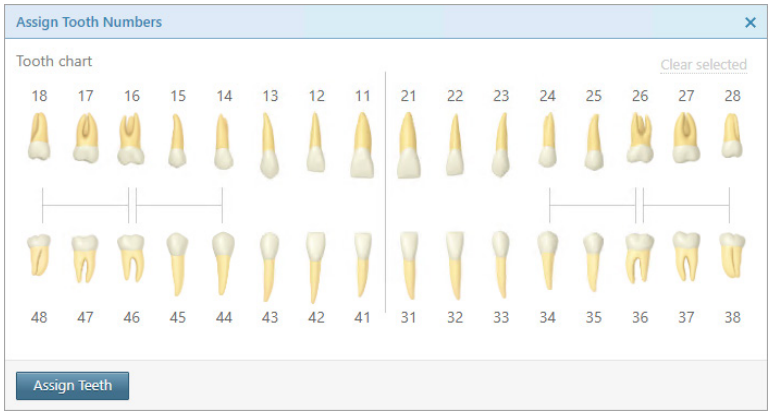
b. Click **Assign Images**.

c. Do any of the following:

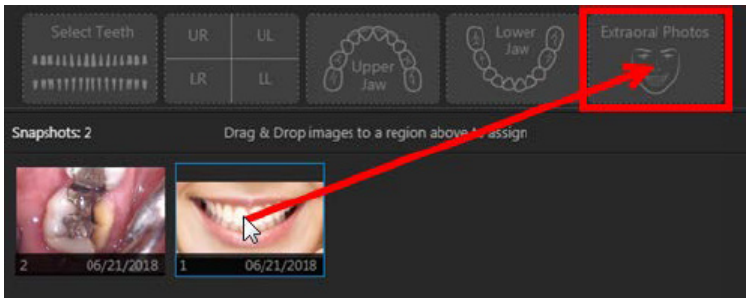
- To save one or more snapshots as intraoral images and assign tooth numbers, select the snapshots that pertain to the same teeth (clear snapshots that do not pertain to the same teeth), and then drag them to the **Select Teeth**, **UR/UL/LR/LL**, **Upper Jaw**, or **Lower Jaw** box.



If you drag snapshots to the **Select Teeth** box, select the applicable teeth, and then click **Assign Teeth**.

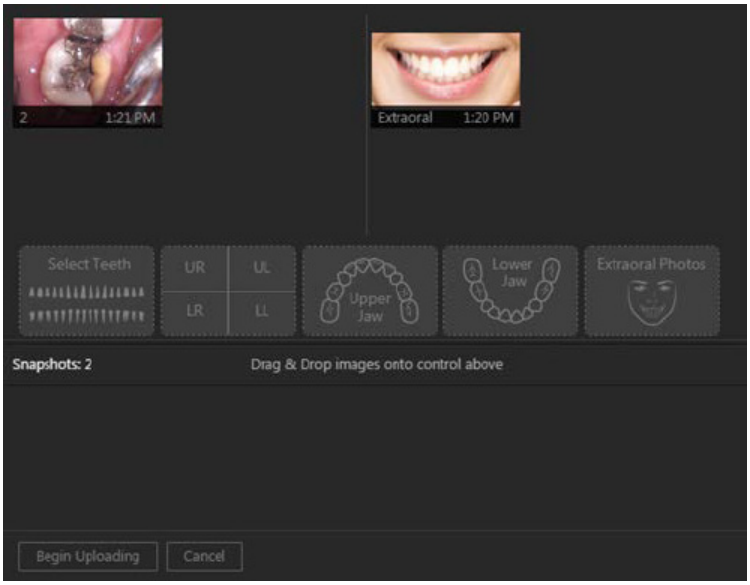


- To save one or more snapshots as extraoral images, select the snapshots that are extraoral images (clear snapshots that are not extraoral images), and then drag them to the **Extraoral Photos** box.

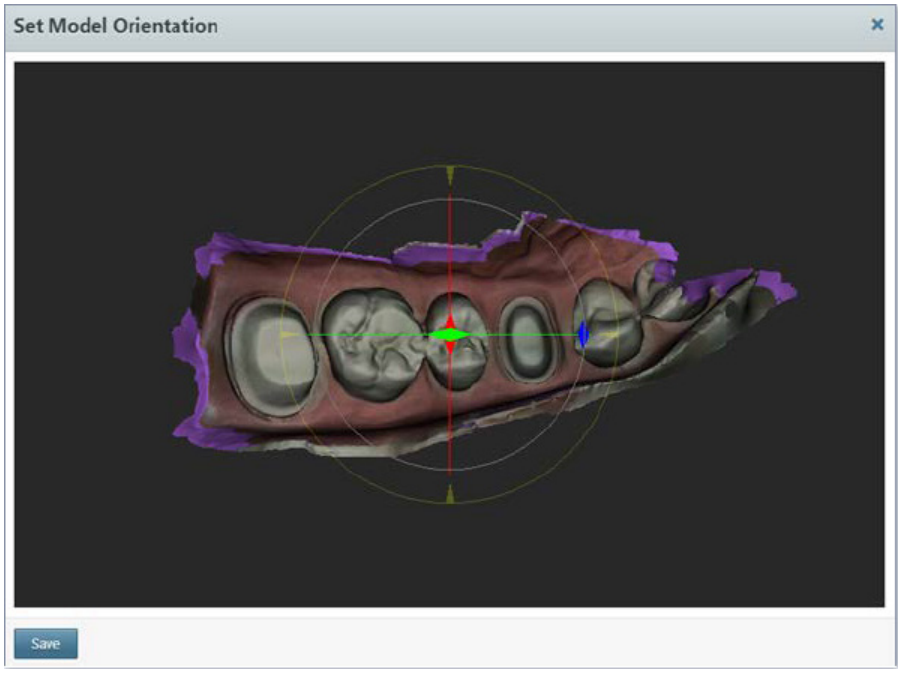


- To save the snapshots on the snapshot panel as intraoral images but not assign tooth numbers at this time, leave those snapshots on the snapshot panel.

Assigned intraoral images appear on the left side of the preview area; extraoral, on the right.

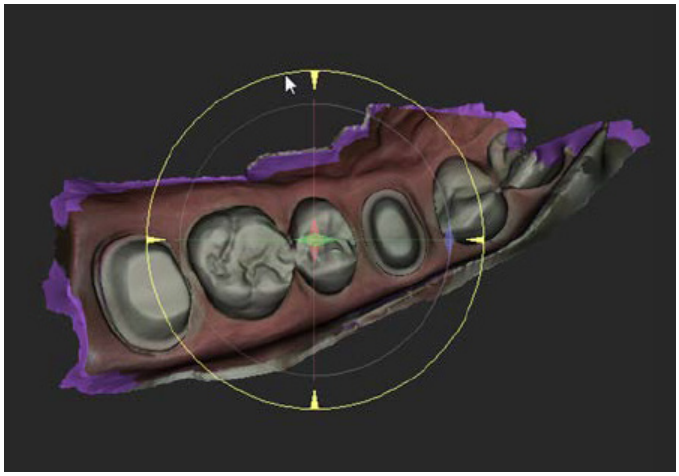


16. For a CAD/CAM scan, the **Set Model Orientation** dialog box appears.

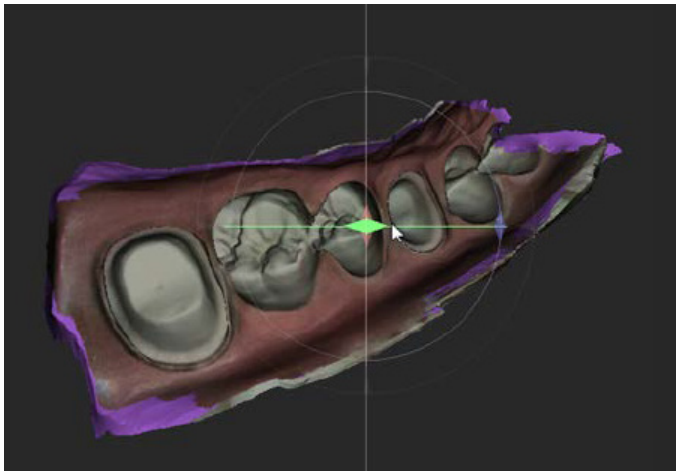


Do the following:

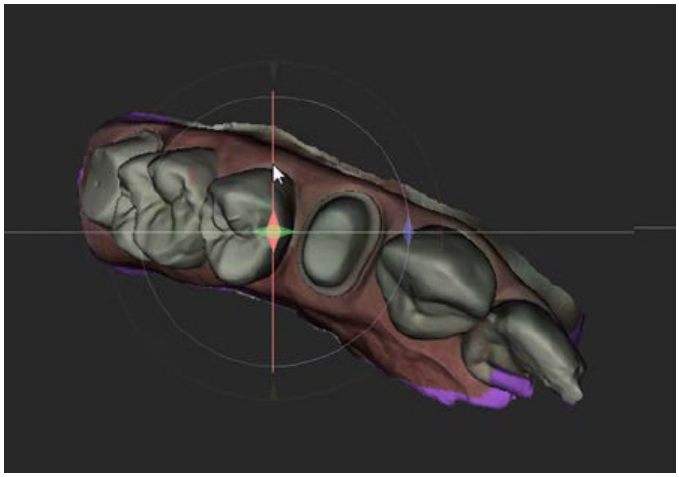
a. Adjust the orientation of the model as you want it to appear in Dentrix Imaging Center:
   - Select the yellow circle to make it active, and then drag to rotate the model clockwise or counterclockwise.



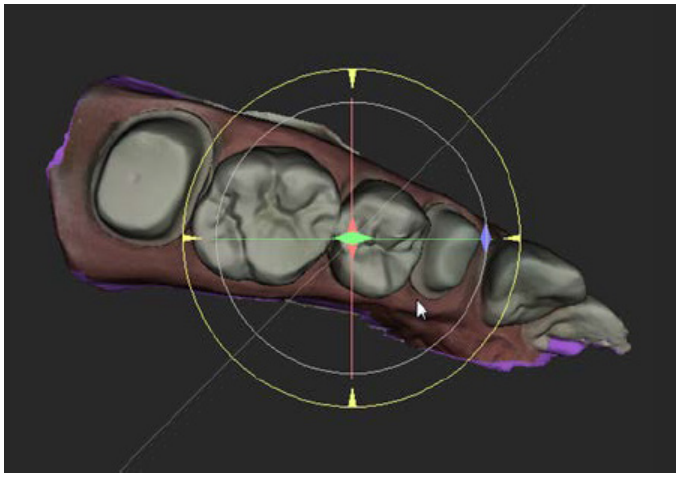
- Select the green line to make it active, and then drag to rotate the model on the x-axis.



- Select the red line to make it active, and then drag to rotate the model on the y-axis.



- Click anywhere within the purple circle to make it and the yellow circle active, and then drag to move the model in any direction.



Note: When you save the orientation, that view of the model becomes the default, and you can adjust it further from Dentrix Imaging Center later on.

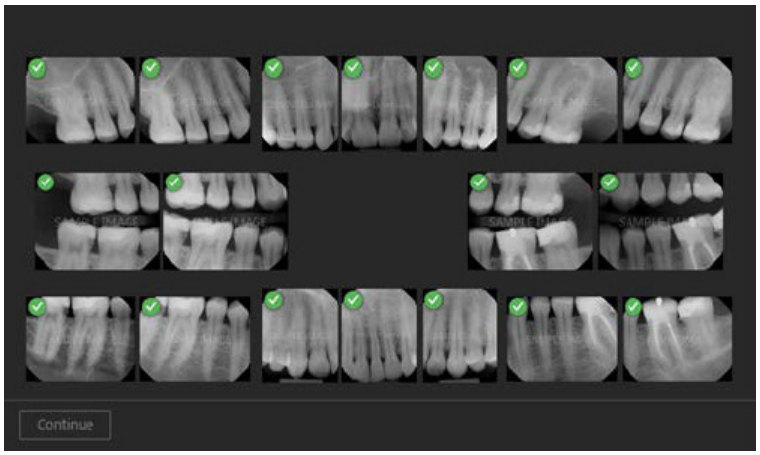
b. Click **Save**.

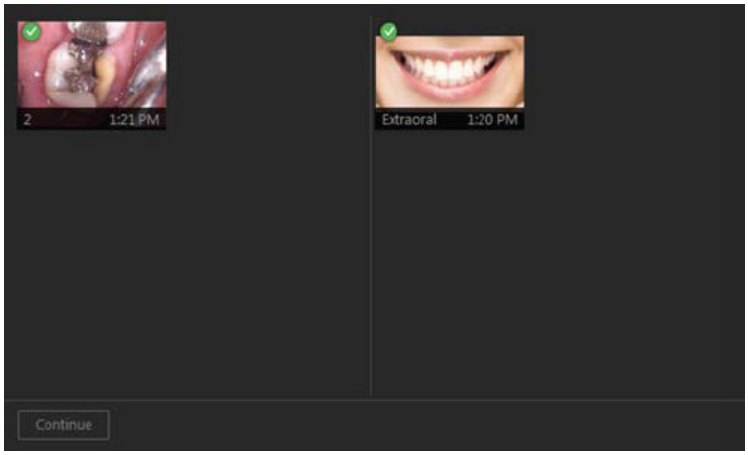
The resulting image appears in the Dentrix Imaging Center program.

17. Click **Finish Acquisition** (only for an individual intraoral or extraoral X-ray image, or a CAD/CAM Scan) or **Begin Uploading** (only for an intraoral X-ray series, intraoral photos, or extraoral photos).

    Note: For an intraoral X-ray series, if not all thumbnail images have been mounted into the template when you click Begin Uploading, a confirmation message appears. If you choose to continue, only the mounted images are saved.

18. If any images fail to upload, a message appears and provides the option for you to recover the images. Click **Recover Images** to begin the recovery process.
19. For an intraoral X-ray series, intraoral photos, or extraoral photos, when the images are finished being saved to the patient's record, click **Continue**.



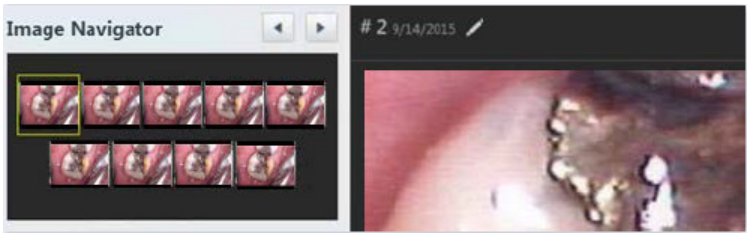


20. For a set of intraoral photos (or an individual intraoral photo or X-ray), you can assign tooth numbers to a selected snapshot by clicking the **Edit** button.

    For each snapshot that needs tooth numbers assigned to it, do the following:

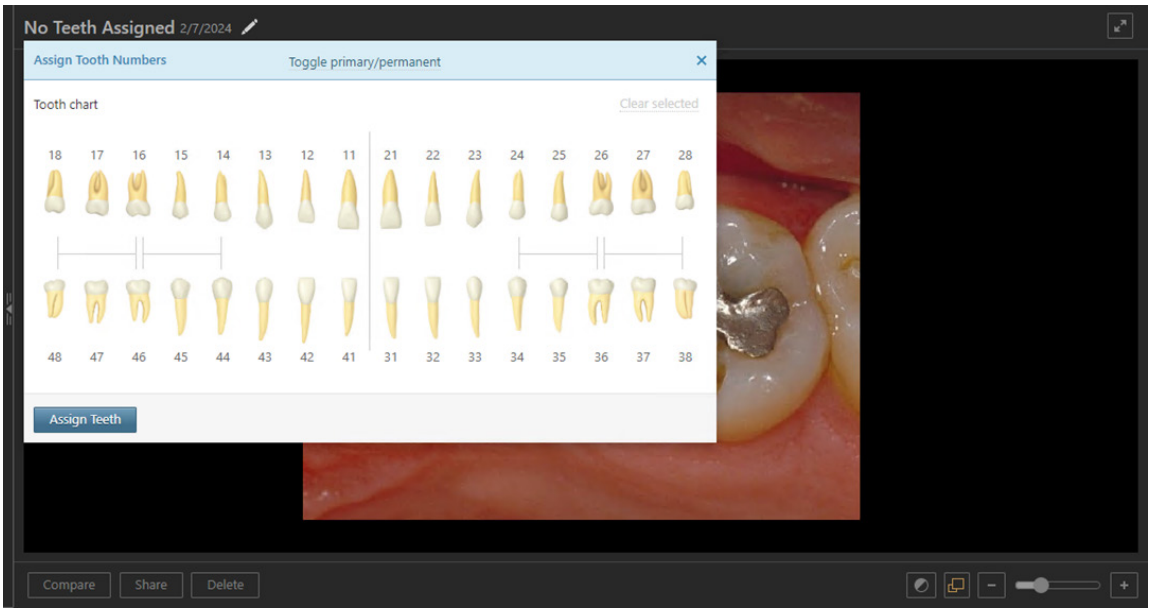
    a. Under **Image Navigator**, click an image thumbnail. You can skip this step if there is only one image thumbnail.

       A larger version of the current image appears in the viewing area.



    b. Click the **Edit** button.

       The **Assign Tooth Numbers** dialog box appears.



c. Select the applicable tooth numbers.

d. Click **Assign Teeth**.

Modifying Exams

You can resume incomplete exams, retake images in an exam, and recover missing images. You can also rearrange images in a set of images.

Resuming Incomplete Exams or Retaking Images

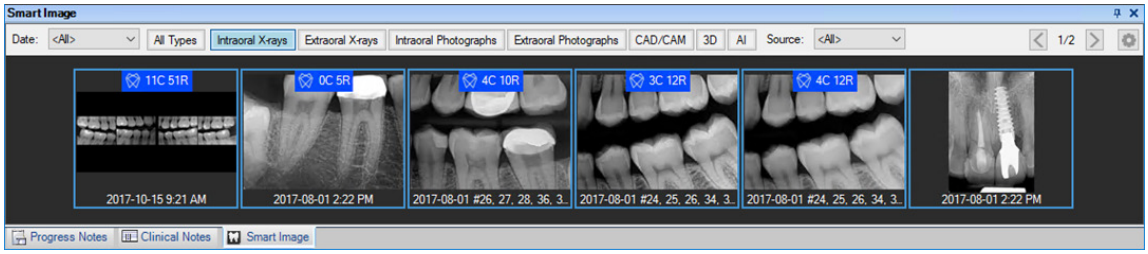
If you skipped the acquisition of any images in an exam that uses a set of images or canceled an exam before acquiring all the images, you can return to that exam and complete the image acquisitions as needed. You can also resume an exam to retake any or all of the images in that exam.

Note: The Exam view reappears if you cancel an image acquisition while recapturing or resuming an incomplete exam.

To resume an incomplete exam or retake images

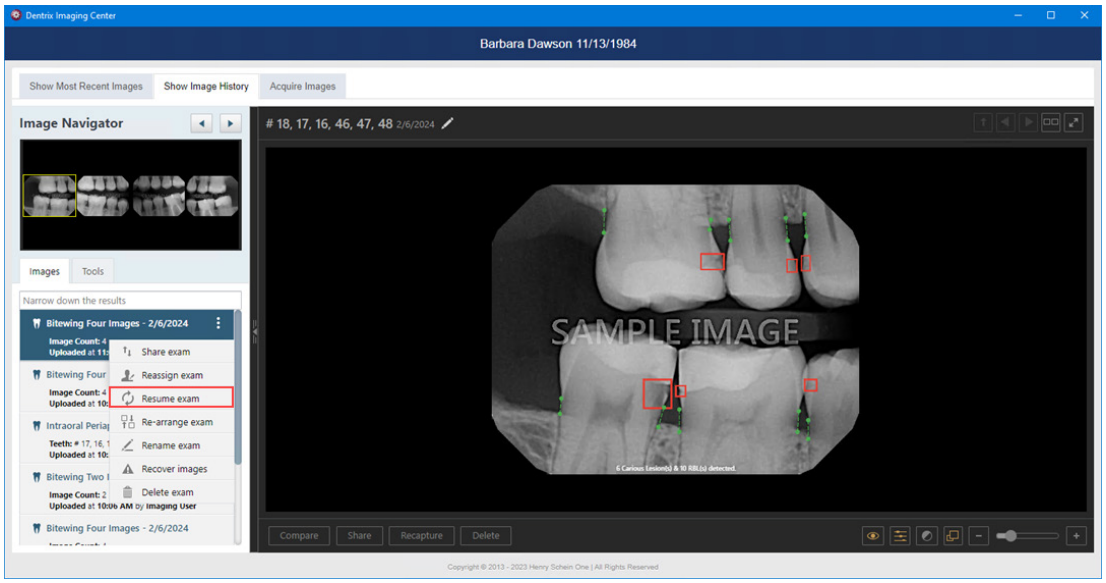
1. Open the Patient Chart and select a patient.

   All images pertaining to the selected patient appear in the **Smart Image** panel.



2. In the **Smart Image** panel, double-click the image you want to retake or resume.

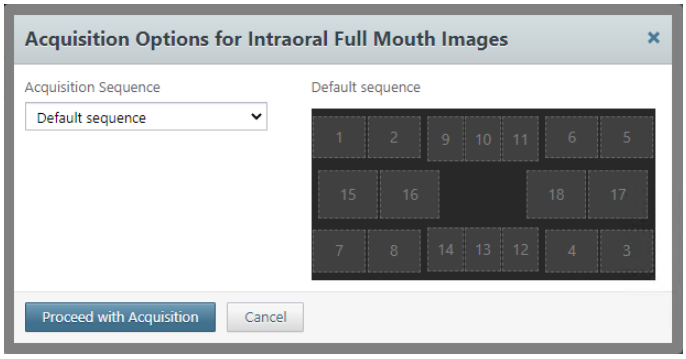
   The **Dentrix Imaging Center** dialog box opens with the **Show Image History** tab selected. The most recent image or series (such as a full mouth series or bitewings) is selected by default.



3. Select a series (such as a full mouth series or bitewings), and then on the corresponding options menu, click **Resume exam**.

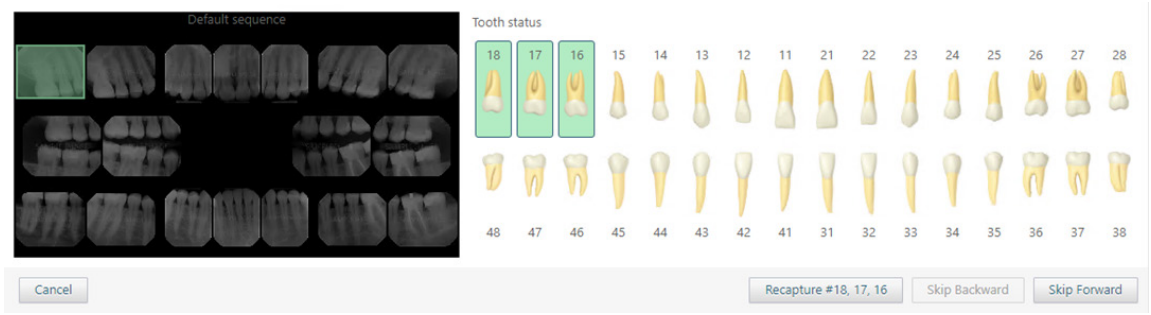
   Note: This option is available only if the exam is a series.

   The **Acquisition Options** dialog box appears.



4. Under **Acquisition Sequence**, select **Default sequence**, and then click **Proceed with Acquisition**.

   The options for acquiring images in the series appear.



5. Acquire missing images or retake images for the exam by completing one of the following:
   - If any images are missing, the first missing image in the sequence is selected automatically, so acquire the image. The next missing image in the sequence is selected automatically, so acquire the image. Repeat this process for any other missing images that you want to acquire as each one is selected.
   - If you are retaking an image, click **Skip Backward** or **Skip Forward** to navigate to the desired

image in the sequence. The acquisition is paused automatically. Click **Recapture**, and then acquire the image. Next, in the **Select Image** dialog box, click either **Keep Existing** to keep the original image or **Keep Recaptured** to replace the original image with the new one.

Note: If multiple retakes of the same tooth are in the wrong slot in a template/series, you can move any of the images in that slot to a different slot in the template.

Repeat this process for any other images that you want to retake.

Note: When the acquisition is paused (manually or automatically), the **Pause** button changes to either the **Recapture** button (for a box in the template with an existing image) or the **Capture** button (for an empty box in the template).

6. Click **Finish Acquisition**.

   Note: Once the acquisition device is ready to acquire an image, the **Cancel** button changes to the **Finish Acquisition** button.

7. If any images fail to upload, a message appears providing the option for you to recover the images. Click **Recover Images** to begin the recovery process.

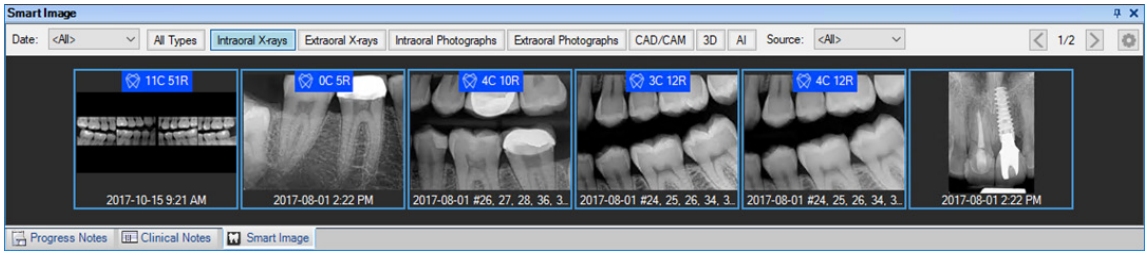
Recovering Images

If an individual image or any images in a set did not get uploaded to the server, you can recover those images from the computer where those images were acquired.

To recover images

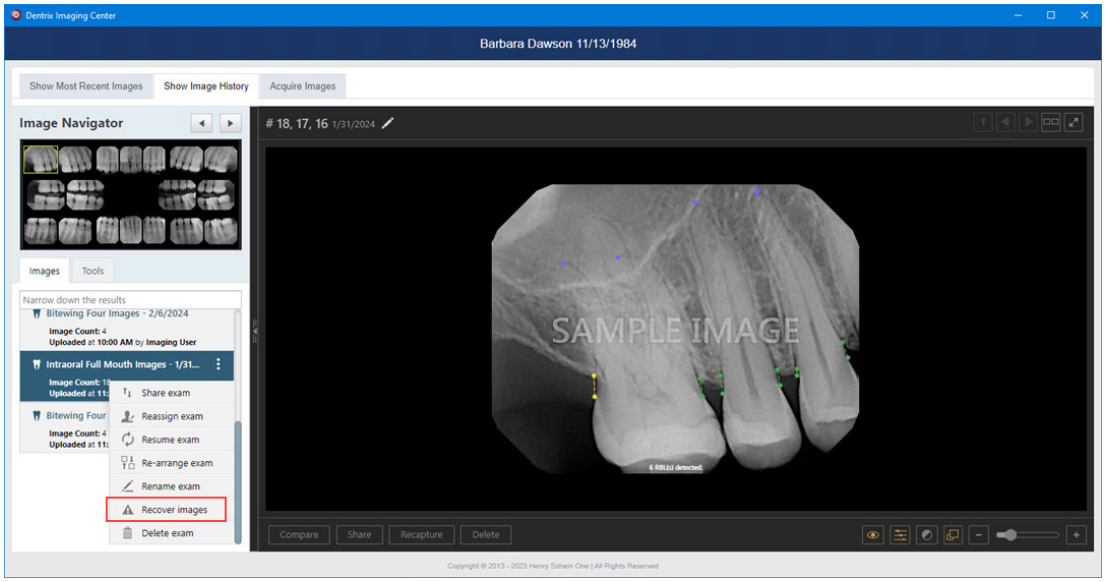
1. Open the Patient Chart and select a patient.

   All images pertaining to the selected patient appear in the **Smart Image** panel.



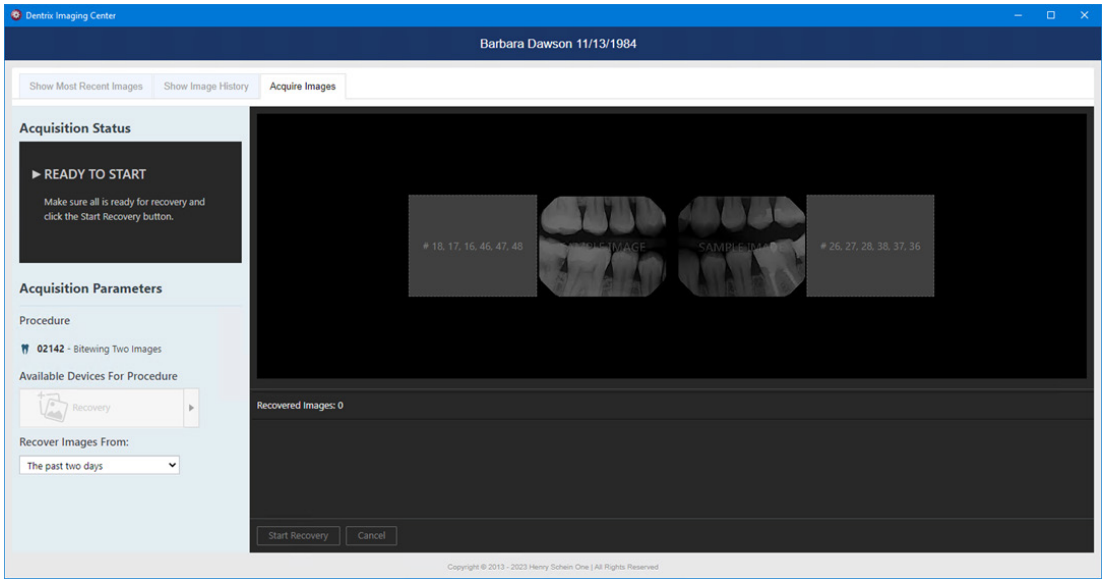
2. In the **Smart Image** panel, double-click the image you want to recover.

   The **Dentrix Imaging Center** dialog box opens with the **Show Image History** tab selected.



3. Select a series (such as a full mouth series or bitewings), and then on the corresponding options menu, click **Recover images**.

   The options for recovering images appear.



4. In the **Recover Images From** list, select either **The past two days** to search for images from the past two days or **All time** to search for images from any time in the past.
5. Click **Start Recovery**.

The recoverable images appear in the panel at the bottom of the page.

6. One at a time, drag the correct thumbnail images from the panel to the appropriate boxes of the template. For intraoral or extraoral photos, you can select multiple thumbnail images on the panel and then drag them together.
7. Click **Begin Uploading**.

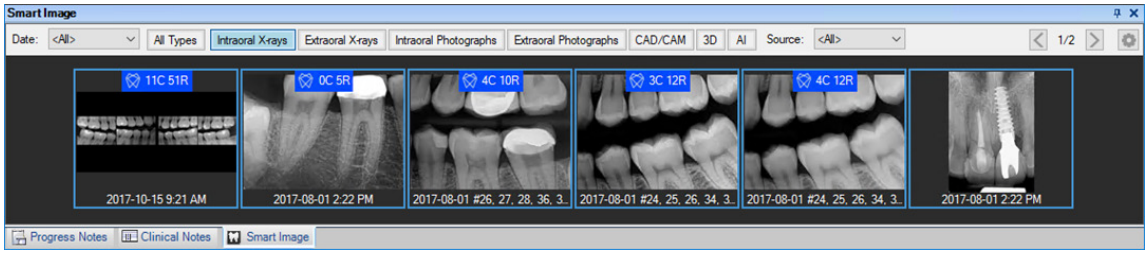
Rearranging Images in Exams

You can rearrange images within an exam that uses a set of images.

To rearrange images in an exam

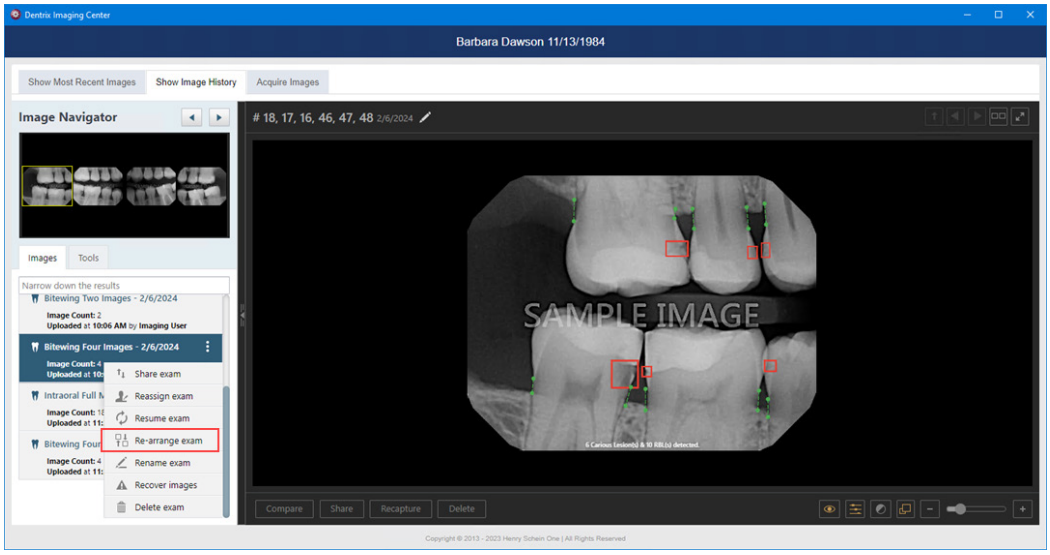
1. Open the Patient Chart and select a patient.

   All images pertaining to the selected patient appear in the **Smart Image** panel.



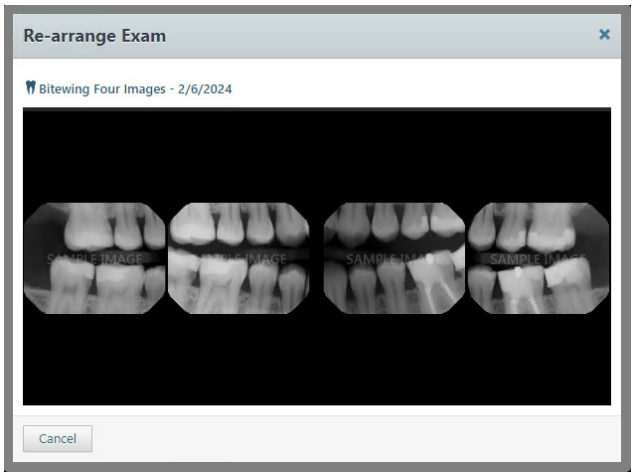
2. In the **Smart Image** panel, double-click the exam you want to rearrange.

   The **Dentrix Imaging Center** dialog box opens with the **Show Image History** tab selected.



3. Select a series (such as a full mouth series or bitewings), and then on the corresponding options menu, click **Re-arrange exam**.

   The **Re-arrange Image** dialog box appears.

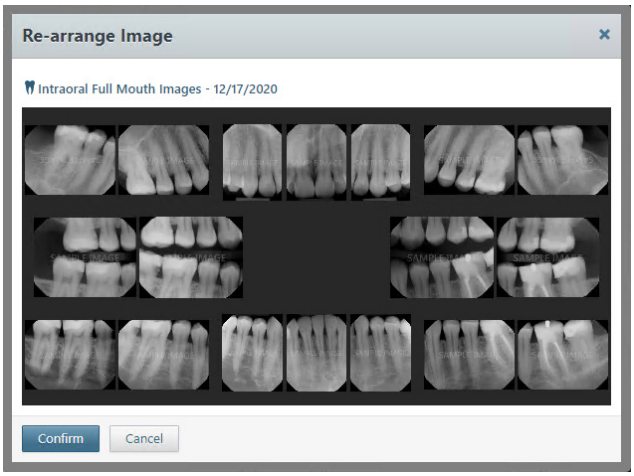


4. Do any of the following as needed:
   - To swap two images in the template, drag one of the images to the box with another image.

   - To move an image to an empty box in the template, drag the image to the desired box.
   - To change the orientation of an image in the template, select it to view the toolbar, and then click any of the available buttons as needed: **Flip Horizontal**, **Flip Vertical**, **Rotate Counterclockwise** (- 90 degrees), and/or **Rotate Clockwise** (90 degrees).

     Note: If an image is flipped, the **Rotate Clockwise** and **Rotate Counterclockwise** buttons rotate the image in the same direction as if the image was not flipped.

When you have moved or changed the orientation of at least one image, the **Confirm** button becomes available.



5. When you have finished rearranging the images, click **Confirm**.

Viewing Images

You can view the recent images and the image history for a patient. You can also quickly determine which teeth have images and view images for selected teeth.

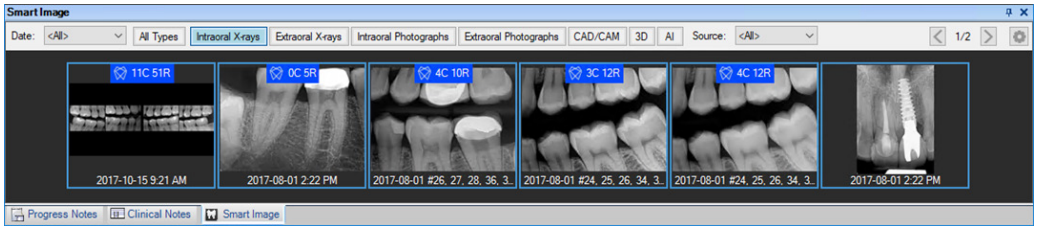
Viewing Recent Images

You can view a patient's most recent images by category. This is the default view when you click the **Show Most Recent Images** tab of the patient's clinical record.

To view a patient's recent images

1. Open the Patient Chart and select a patient.

   All images pertaining to the selected patient appear in the **Smart Image** panel.



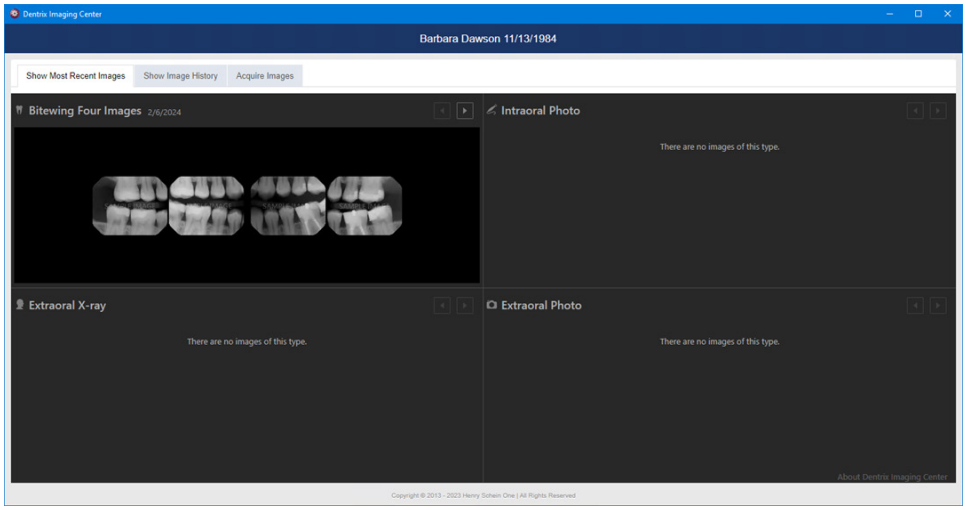
2. In the **Smart Image** panel, double-click an image.

   The **Dentrix Imaging Center** dialog box appears.

   Note: You also click the Show the Most Recent 2D/3D and CAD/CAM Images button on the Smart Image toolbar to view a patient's most recent images.

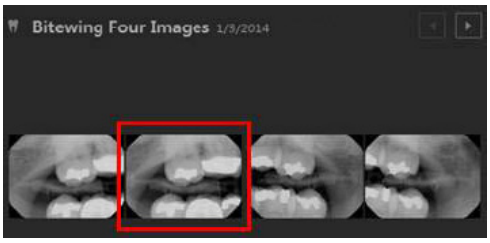
3. Click the **Show Most Recent Images** tab.

   The most recently captured images for the selected patient appear.



4. In any of the boxes corresponding to categories (intraoral X-rays, intraoral photos, extraoral photos, extraoral X-rays, CAD/CAM scans, and 3D volumes), do any of the following:
   - Click the **Previous** button to view an image acquired prior to the currently displayed image. This button is available only if there is an older image.
   - If you have navigated to an older image, click the **Next** button to view a more recent image.
   - Click the currently displayed image to view that image larger. The image opens in the **Show Image History** view. For information about using the image history view, see "Viewing Image History."

     Note: If you click a specific image of a series (a full mouth series or bitewings), that image appears by itself, and you can easily navigate through the other images in that series in the patient's **Show Image History** view.



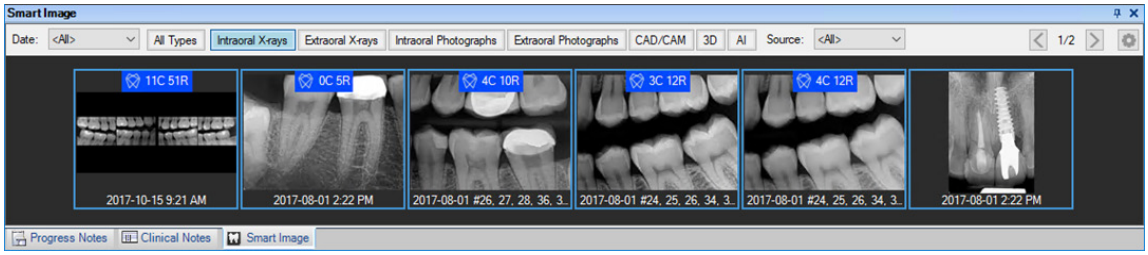
Viewing Image History

You can view a patient's entire image history chronologically and quickly navigate between each image. Also, in the history view, you can view individual images larger than you can in the recent images view, and you can process (such as enhance or annotate) an image. For information about using the recent images view, see "Viewing Recent Images." For information about processing images, see "Processing Images."

To view a patient's image history

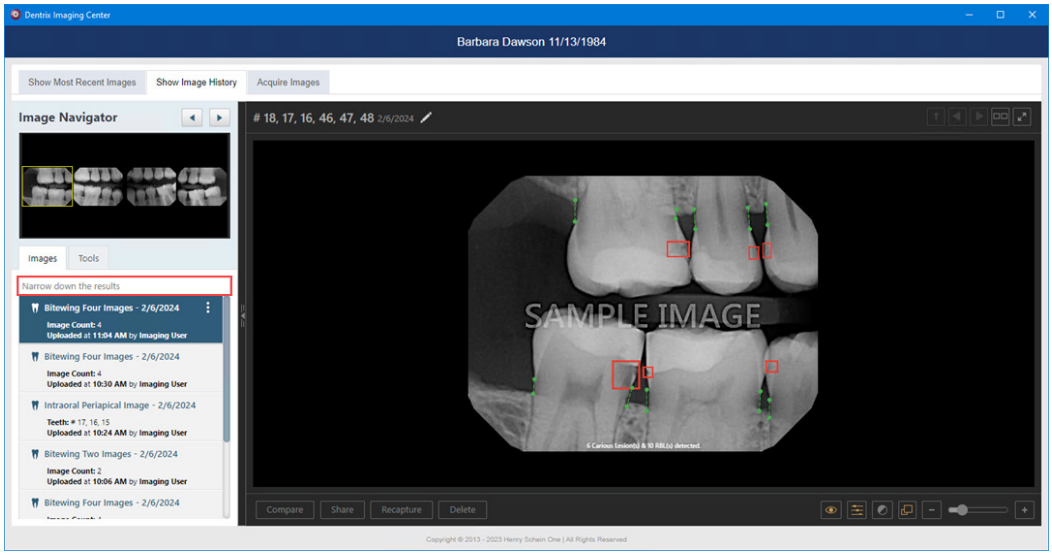
1. Open the Patient Chart and select a patient.

   All images pertaining to the selected patient appear in the **Smart Image** panel.



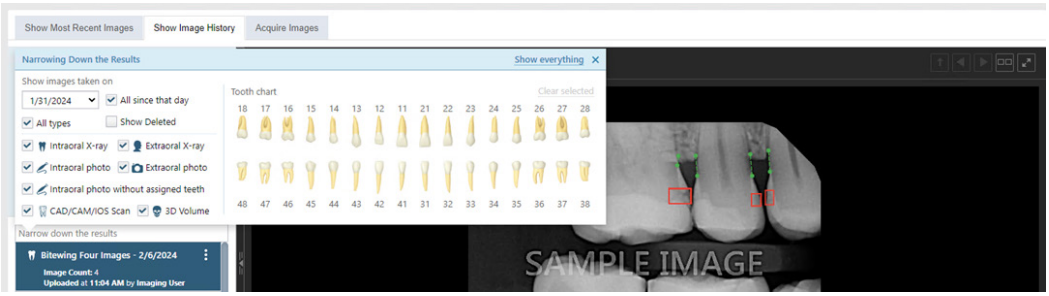
2. In the **Smart Image** panel, double-click an image.

   The **Dentrix Imaging Center** dialog box appears.



3. If needed, filter the list of images on the **Show Image History** tab to display only the images that match the filter criteria that you specify.

   a. Click **Narrow down the results** to view the available filters.



   b. Set up any of the following filters:

   - **Date** – To view the images according to a different date, select the desired date in the list under **Show images taken on**. To view all images that have been acquired on and after the selected date, select the **All since that day** check box. To view the images that were acquired only on the selected date, clear the **All since that day** check box.
   - **Type** – To view images in any category (intraoral X-rays, intraoral photos, intraoral photos without tooth numbers assigned, extraoral X-rays, extraoral photos,CAD/CAM scans, and 3D volumes), select the **All types** check box. To view images in only certain categories, make sure the check boxes of only those categories are selected; the other check boxes must be cleared.
   - **Teeth** – If the **Intraoral X-ray** and/or **Intraoral photo** check boxes are selected, to view those types of images for specific teeth, select the desired teeth on the **Tooth Chart**. The tooth

filter does not apply to intraoral photos that do not have tooth numbers assigned to them and extraoral X-rays (which apply to all teeth), and extraoral photos (which apply to all teeth). To clear all tooth selections, click the **Clear selected** link.

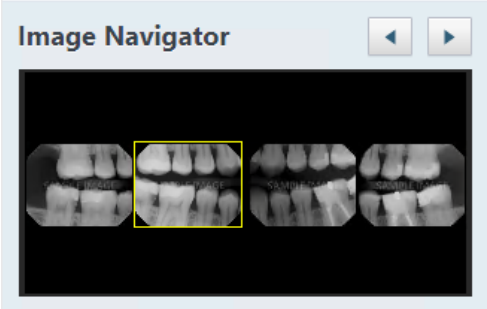
- **Show everything** – To set the filter options to their default states and display all the patient's images, click the **Show everything** link.

The image list displays the images that match your filter criteria.

c. Click the **X** in the upper-right corner of (or anywhere outside of) the **Narrowing Down the Results** menu to close the menu.

4. With an image or a series selected, do any of the following:

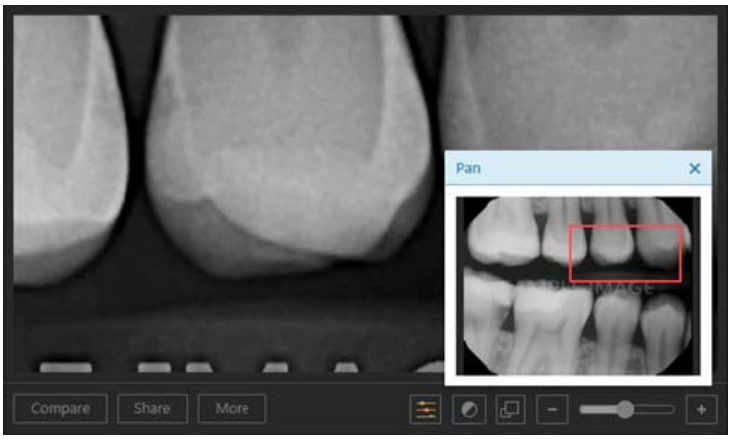
- **Navigate the series** – If you have selected a series (such as a full mouth series or bitewings), to navigate between the images of that series, click each image of the series under **Image Navigator**. A larger version of the current image (highlighted with a yellow box) in the series appears in the viewing area.



Note: You can also click the Previous and Next buttons to navigate between the images in the set.

- **Zoom in/out** – To increase the zoom level (zoom in), move the **Zoom** slider to the right. To decrease the zoom level (zoom out), move the slider to the left. If you are using a mouse, you can also zoom in and out by positioning the pointer over the image and then rotating the scroll wheel of your mouse.

  If you increase the zoom so that the whole image no longer fits in the viewing area, the **Pan** dialog box appears. Drag the red box around on the thumbnail image in the dialog box to display the area within the red box in the main viewing area.



- **Quickly resize** – By default Dentrix Imaging Center displays images as large as it can in the viewing area. This can cause the images from some older devices or programs to look fuzzy or grainy. To view the image smaller and sharper, click the Smaller/Larger button. The button becomes orange. To view the image as large as it can be and still all fit in the viewing area, click the button again.

Note: The state of the **Smaller/Larger** button also affects the preview size of images during acquisitions and the size of images in the **Image Peek** dialog box. The state of the button is stored per computer.

- **View full screen** – To view the image full screen, click the **Full Screen** button. To return to the normal view mode, click the **Normal Mode** button.

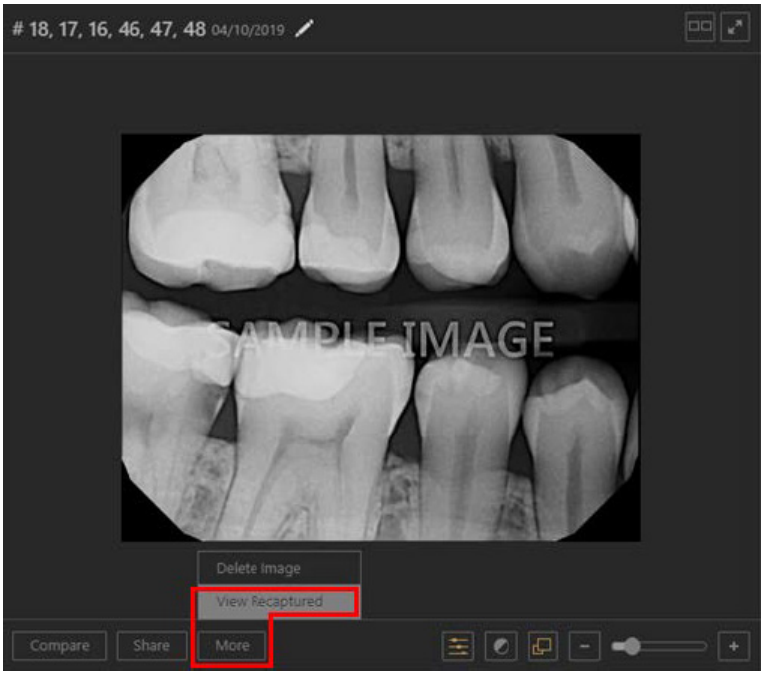
  Note: The "full screen" view is only as large as the application window.

- **View the entire series** – If you have selected a series (such as a full mouth series or bitewings), to view all the images in the series at once in the viewing area, click the **Series Mode** button. Then, to return to the single-image view mode, do one of the following:
  - Click an image in the viewing area to view only that image.
  - Click an image under **Image Navigator** to view only that image.

  - Click the **Single Mode** button.

  Note: You can zoom in and out while viewing a series.

- **View recaptured images** – If the image being displayed has been recaptured, **View Recaptured** is available (as a button or an option on the **More** button menu).

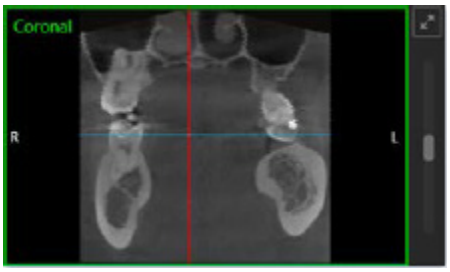


  To view other versions of the image and even choose which one should be active (visible when viewing the exam), either click the **View Recaptured** button, or select the **View Recaptured** option on the **More** button menu. The **View Recaptured Images** dialog box appears.

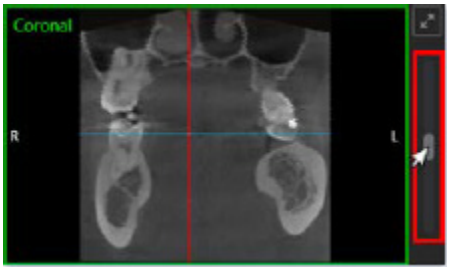
The current image appears on the left; other versions, on the right. To navigate between each version, next to **Recaptured Image**, click the **Previous** and **Next** buttons. To use the image being displayed under **Recaptured Image** instead of the one under **Current Image** for the exam, click **Replace Current**.

Note: All original and recaptured images are always stored.

- **Resize a view** – (For a 3D volume only) To resize one of the views (coronal, sagittal, or axial) of the 3D volume to fill the viewing area, click the corresponding Toggle Displaying Full Panel button (outward-pointing arrows on the button indicate the view is normal). To return to the normal view mode, click the Toggle Displaying Full Panel button (inward-pointing arrows on the button indicate the view is expanded).

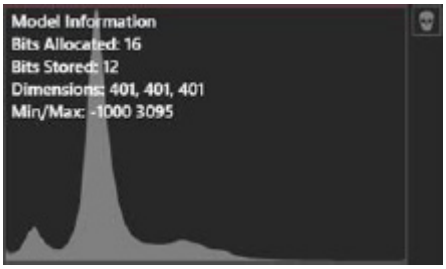


- **Rotate Anatomy** – (For a 3D volume only) If the anatomy is crooked, to rotate the plane for a slice view (to move the slice plane axis), in the **Coronal**, **Sagittal**, or **Axial** view box, right-click and drag up or down. The other two views adjust accordingly to the rotation you specify. You can rotate the axis from -45 to +45 degrees about the slice center point.
- **Navigating through the slices** – (For a 3D volume only) To navigate through the slices of the 3D volume, drag the slider next to the Coronal, Sagittal, or Axial view. As you drag the slider, the slice plane indicators (crosshairs) of the other two views adjust accordingly. Drag the sliders of the other views as needed. Alternatively, you can click anywhere on the view to move the slice plane indicators to that spot.



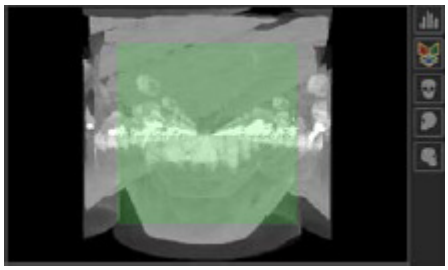
- **Changing the slice thickness** – (For a 3D volume only) To change the thickness of the slices for the 3D volume, select a different value from the **Thickness** list: **0.20 mm**, **0.60 mm**, **0.80 mm**, or 1.00 mm.

- **Reset the views** – (For a 3D volume only) After adjusting the slice plane indicators and/or changing the slice thickness, to return to the default position and thickness, click the **Reset Workup** button.
- **Hide/show the slice plane indicators** – (For a 3D volume only) To hide the slice plane indicators (crosshairs) while you are viewing the 3D volume, click the **Show/hide slice plane indicators** button (yellow on the button indicates they are visible). To view the slice plane indicators, click the **Show/hide slice plane indicators** button again (gray only on the button indicates they are hidden).
- **View the histogram or a rendered 3D image** – (For a 3D volume only) By default a histogram appears in the lower-right box. To view a rendered 3D image of the volume (all slices of the volume combined), click the **Swap for Volume Render Panel** button.



While viewing the rendered 3D image, do the following, as needed:

- To hide the volume plane indicators, click the **Show/hide volume plane indicators** button (yellow on the button indicates they are visible). To return to viewing the volume plane indicators, click the **Show/hide volume plane indicators** button again (no yellow on the button indicates they are hidden).
- To rotate the image to view it from the left side, click the **Snap to left view** button.
- To rotate the image to view the right side, click the **Snap to the right view** button.
- To rotate the image to view it from the front, click the **Snap to front view** button.
- To return to viewing the histogram, click the **Swap for Histogram Panel** button.



Important: The ability to render a 3D image and the speed with which it is accomplished depends on the size of the volume and either the onboard graphics processor or the discrete graphics card of your computer. If the image does not render, you may need to upgrade your graphics hardware.

- **Saving a snapshot** – (For a 3D volume only) To save a copy of the 3D volume as it is currently being viewed as a two-dimensional image (.jpg file) that you can attach to an insurance claim, click **Snapshot**.

Navigating Image Stacks

An "image stack" refers to a collection of images that are grouped together by tooth number in the same exam. This grouping facilitates a layered display within the imaging software, allowing users to navigate through the images by interacting with UI controls. The arrangement of the stack ensures that the most recently captured image is typically displayed at the top, but users can easily access earlier images by using the arrow buttons to navigate through the images. This allows the user to closely compare subtle changes and details within the same area across different images taken in the same exam.

In the Single Mode viewer, you can select any image slot that contains multiple images. To navigate through the images in the stack, use the arrow buttons located in the header. The header will update to indicate the position of the current image within the stack, displaying formats such as "x of y", "1 of 2", and so on.

Similarly, in Series Mode, you can navigate through image stacks by using the arrow button in the header of each thumbnail.

To navigate an image stack

1. Click the Previous or Next button (to the right of the image count) to navigate the images.

   The number of images in the stack appear in the upper-right corner of the image.

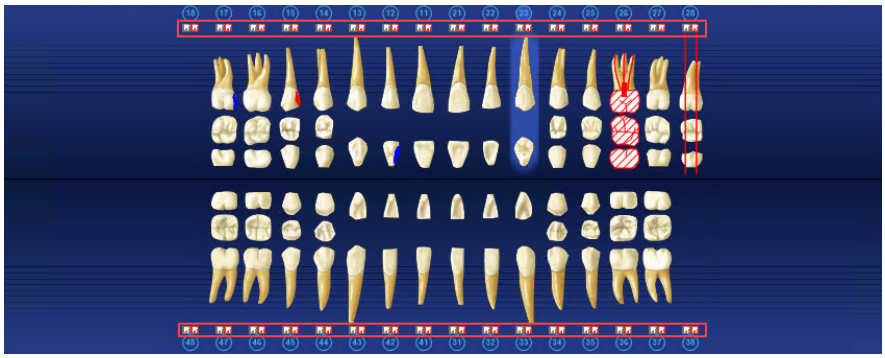
Viewing Images of Selected Teeth

You can determine which teeth have images associated with them from a patient's clinical chart and progress notes.

To view images of selected teeth

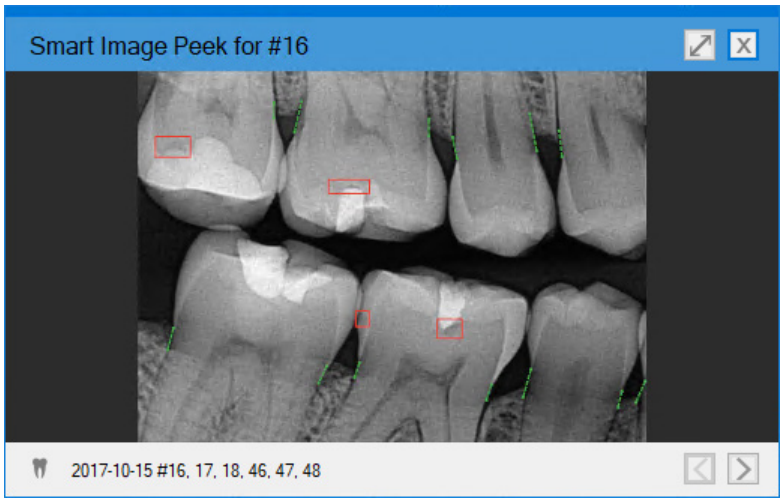
1. Open the Patient Chart and select a patient.

   All images pertaining to the selected patient appear in the **Smart Image** panel. Also, if a tooth has an image, a small icon appears in the graphic/clinical chart for each tooth above or below the tooth number.



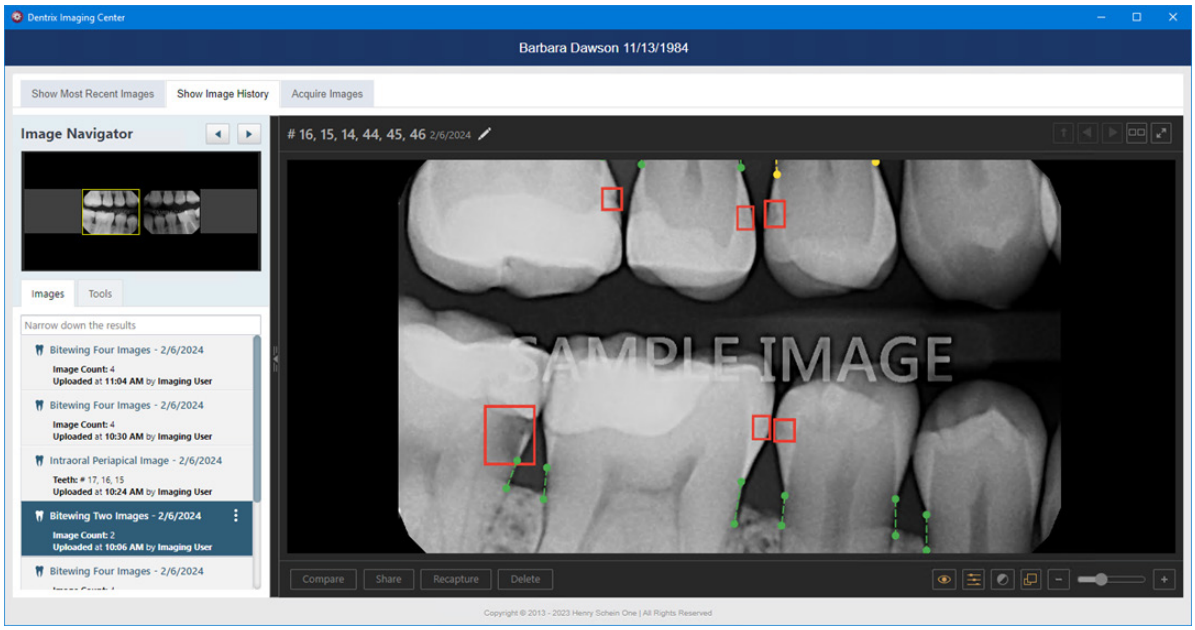
2. To view one or more teeth, select them in the graphic/clinical chart, and then click the small icon above or below the tooth number.

   The **Smart Image Peek** dialog box for the selected tooth or teeth appears.



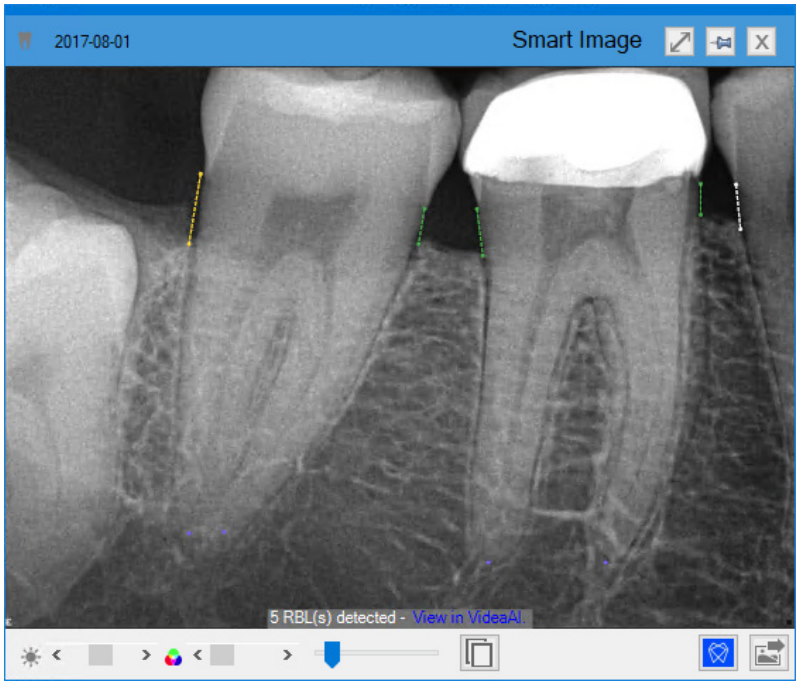
3. In the **Smart Image** panel, double-click an image.

   The **Dentrix Imaging Center** dialog box appears.



4. Do one of the following:

- In the **Image Navigator**, select the image that you want to view. An enlarged view of the image appears in the adjacent viewer. To move from one image to the next, click the **Previous** or **Next** button.
- In the **Smart Image** panel, click the image you want to view. An enlarged view of the image appears. You can use the icons at the bottom of the screen to reset or adjust the image gamma, reset or adjust the image contrast, adjust the zoom ratio, export the image, or launch the imaging software associated with the image.



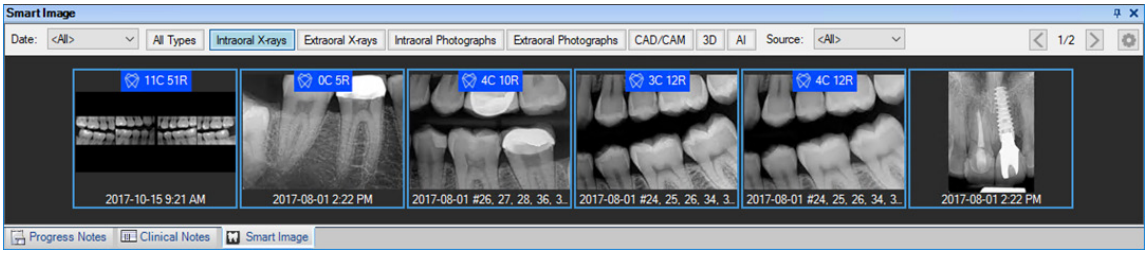
Comparing Images

You can compare two images side by side.

To compare images

1. Open the Patient Chart and select a patient.

   All images pertaining to the selected patient appear in the **Smart Image** panel.

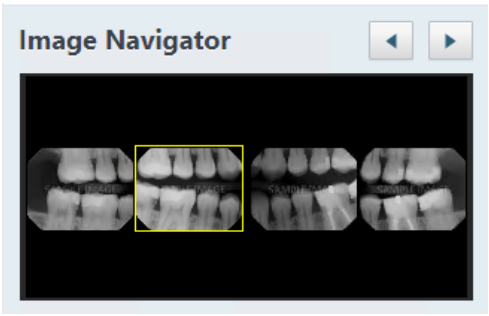


2. Do one of the following:
   - View an image from the patient's **Smart Image** panel.
     a. Double-click the image that you want to view.

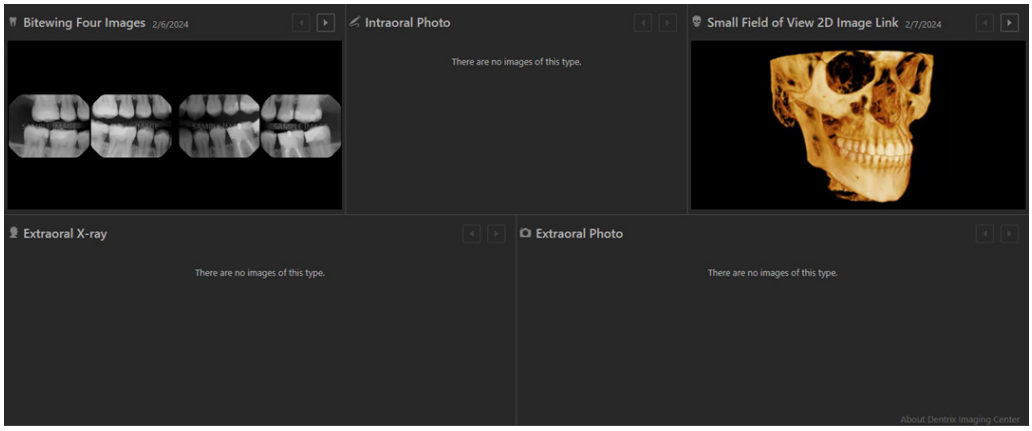
        The **Dentrix Imaging Core** dialog box appears.

     b. On the **Show Image History** tab, select an image or a series (such as a full mouth series or bitewings).

c. If you have selected a series, under **Image Navigator**, click an image of that series.



- View one of the patient's most recent images.
  a. Do one of the following:
     - Click the **Show Most Recent Images** tab, and then double-click the image that you want to view.
     - Click any single image (intraoral X-ray, intraoral photo, extraoral photo, extraoral X-ray, CAD/CAM scan, or 3D volume) or an image within a series (such as a full mouth series or bitewings).



The selected image appears in the viewing area.

3. Click **Compare**.

   The images that have tooth numbers in common with the selected image (the "Original") appear on the **Images for tooth range** panel.

   Note: If you are using Dentrix Detect AI, those results will also appear when you compare images.

4. If needed, filter the **Images for tooth range** panel to display only the images that match the filter criteria that you specify.

   Do the following:

   a. Click the **Edit** button (at the top of the panel) to view the available filters.

   b. Set up any of the following filters:

   - **Date** – To view the images according to a different date, select the desired date in the list under **Show images taken on**. To view all images that have been acquired on and after the selected date, select the All since that day check box. To view the images that were acquired only on the selected date, clear the **All since that day** check box.
   - **Type** – To view images in any category (intraoral X-rays, intraoral photos, intraoral photos without tooth numbers assigned, extraoral X-rays, extraoral photos, CAD/CAM/iOS scans,

and 3D volumes), select the **All types** check box. To view images in only certain categories, make sure the check boxes of only those categories are selected; the other check boxes must be cleared.

- **Teeth** – If the **Intraoral X-ray** and/or **Intraoral photo** check boxes are selected, to view those types of images for specific teeth, select the desired teeth on the **Tooth Chart**. The tooth filter does not apply to intraoral photos that do not have tooth numbers assigned to them and extraoral X-rays (which apply to all teeth), and extraoral photos (which apply to all teeth). To clear all tooth selections, click the **Clear selected** link.
- **Show everything** – To set the filter options to their default states and display all the patient's images, click the **Show everything** link.

The image list displays the images that match your filter criteria.

c. Click the **X** in the upper-right corner of or anywhere outside of the **Narrowing Down the Results** menu to close the menu.

5. The first image on the **Images for tooth range** panel is selected by default, but you can select a different image to compare with the original.
6. To modify how an image is being viewed, click the **Original** or **Compared** image, and then do any of the following for the selected image:
   - Use the (yellow or blue) **Brightness/Contrast** button to change the brightness and/or contrast.

     Note: You can perform brightness/contrast adjustments over the entire image area canvas. The zoomed size of the image does not affect the range of the brightness/cintrast adjustments you make.

   - Use the (yellow or blue) **Zoom** slider to zoom in and out.
   - While zoomed in on an image, drag the blue square (on the comparison image on the **Images for tooth range** panel) or the yellow square (on the image under **Image Navigator**) to pan to another part of the image.
7. Linking the images being compared allows the zooming and panning of one image to be synchronized with the other. To link images, do the following:

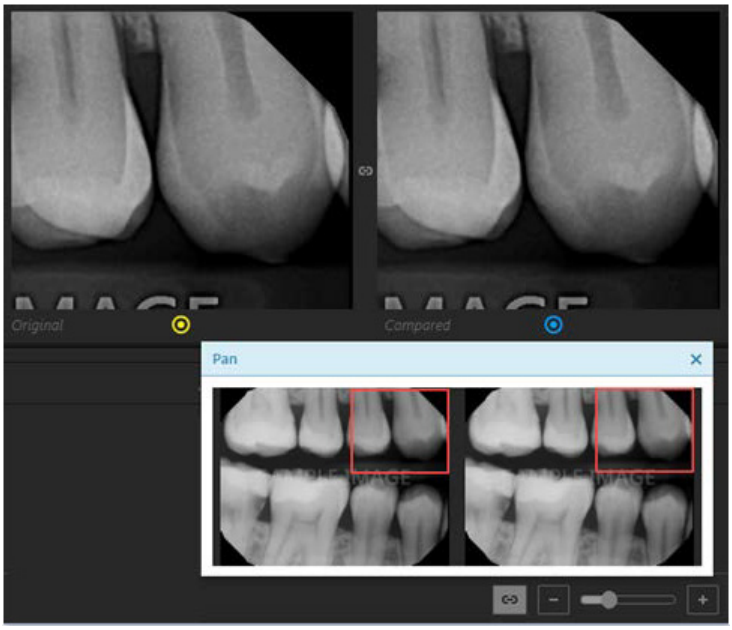
   a. Click the **Original** or **Compared** image (zoomed and panned or not).

   b. Click the (yellow or blue) Link button.

   The images are linked.

   Note: If you alter the zoom and/or pan of an image before linking it to the other, when you link them, the zoom factor and the position of the pan box (red box) of the other image is synchronized to be the same as the first.

Now, as you zoom in and out and pan, both images are affected.



Note: To unlink the images, click the (yellow or blue) Link button.

8. Click **Finish Comparison**.

Processing Images

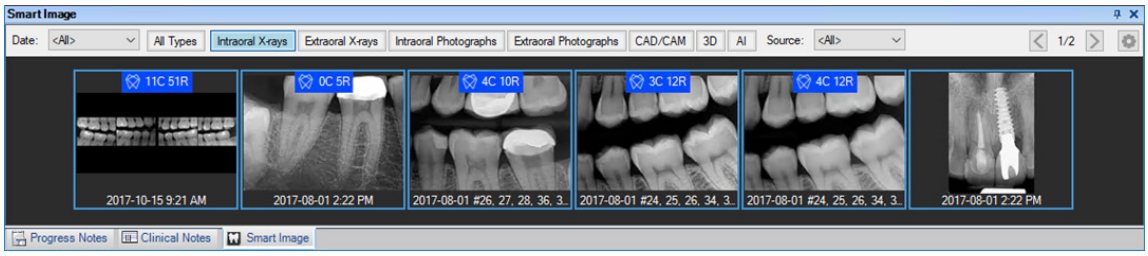
You can perform various processing tasks, such as enhancing and annotating, on images.

Note: Any processing that you perform on an image is permanent (except for colorize, gray scale, and emboss, which are temporary). However, you can view the image in its original state by turning off any processing filters that you have applied.

To process an image

1. Open the Patient Chart and select a patient.

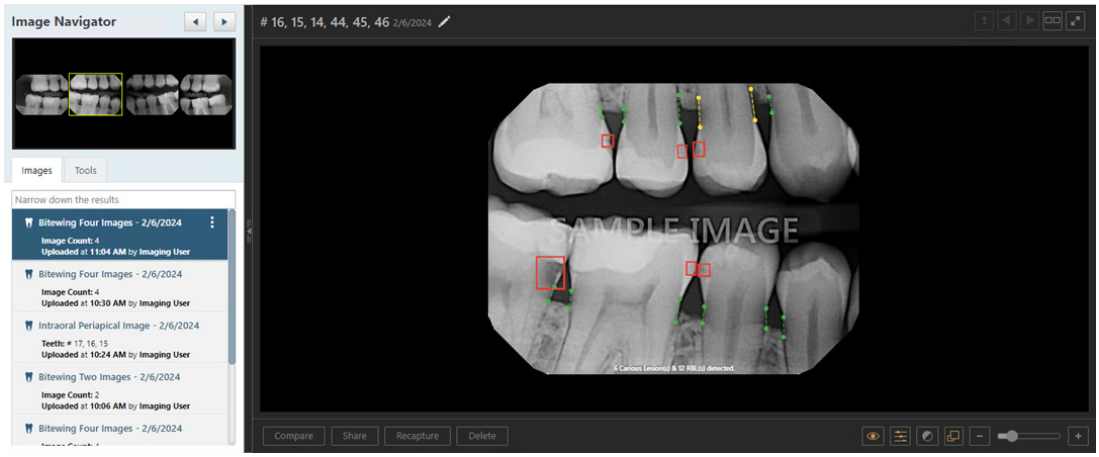
   All images pertaining to the selected patient appear in the **Smart Image** panel.



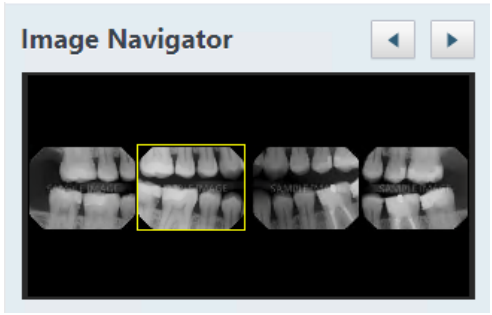
2. Do one of the following:
   - View an image from the patient's image history list.
     a. Double-click the image that you want to view.

        The **Dentrix Imaging Center** dialog box appears.
     b. On the **Show Image History** tab, select an image or a series (such as a full mouth series or

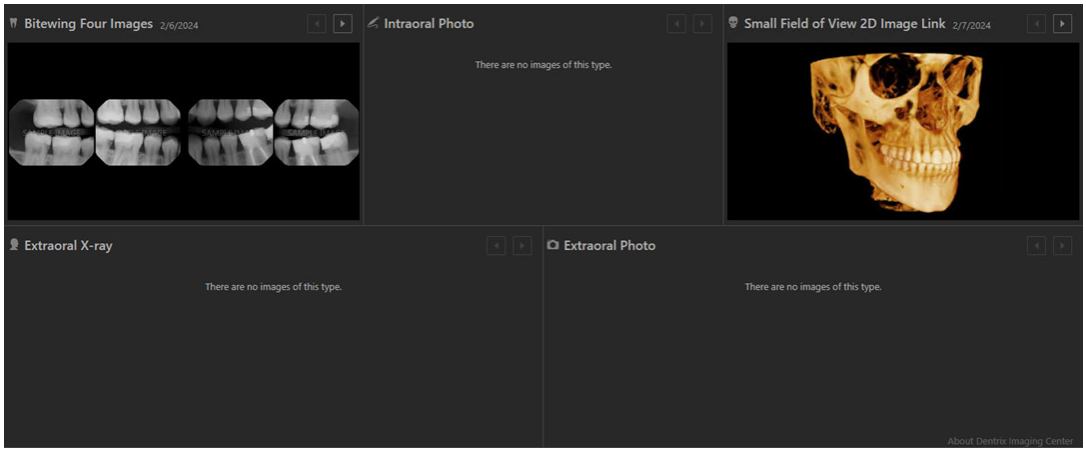
bitewings).



c. If you have selected a series, under **Image Navigator**, click an image of that series.



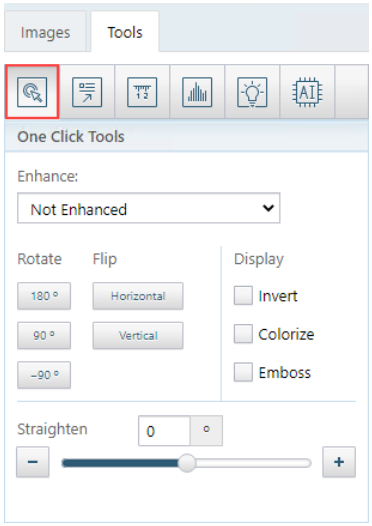
- View one of the patient's most recent images.
  a. Do one of the following:
     - Click the **Show Most Recent Images** tab, and then double-click the image that you want to view.
     - Click any single image (intraoral X-ray, intraoral photo, extraoral photo, extraoral X-ray, CAD/CAM scan, or 3D volume) or an image within a series (such as a full mouth series or bitewings).



The selected image appears in the viewing area.

3. Click the **Tools** tab if it is not already selected.
4. Use any of the following tools as needed:

   One Click Tools



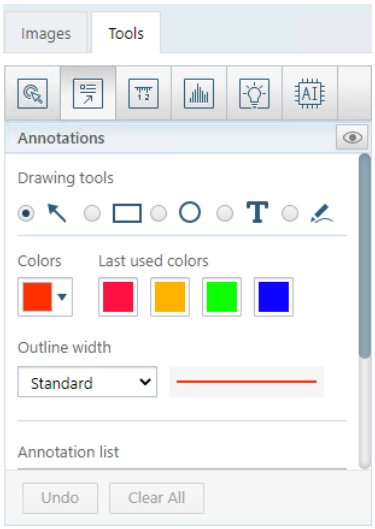
- **Enhance** – Select the filter that corresponds to the anatomical structures that you want to enhance in an X-ray:
  - **Not Enhanced** – The image is not enhanced.
  - **Entire Image** – Adds a balance of sharpening and contrast levels that affects the overall sharpness and contrast.
  - **For Perio** – Adds a lower level of sharpening and a gray level adjustment to accentuate the subtle differences in the gray scale values of periodontal conditions.
  - **For Endo** – Adds a higher level of sharpening and contrast and a gray level adjustment to accentuate endodontic conditions. You may want to use this filter, for example, to help you to see the position of a file in relation to the root of a tooth when doing a root canal.

  Note: To switch between viewing the image with or without an applied enhancement, click the **Enhancement** button. If the enhancement is turned on, the button is gray. If the enhancement is turned off, the button is orange.

- **Rotate** – Click the button that corresponds to how you want to rotate the image: 180 degrees (clockwise), 90 degrees (clockwise), or -90 degrees (counterclockwise).
- **Flip** – Click the button that corresponds to how you want to flip the image: **Horizontal** or **Vertical**.
- **Invert** – To invert the image's colors, select the **Invert** check box. To remove the filter, clear the check box.

- **Colorize** (X-rays only) – To convert the image from gray scale to color, select the **Colorize** check box. To remove the filter, clear the check box. This option is available only for intraoral and extraoral X-rays.
- **Grayscale** (Photos only) – To convert the image from color to gray scale, select the **Grayscale** check box. To remove the filter, clear the check box. This option is available only for intraoral and extraoral photos.
- **Emboss** – To emboss the image, select the **Emboss** check box. To remove the filter, clear the check box.

Annotations



To add a shape, do the following:

a. Under **Drawing tools**, select a shape: arrow, rectangle, or circle.

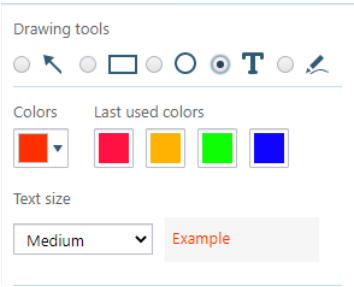
b. Select a line color and thickness:

- Select a color from the **Colors** menu, or click one of the **Last used colors**.
- Select an **Outline width**: extra thin, thin, standard, wide, or extra wide. A preview of the selected line thickness that will be used for the shape appears.

c. Click and drag over a specific area of the image to create the shape.

To add text, do the following:

a. Under **Drawing tools**, select the T (text) option.

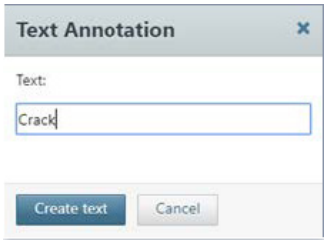


b. Select a font color and size:

- Select a color from the **Colors** menu, or click one of the **Last used colors**.
- Select a **Text size**: small, normal, medium, large, or extra large. A preview of the selected font size that will be used for the text appears.

c. Click and drag to create a rectangle with dashed borders around the area of the image that you want to draw attention to.

The **Text Annotation** dialog box appears.



d. Enter the desired **Text**.

e. Click **Create text**.

The text appears above the rectangle that you created in step c.

To draw freehand, do the following:

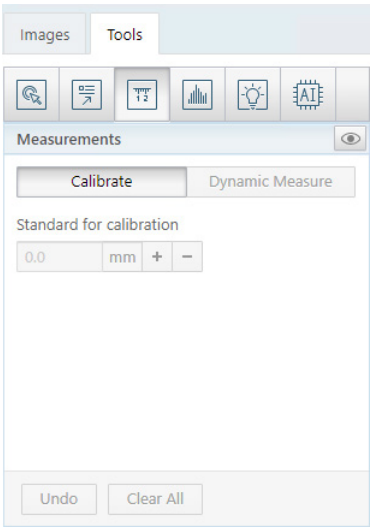
a. Under **Drawing tools**, select the freehand drawing icon.

b. With your mouse pointer, draw the shape you desire.

Notes:

- To remove the last annotation that you added to the image, click **Undo**.
- To remove all annotations from the image, click **Clear All**.
- To switch between showing and hiding annotations and measurements, click the **Annotations/ Measurements** button. The button is available only if an annotation or a measurement has been applied to the image.

Measurements



Important: Distance and Angle measurements are calculated from specified points after calibration from an object with a known length. Image resolution, displayed size, inherent image quality, and proper calibration all affect the accuracy of the measurement results. However, the factors that have the greatest effect on the overall precision of a measurement are the accuracy of the calibration and selection of the start and end points of the actual line or angle to be measured. Using the calibration results, you can decide whether the overall accuracy is correct for the desired measurement.

Precaution: You must properly calibrate prior to clinical measurements and determine if the accuracy achieved is within the error range required.

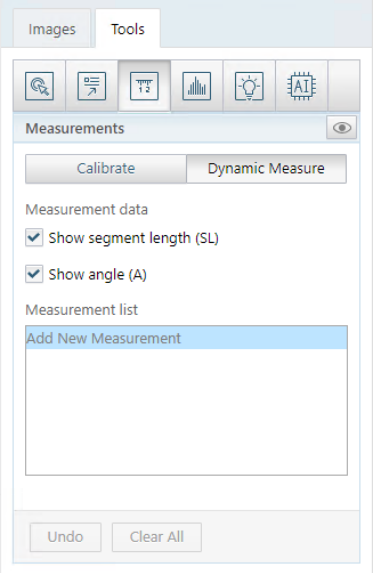
To add measurements, do the following:

a. To calibrate distance measurements using an object of known size in the image, click **Calibrate**. Click the first (starting) point of the known-length object on the image where you want to start measuring, and then drag to another point on the known-length object. Change the length of the **Standard for calibration** as needed to the correct number of millimeters for the known length.

   Perform the above calibration step until you are comfortable that you can measure the calibration object accurately and that the displayed results have the accuracy needed. Now that you have defined the length of the segment, all dynamic measurements will be calculated respective to that calibration.

   Note: For most sensors that integrate directly with Dentrix Imaging Center, you may not need to calibrate images taken with those sensors.

b. Click **Dynamic Measure**.

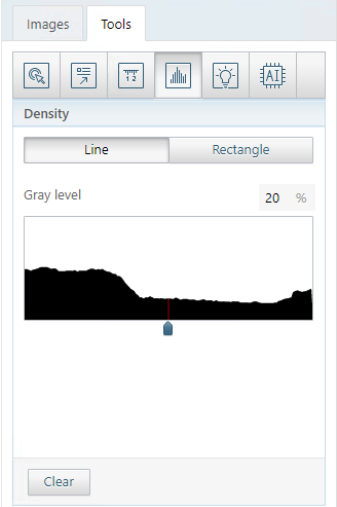


c. Click a point on the image, then another point, and so on until you have created all the necessary lines.

Notes:

- To remove the last measurement that you added to the image, click **Undo**.
- To remove all measurements from the image, click **Clear All**.
- To show the calculated length of each line segment, select **Show segment length** (SL).
- To show the calculated angle where two line segments meet, select **Show angle** (A).
- To switch between showing and hiding the lines and their calculated lengths and angles, select and clear the **Show** check box.
- To switch between showing and hiding annotations and measurements, click the **Annotations/ Measurements** button. The button is available only if an annotation or a measurement has been applied to the image.

Density (Line)



Important: Density measurements are calculated from specified points on the image and are reported from the actual pixel values selected. Image resolution, displayed size, and inherent image quality can all affect the accuracy of the density measurement. However, the factor which has the greatest effect on the overall precision of a density measurement is the accuracy of the selected point or points to be measured.

To get the density (gray level) from one point to another on the image (X-ray images only), do the following:

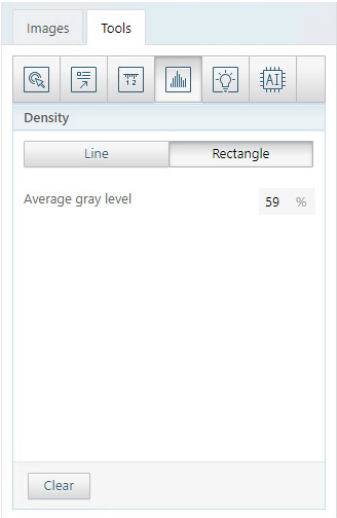
a. Click **Line**.

b. Click a point on the image, then another point to create a line.

   A graph of the gray levels along the specified line appears, and the average **Gray level** is indicated.

Note: To remove the density line, click **Clear**.

Density (Rectangle)

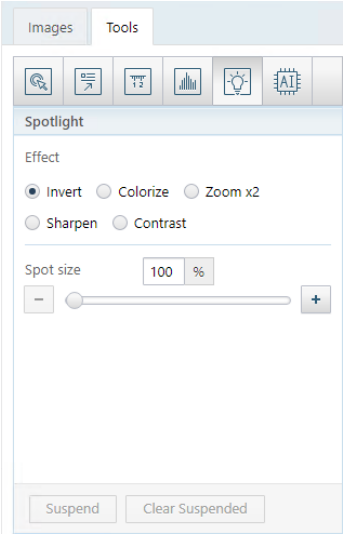


To get the density (gray level) of a rectangular area on the image (X-ray images only), do the following:

a. Click **Rectangle**.

b. Click and drag to create a rectangle.
The **Average gray level** is indicated.

Spotlight

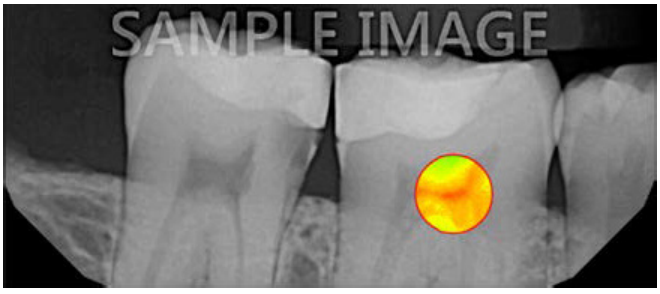


To add spotlights, do the following:

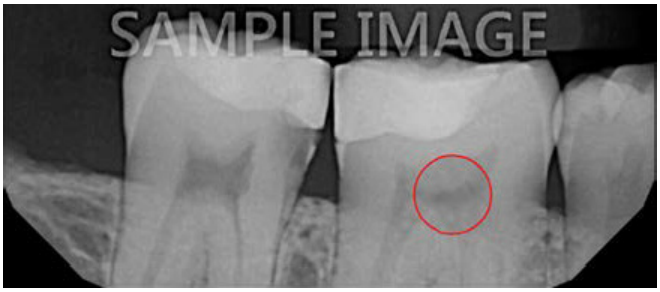
a. Select an **Effect**: **Invert**, **Colorize** (for X-ray images only), **Zoom x2**, **Sharpen**, or **Contrast**.
b. Move the **Spot size** slider to specify the size of the spotlight.
c. Click a specific area of the image to place the spotlight. A spotlight with a red border appears.

Invert

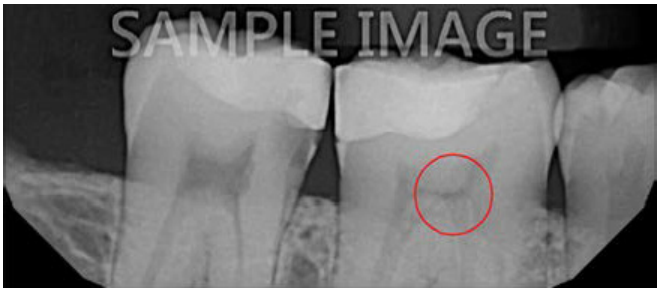
Colorize



Zoom x2



Sharpen

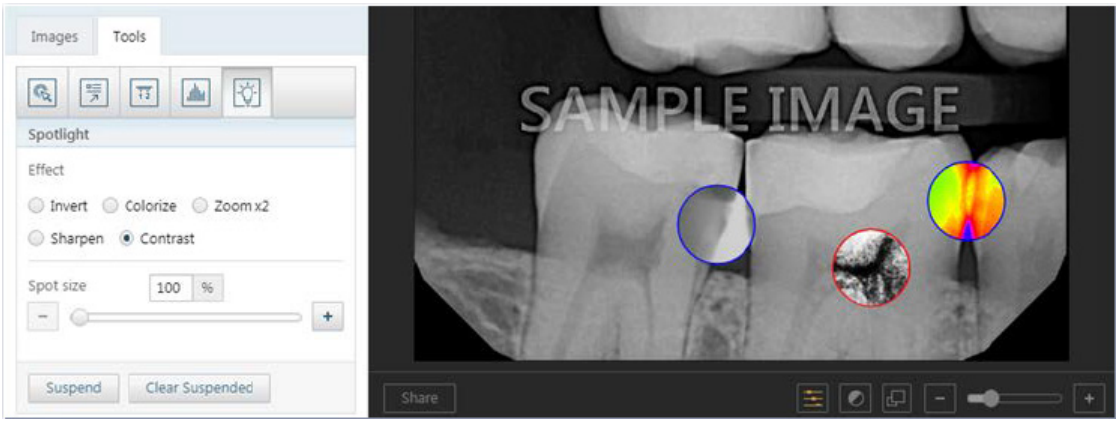


Contrast

d. To move the spotlight, click another area of the image.

e. To suspend the spotlight on the image so that you can add other spotlights, click **Suspend**. The border of the spotlight turns blue.

f. Repeat steps a-e as needed to continue adding spotlights.



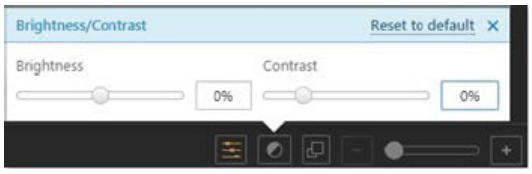
Note: To remove all spotlights, click **Clear Suspended**, or select another processing tool.

Brightness/Contrast

Note: You can perform brightness/contrast adjustments over the entire image area canvas. The zoomed size of the image does not affect the range of the brightness/contrast adjustments you can make.

To adjust the brightness and/or contrast as needed, do the following:

a. Click the **Brightness/Contrast** button.



b. Do any of the following:

- Move the **Brightness** slider to decrease or increase the brightness.
- Move the **Contrast** slider to decrease or increase the contrast.
- To reset the brightness and contrast levels to their default states, click the **Reset to default** link.

Note: If you change the brightness or contrast, the corresponding button becomes orange.

Deleting Images

You can delete a single image or a series of images from a patient's record.

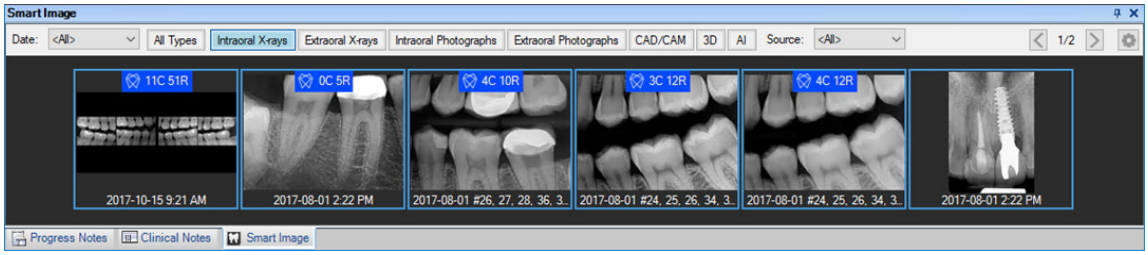
Notes:

- You can delete images only if they are not associated with procedures that are attached to insurance claims.
- The procedures that are associated with the images that you are deleting will also be deleted or voided (if older than 120 days).

To delete images

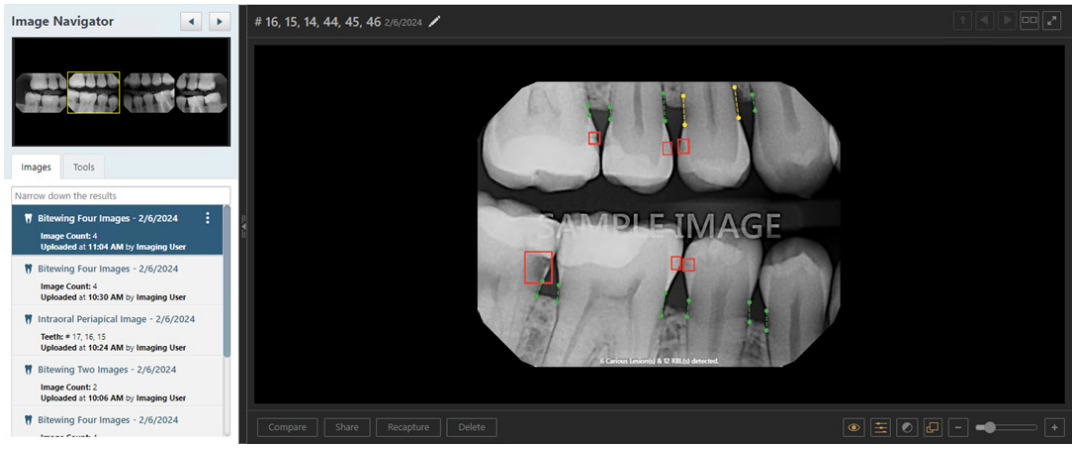
1. Open the Patient Chart and select a patient.

   All images pertaining to the selected patient appear in the **Smart Image** panel.

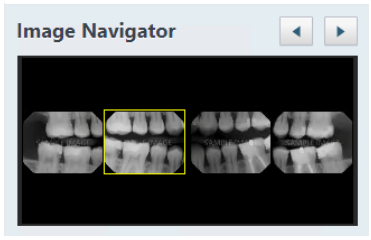


2. Double-click the image that you want to delete.

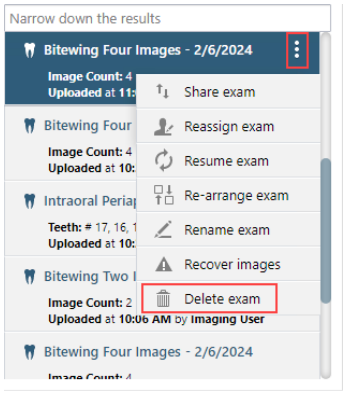
   The **Dentrix Imaging Center** dialog box appears with the **Show Image History** tab selected, and the most recent image or series (such as a full mouth series or bitewings) selected by default on the **Images** tab.



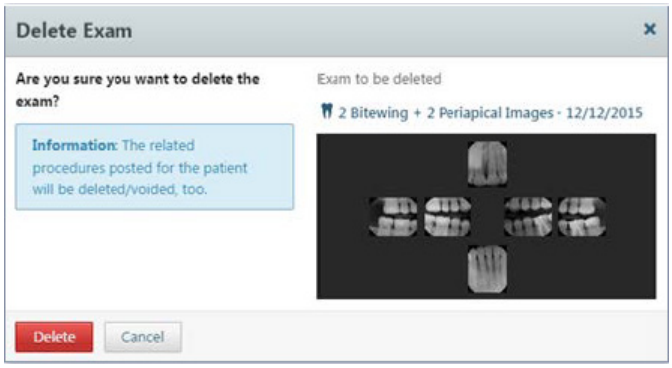
3. Select an image or a series (such as a full mouth series or bitewings).
4. If you have selected a series, and you want to delete a specific image of that series, under **Image Navigator**, click that image.



5. Do one of the following:
   - Delete the entire series or the exam with one image:
     a. On the corresponding options menu, click **Delete exam**.



The **Delete Exam** confirmation message appears.



b. Click **Delete**.

- Delete the selected image within the series:
  a. In the viewing area, click the **Delete** button.

     A confirmation message appears.

  b. Click **Delete**.

Restoring Deleted Images

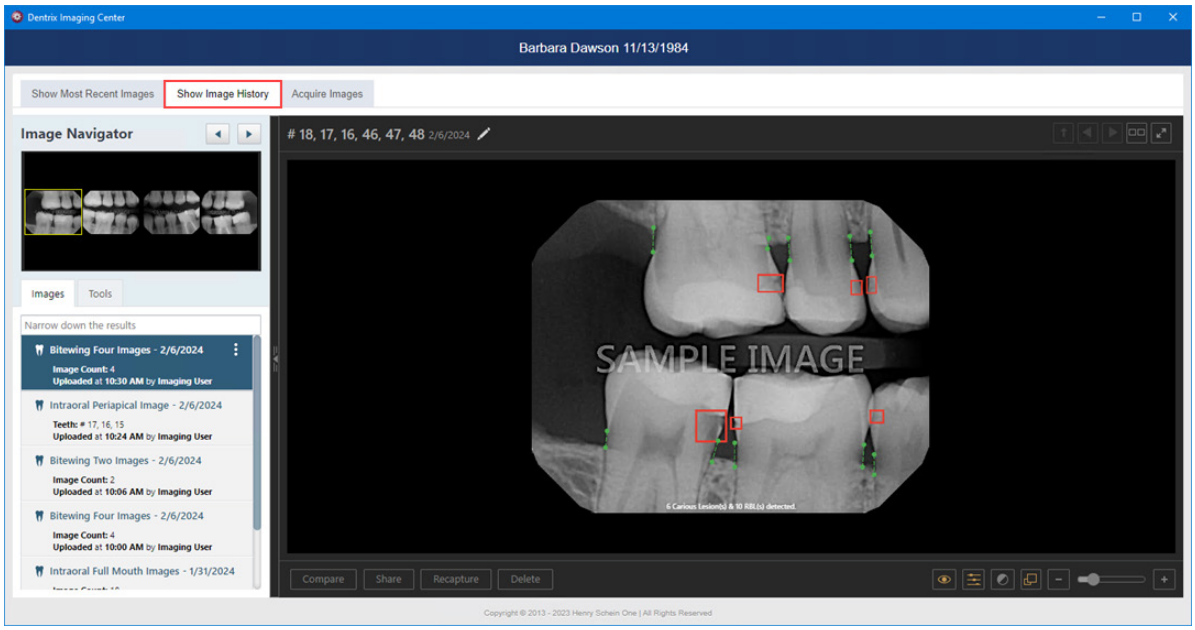
You can restore a single image or a series of images that you previously deleted from a patient's record. You can also restore any deleted images associated with a specific slot in a series.

To restore a deleted image

1. Open the Patient Chart, and select a patient.

   All images pertaining to the selected patient appear in the **Smart Image** panel.
2. In the Smart Image toolbar, click the Launch Dentrix Imaging button.

   The Dentrix Imaging Center opens.

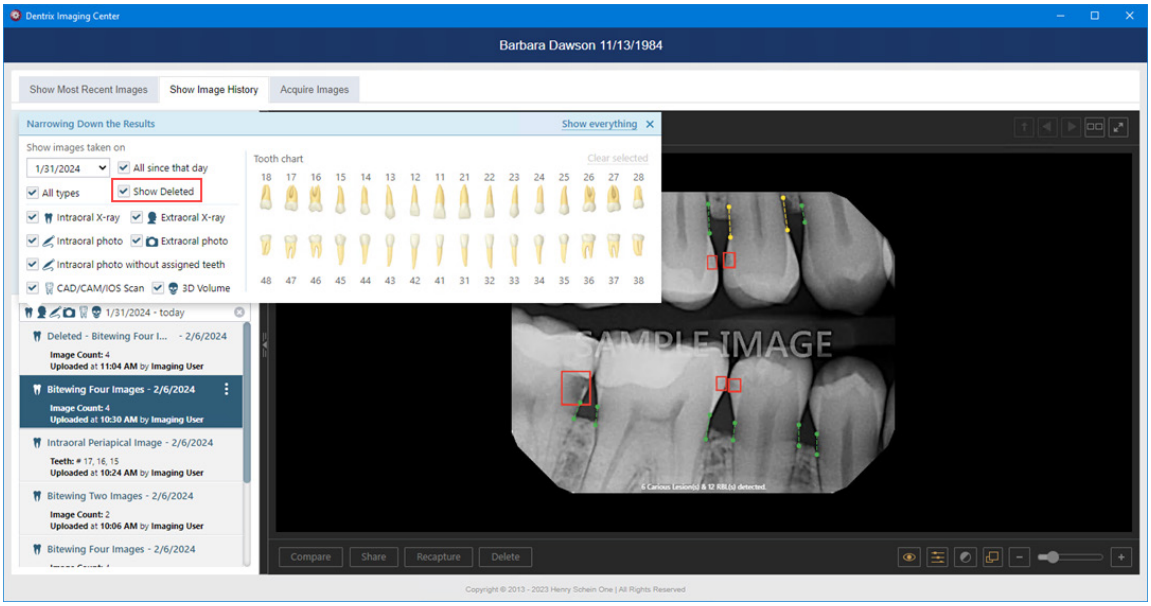


3. Click the **Show Image History** tab.

   The selected patient's imaging page opens to the history view, and the most recent image or series of images is selected by default.

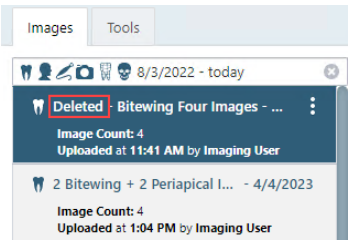
4. To restore an entire series or exam, complete the following:

   a. Click **Narrow down the results**, and then select **Show Deleted**.

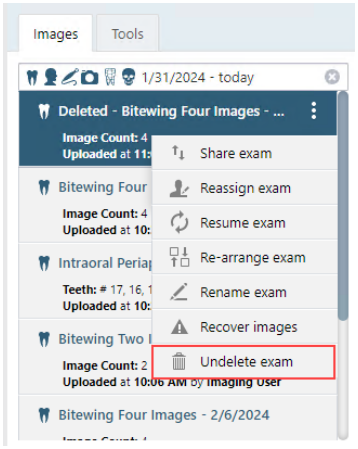


   b. Close the **Narrowing Down the Results** menu.

   In the **Images** list, **Deleted** appears before any series or exam that you have deleted.



c. Select the series or exam that you want to restore, click the options menu, and then click **Undelete exam**.

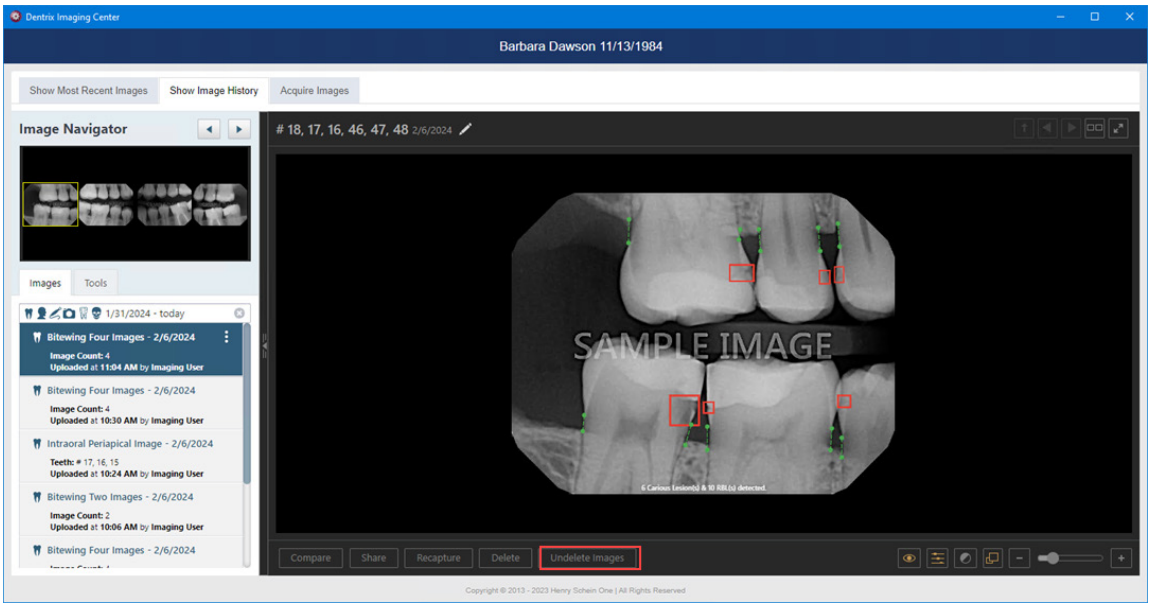


The series or exam is restored to the **Images** list.

5. To restore an image or multiple images within a series, select the desired series, such as a full mouth series or bitewings, and then complete the following:

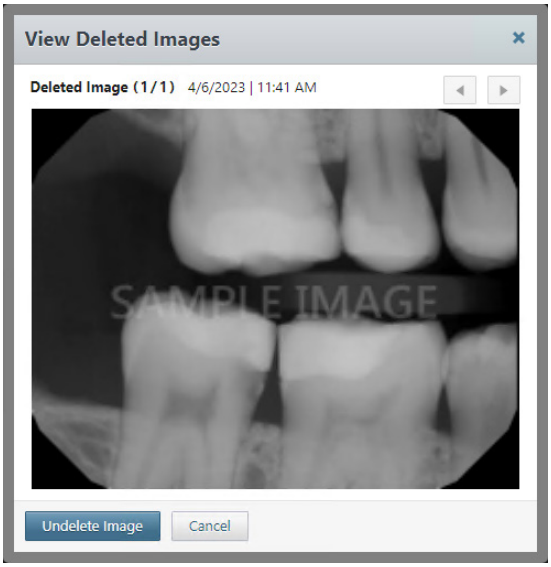
a. Under **Image Navigator**, select an empty box.

If a deleted image is associated with the selected slot, the **Undelete Images** button becomes available.



b. To restore the selected image, click **Undelete Images**.

The **View Deleted Images** dialog box appears.



c. To restore the displayed image, click **Undelete Image**.

Note: If there are multiple deleted images that you want to restore, click the Previous or Next buttons to navigate the images. For each image that you wan to restore, click **Undelete Image**.

Renaming Exams

You can rename an image, a specific image in a series, or an entire series.

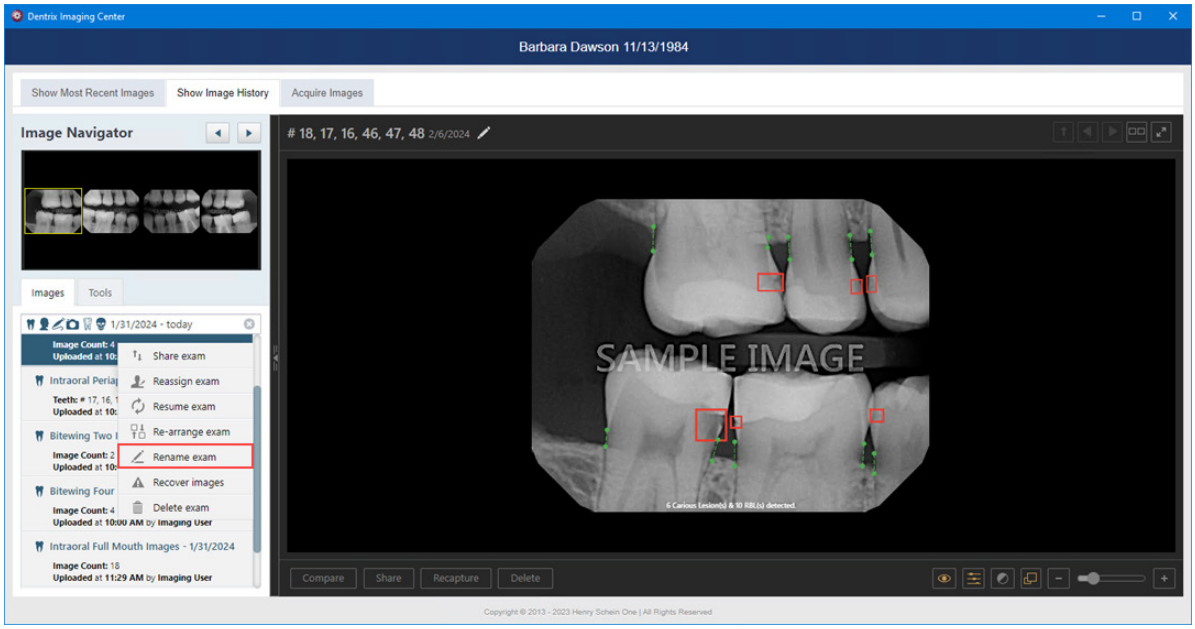
To rename an exam

1. Open the Patient Chart, and select a patient.

   All images pertaining to the selected patient appear in the **Smart Image** panel.

2. Double-click the image that you want to rename.

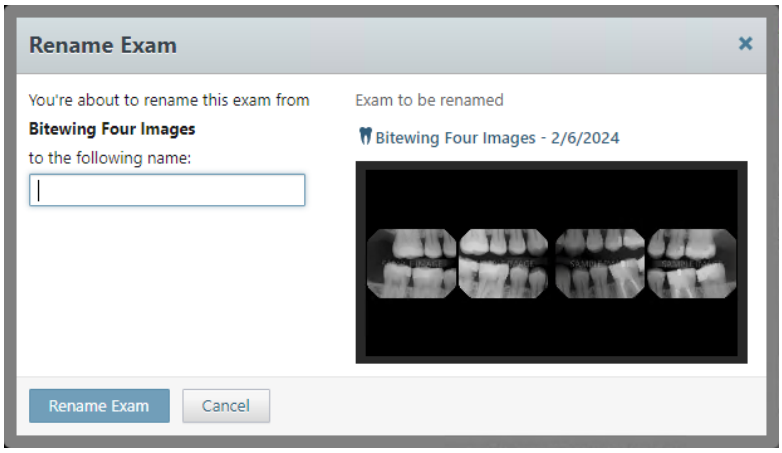
   The **Dentrix Imaging Center** dialog box appears with the **Show Image History** tab selected.



3. Click the **Images** tab.

4. Select an image or a series (such as a full mouth series or bitewings).
5. Click the options menu, and then click **Rename Exam**.

   The **Rename Exam** dialog box appears.



6. Type the exam's new name in the **to the following name** text box.
7. Click **Rename Exam**.

Reassigning Images to a Different Patient

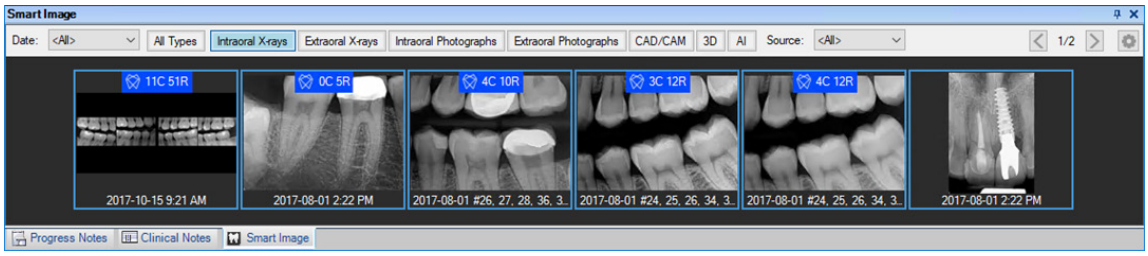
Notes:

- You can move a single image or a series of images from one patient's record to another's. You can move images only if they are not associated with procedures that are attached to insurance claims.
- The procedures that are associated with the images that you are deleting will also be deleted or voided (if older than 120 days).

To reassign an image to a different patient

1. Open the Patient Chart and select a patient.

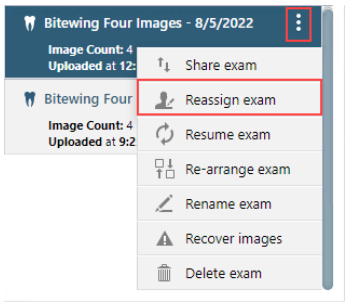
   All images pertaining to the selected patient appear in the **Smart Image** panel.



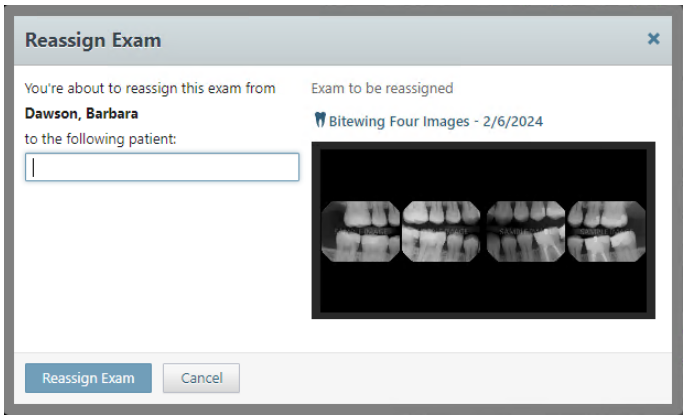
2. Double-click the image that you want to reassign.

   The **Dentrix Imaging Center** dialog box appears with the **Show Image History** tab selected, and the most recent image or series (such as a full mouth series or bitewings) selected by default on the **Images** tab.

3. Select an image or a series (such as a full mouth series or bitewings).
4. On the corresponding options menu, click **Reassign exam**.



The **Reassign Exam** dialog box appears.



5. Use the **to the following patient** search box to search for and select the name of the patient to whom you want to reassign the images.

   Note: You can search by a patient's first and last names. Each time you type a letter in the search text box, the search results become more and more specific.

6. Click **Reassign Exam**.

Sharing Images

You can export and print images or manually attach them to a claim.

Exporting Images

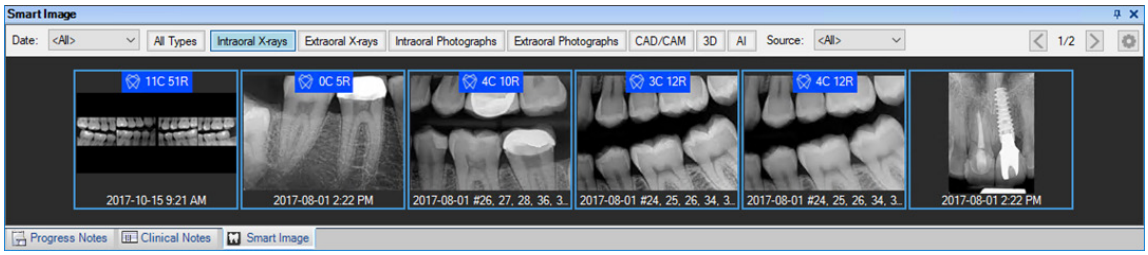
You can export an image, a specific image of a series, or an entire series (such as a full mouth series).

Note: If you are using Dentrix Detect AI, those results will also appear when you export or share images or exams.

To export images

1. Open the Patient Chart and select a patient.

   All images pertaining to the selected patient appear in the **Smart Image** panel.



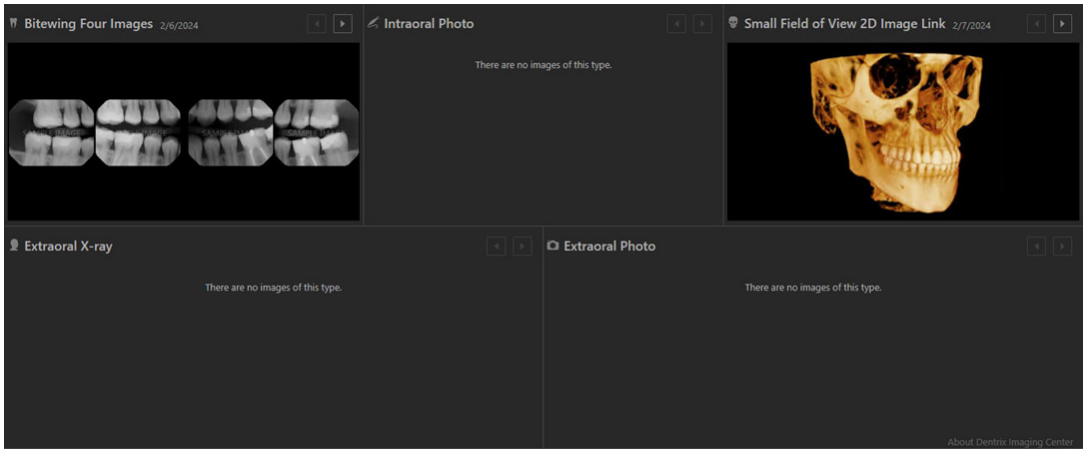
2. Double-click the image that you want to share.

   The **Dentrix Imaging Center** dialog box appears with the **Show Image History** tab selected, and the most recent image or series of images (full-mouth or bitewings) selected by default on the **Images** tab.

3. Do one of the following:

   - View an image or a series in the patient's image history list.
     a. On the **Images** tab, select an image or a series (such as a full mouth series or bitewings).

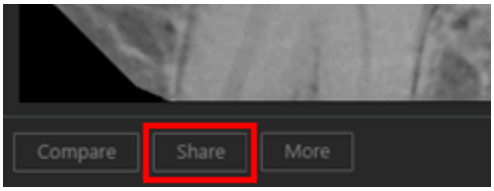
   - View one of the patient's most recent images.
     a. Do one of the following:
        - Click the **Show Most Recent Images** tab, and then double-click the image that you want to view.
        - Click any single image (intraoral X-ray, intraoral photo, extraoral photo, extraoral X-ray, CAD/CAM scan, or 3D volume) or an image within a series (such as a full mouth series or bitewings).



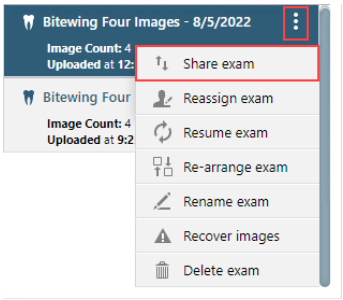
The selected image (or the first of the selected series) appears in the viewing area.

4. If you are viewing a series (such as a full mouth series or bitewings), to view a different image of that series, under **Image Preview**, click an image. Otherwise, skip this step.

5. Do one of the following:
   - Click **Share**.

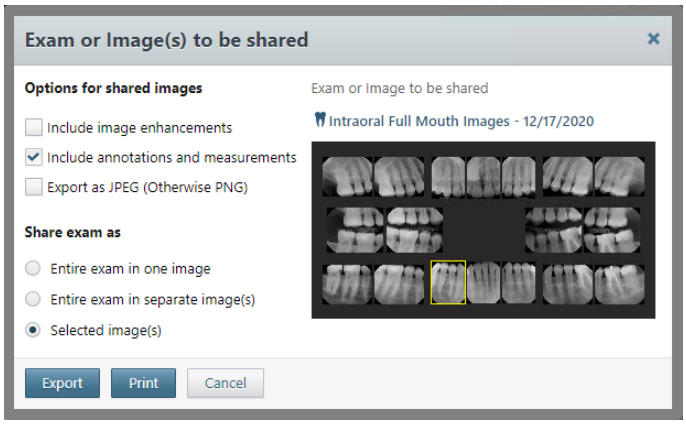


   - From the options menu of the image or series, click **Share exam**.

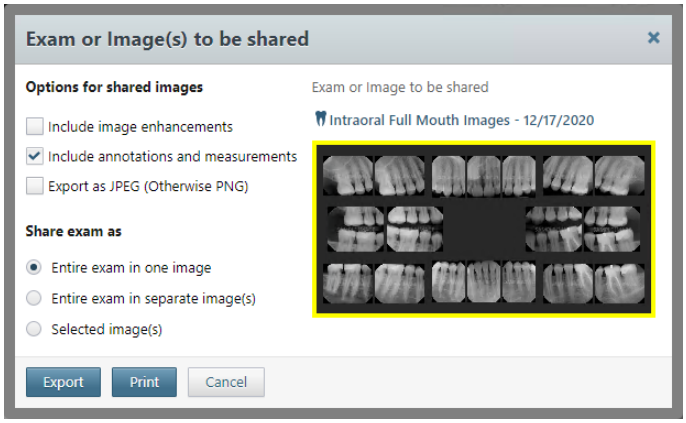


One of the following occurs:

- If the image being viewed is a CAD/CAM scan, the image is downloaded as a .ply file. Ignore steps 5 and 6.
- The **Exam or Image(s) to be shared** dialog box appears.



Note: If you used the Share button, by default, the Selected images(s) option under **Share exam as** is selected, and the image that was being viewed is selected (as indicated by the yellow box around the individual image in the preview area).



Note: If you used the **Share exam** menu option, by default, the **Selected images(s)** option under **Share exam as** is selected, and the series is selected (as indicated by the yellow box around the entire preview area).

6. Set up the following options:
   - **Include image enhancements** – Select this check box to apply an enhancement, which adds a balance of sharpening and contrast levels that affects the overall sharpness and contrast, to any of the images being exported that have enhancement applied to their originals. Any images being exported that do not have enhancement applied to their originals will not be exported

with enhancement. Clear this check box to not enhance any of the images being exported even if enhancement has been applied to their originals.

- **Include annotations and measurements** – Select to include any annotations or measurements that were added to the images being exported. Clear the check box to export the images without the annotations and measurements.
- **Export as JPEG (Otherwise PNG)** – Select to export the selected images as .jpg files. Clear the check box to export the selected images as .png files. If you are exporting multiple images, they will be saved as individual images in one compressed folder.
- **Share exam as** – For a series, do one of the following:
  - **Entire exam in one image** – Select to export the series as one file that contains all the images. A yellow box appears around the entire preview area to indicate that the series is being exported.
  - **Entire exam in separate image(s)** – Select to export each image in the series as an individual file. A yellow box appears around the entire preview area to indicate that the series is being exported.
  - **Selected image(s)** – Select to export only some of the images in the series, each as an individual file, and then click the desired images in the preview area. Yellow boxes appear around the selected images to indicate that those images are being exported. If necessary, you can click a selected image to remove the yellow box unless only one image is selected.

    Note: If the series is selected (the entire preview area has a yellow box around it), and you click an image in the series, the **Selected image(s)** option is selected automatically.

7. Click **Export**.

   The images are downloaded.

Exporting 3D Volumes

You can export a 3D volume by downloading it or sending it to an application.

Notes:

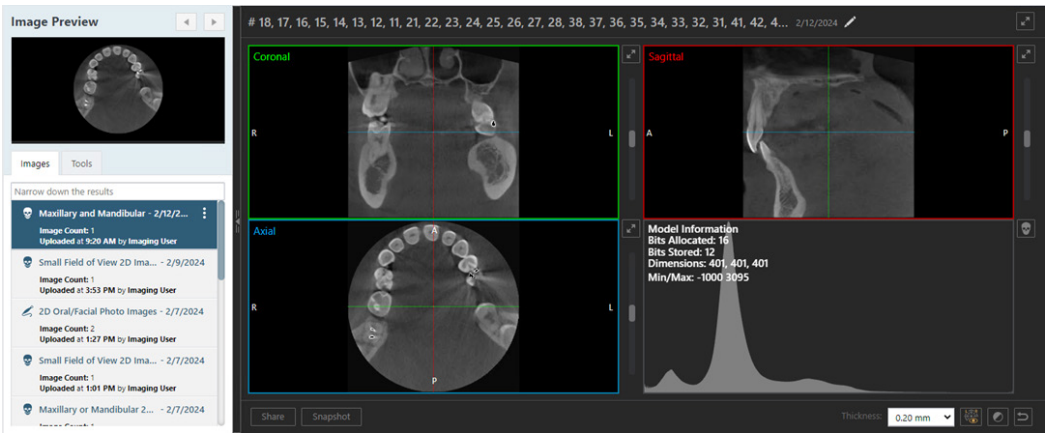
- You can use the Anatomage One-Way Bridge Integration for sharing 3D volumes (exactly like SICAT and BlueSkyBio). When a 3D volume is loaded, the integrations are available for selection in Share. Clicking **Share** bridges to Anatomage and sends the 3D volume.
- You can use Owandy's Quickvision 3D for sharing 3D volumes (exactly like SICAT and BlueSkyBio). When a 3D volume is loaded, the integrations are available for selection in Share. When selected, it bridges to Quickvision 3D and sends the 3D volumes.
- You can use 3DIEMME for sharing 3D volumes within the system, enabling seamless integration with RealGUIDE software for patient data transfer.

To export a 3D volume

1. Open the Patient Chart and select a patient.

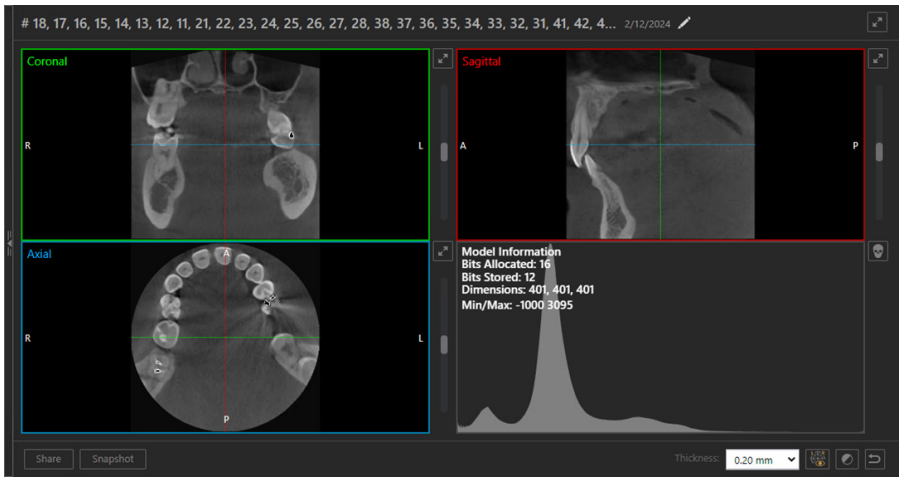
   All images pertaining to the selected patient appear in the **Smart Image** panel.
2. Double-click the image that you want to export.

   The **Dentrix Imaging Center** dialog box appears with the **Show Image History** tab selected, and the most recent image or series of images selected by default on the **Images** tab.
3. Do one of the following:
   - View a 3D volume in the patient's image history list.
     a. Double-click the image that you want to view.
     b. On the **Images** tab, select a 3D volume.



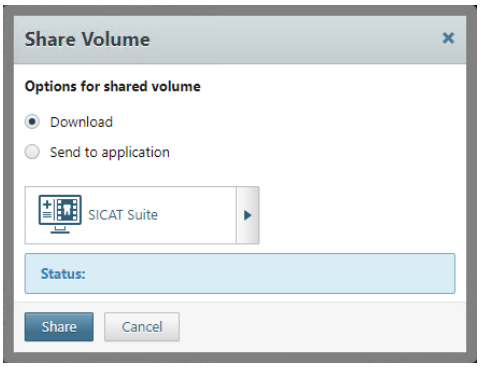
- View one of the patient's most recent 3D volumes.
  a. Click the **Show Most Recent Images** tab, and then double-click the image you want to view.
  b. Click a 3D volume.

  The selected 3D volume appears in the viewing area.



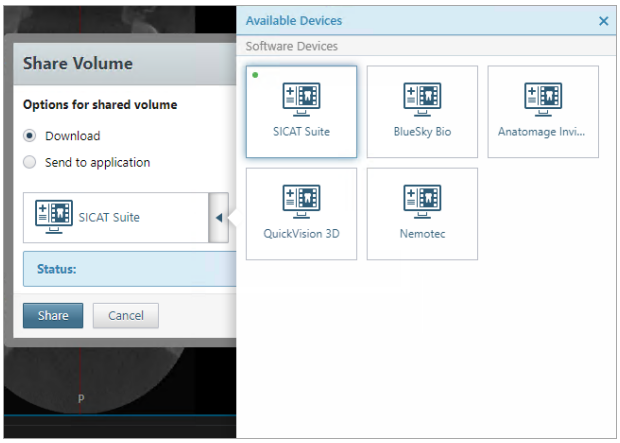
4. Do one of the following:
   - Click **Share**.
   - From the options menu of the volume, click **Share exam**.

   The **Share Volume** dialog box appears.



5. Do one of the following:
   - To download the volume, select **Download**.

- To send the volume to a third-party application, select **Send to application**, and then select the correct application in the **Available Devices** menu if it isn't already selected.



Note: Currently, the only supported applications are SICAT Suite and BlueSky Bio Software.

6. Click **Share**.

   The volume is downloaded or sent to the selected application.

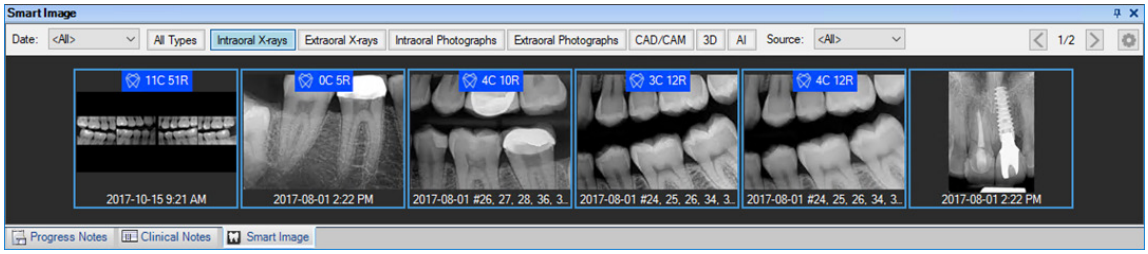
Printing Images

You can print an image, a specific image of a series, or an entire series (such as a full mouth series).

To print images

1. Open the Patient Chart and select a patient.

   All images pertaining to the selected patient appear in the **Smart Image** panel.



2. Double-click the image that you want to print.

   The **Dentrix Imaging Center** dialog box appears with the **Show Image History** tab selected, and the most recent image or series of images (full-mouth or bitewings) selected by default on the **Images** tab.

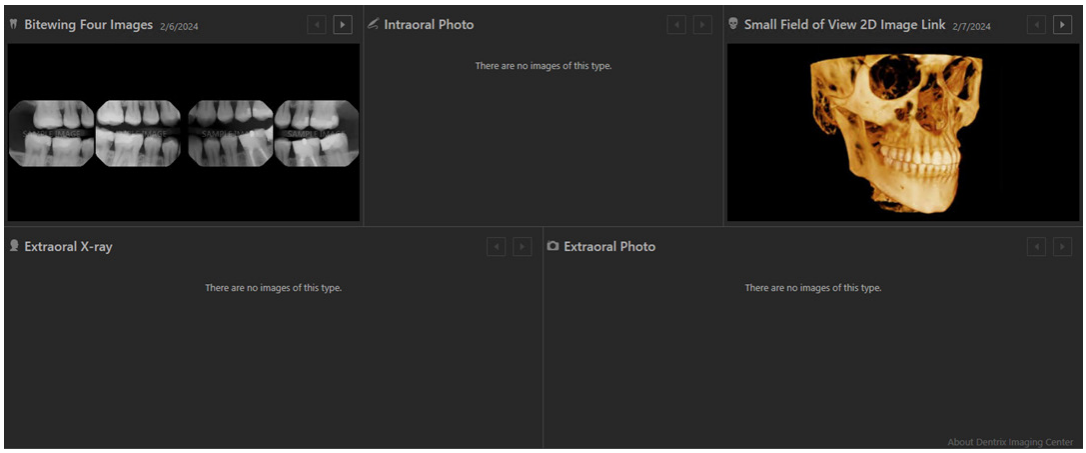
3. Do one of the following:

   - View an image or a series in the patient's image history list.
     a. Double-click the image that you want to print.

        The **Dentrix Imaging Center** dialog box appears.

     b. On the **Images** tab, select an image or a series (such as a full mouth series or bitewings).

- View one of the patient's most recent images.
  a. Do one of the following:
     - Click the **Show Most Recent Images** tab, and then double-click the image that you want to view.
     - Click any single image (intraoral X-ray, intraoral photo, extraoral photo, extraoral X-ray, CAD/CAM scan, or 3D volume) or an image within a series (such as a full mouth series or bitewings).

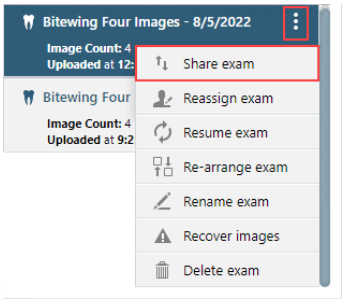


The selected image (or the first of the selected series) appears in the viewing area.

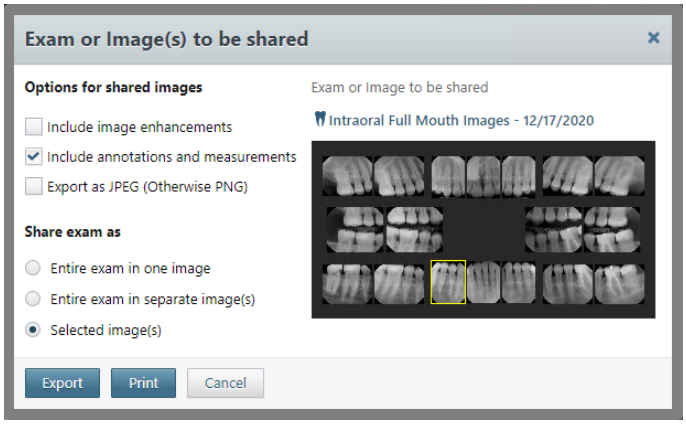
4. If you are viewing a series (such as a full mouth series or bitewings), to view a different image of that series, under **Image Preview**, click an image. Otherwise, skip this step.

5. Do one of the following:
   - Click **Share**.

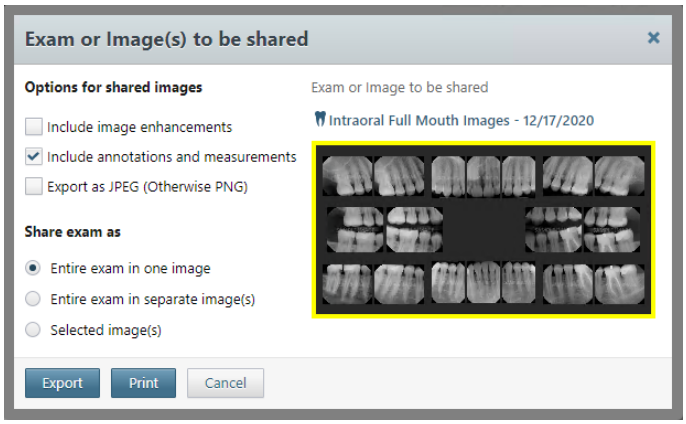
   - From the options menu of the image or series, click **Share exam**.



The **Exam or Image(s) to be shared** dialog box appears.



Note: If you used the **Share** button, by default, the **Selected image(s)** option under **Share exam as** is selected, and the image that was being viewed is selected (as indicated by the yellow box around the individual image in the preview area.)



Note: If you used the **Share exam** menu option, by default, the **Selected image(s)** option under **Share exam as** is selected, and the series is selected (as indicated by the yellow box around the preview area.)

6. Set up the following options:
   - **Include image enhancements** – Select to apply an enhancement, which adds a balance of sharpening and contrast levels that affects the overall sharpness and contrast, to any of the images being exported that have enhancement applied to their originals. Any images being exported that do not have enhancement applied to their originals will not be exported with enhancement. Clear this check box to not enhance any of the images being exported even if enhancement has been applied to their originals.
   - **Include annotations and measurements** – Select to include any annotations or measurements that were added to the images being exported. Clear this check box to export the images without the annotations and measurements.
   - **Export as JPEG (Otherwise PNG)** – Select to export the selected images as .jpg files. Clear this check box to export the selected images as .png files. If you are exporting multiple images, they will be saved as individual images in one compressed folder.
   - **Share exam as** – For a series, do one of the following:
     - **Entire exam in one image** – Select to export the series as one file that contains all the images. A yellow box appears around the entire preview area to indicate that the series is being exported.
     - **Entire exam in separate image(s)** – Select to export each image in the series as an individual file. A yellow box appears around the entire preview area to indicate that the series is being exported.
     - **Selected image(s)** – Select to export only some of the images in the series, each as an individual file, select the option, and then click the desired images in the preview area. Yellow boxes appear around the selected images to indicate that those images are being exported. If necessary, you can click a selected image to remove the yellow box unless only one image is selected.

       Note: If the series is selected (the entire preview area has a yellow box around it), and you click an image in the series, the **Selected image(s)** option is selected automatically.

7. Click **Print**.

   A .pdf file of the images is created for you to print.

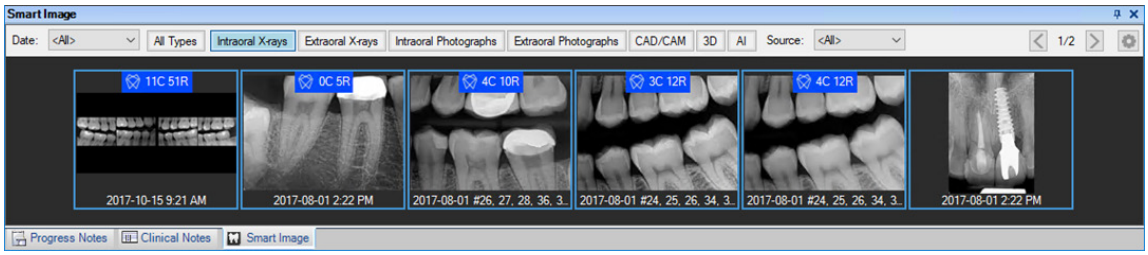
Attaching Images to Claims Manually

You can manually attach images to a claim using Dentrix Imaging Center.

To attach images to a claim manually

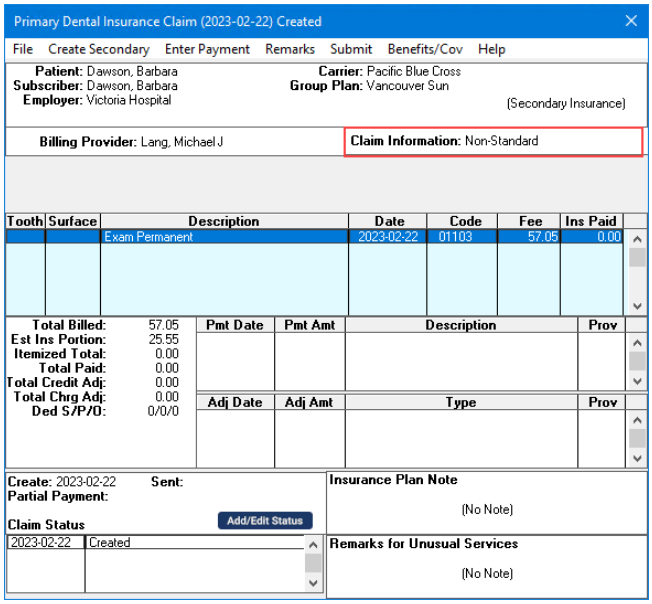
1. Open the Ledger and select a patient.

   All images pertaining to the selected patient appear in the **Smart Image** panel.



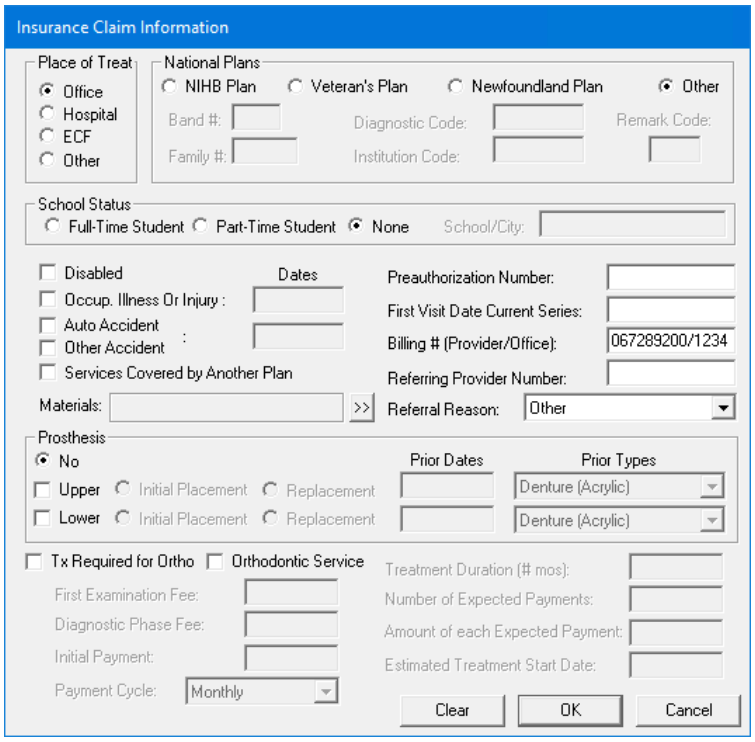
2. In the Transaction Log, double-click the claim you want to attach an image to.

   The Primary Dental Insurance Claim window appears.



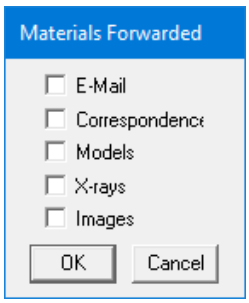
3. Double-click **Claim Information**.

   The **Insurance Claim Information** dialog box appears.



4. Click the **Materials** search icon.

   The **Materials Forwarded** dialog box appears.



5. Select the materials you want to include with the claim, and then click **OK**.
6. To close the **Insurance Claim Information** dialog box, click **OK**.

Managing Custom Imaging Procedures

You can create, edit, and delete custom imaging procedures.

Creating Custom Imaging Procedures

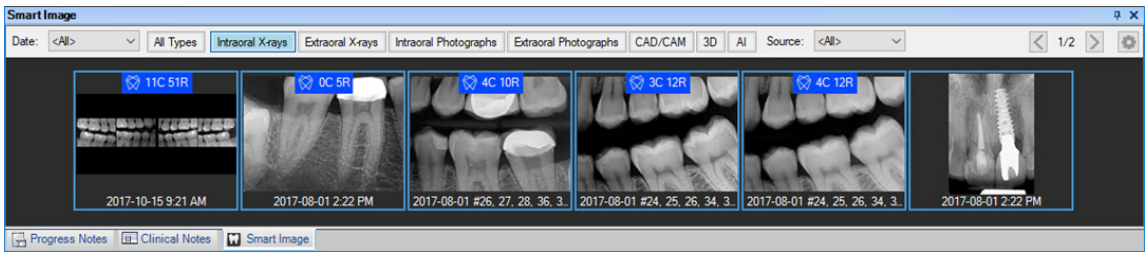
Dentrix Imaging Center comes with several default imaging procedures. However, you can create a custom imaging procedure. The imaging procedure will be available to every user who has rights to acquire images.

Note: Custom and favorite imaging procedures are location specific.

To create a custom imaging procedure

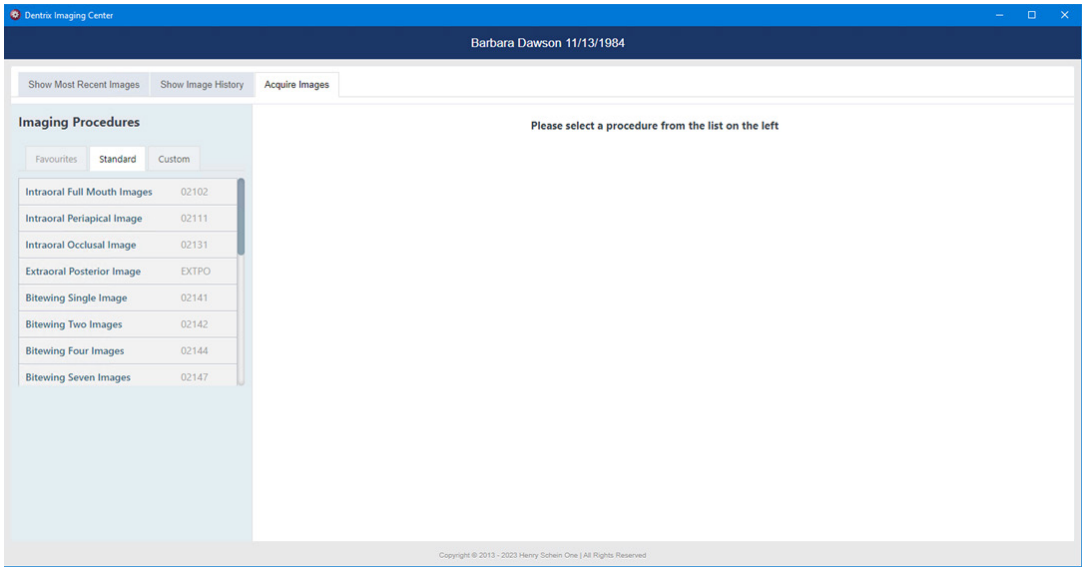
1. Open the Patient Chart and select a patient.

All images pertaining to the selected patient appear in the **Smart Image** panel.



2. Double-click an image.

   The **Dentrix Imaging Center** dialog box appears.

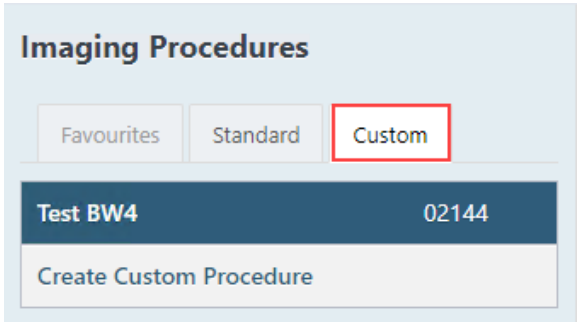


3. Click the **Acquire Images** tab.

   The options for acquiring images become available.

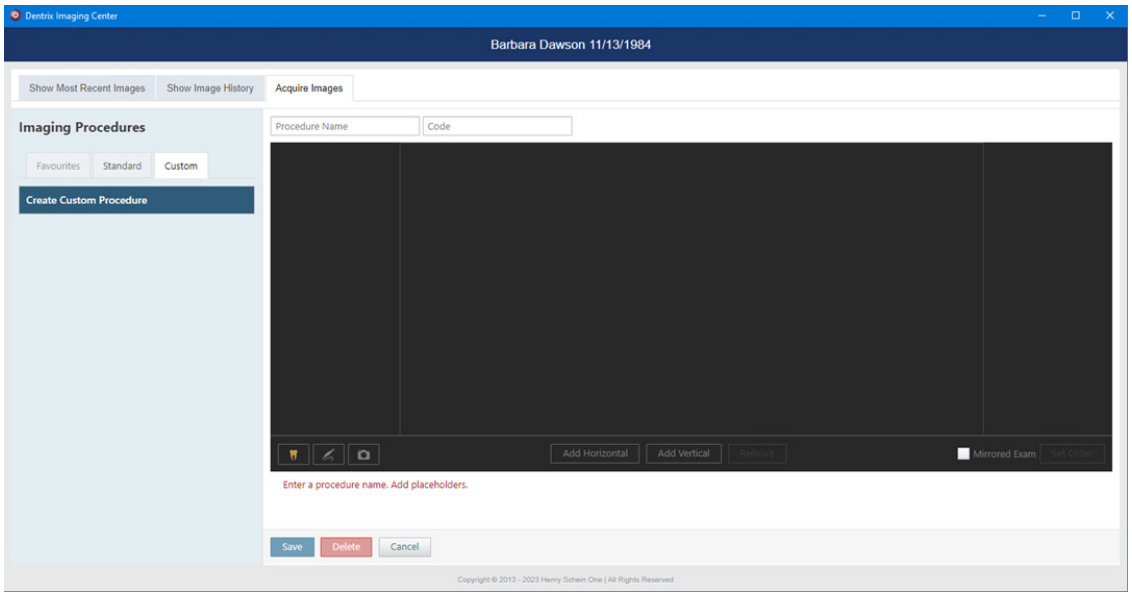
4. Under **Imaging Procedures**, click the **Custom** tab.

   Any existing custom imaging procedures are listed. Also, at the bottom of the list, there is an option for creating an imaging procedure.



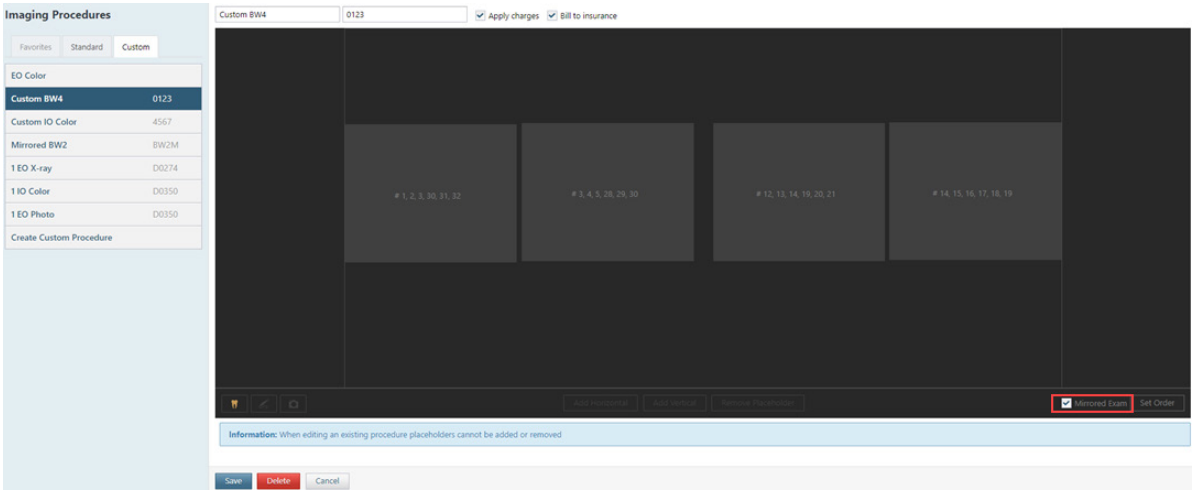
5. Click **Create Custom Procedure**.

   The options to set up the imaging procedure become available.



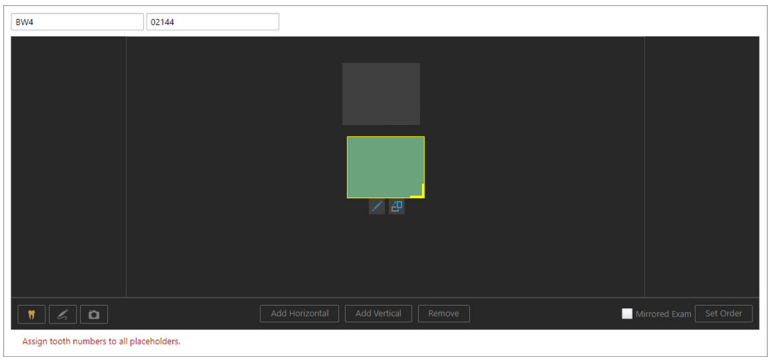
Notes:

- Mirrored Exam view or Military View – Usually, X-rays are oriented as if you were looking at a patient from the front (right side to left side). In the Mirrored Exam view, X-rays are oriented as if you are looking at the patient from behind (left side to right side). To achieve this, templates must be mirrored on the x-axis and images must also be mirrored.
- A check box to the left of the **Set Order** button indicates whether a custom template is mirrored. This check box is only available for intraoral X-ray and camera custom templates.



6. In the **Procedure Name** box, enter a name of up to eleven characters for the imaging procedure.
7. In the **Code** box, enter a valid procedure code or a multi-code.

   The specified code will be posted to a patient's record when this imaging procedure is used to acquire images. However, if the code is invalid, an error message will appear during acquisition, and the code will not be posted.
8. Add image placeholders to the template as needed (the order you add them in determines the default acquisition order):
   a. Click **Add Horizontal** or **Add Vertical**.
   b. Drag the placeholder to the desired spot on the template.



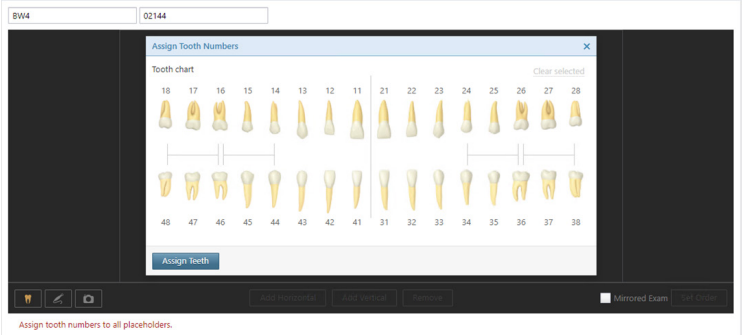
c. If needed, click the **Rotate** button to switch the orientation of the placeholder.

d. Click the **Edit** button to assign tooth numbers to the placeholder.

e. Repeat steps a-d as needed to add other placeholders.

Note: To remove a placeholder, with that placeholder selected, click **Remove Placeholder**.

9. To view or change the default acquisition order, click **Set Order**.
Numbers appear on the placeholders to indicate the order.



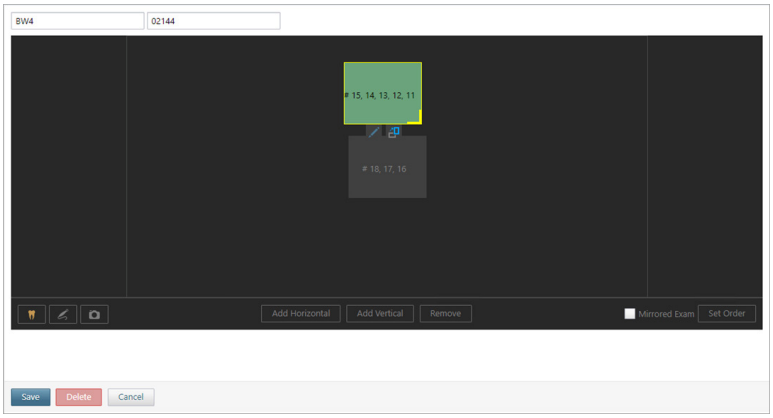
To change the order, do the following:

a. Click **Reset** to remove the order number from every placeholder.

b. Click each placeholder in the order that you want to acquire the images.

Note: To undo order assignments, click **Undo**.

c. When you have assigned an order to every placeholder, click **Finish**.
The imaging procedure is ready to be saved.



10. Click **Save**.

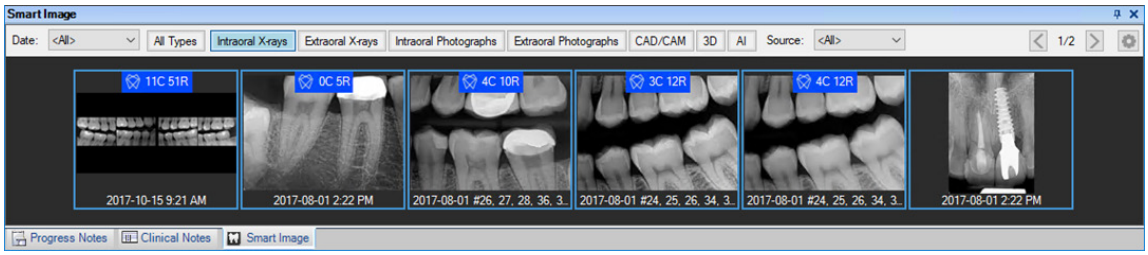
Editing Custom Imaging Procedures

You can edit any custom imaging procedure. Any changes to a custom imaging procedure do not affect images that have already been taken using that imaging procedure.

To edit a custom imaging procedure

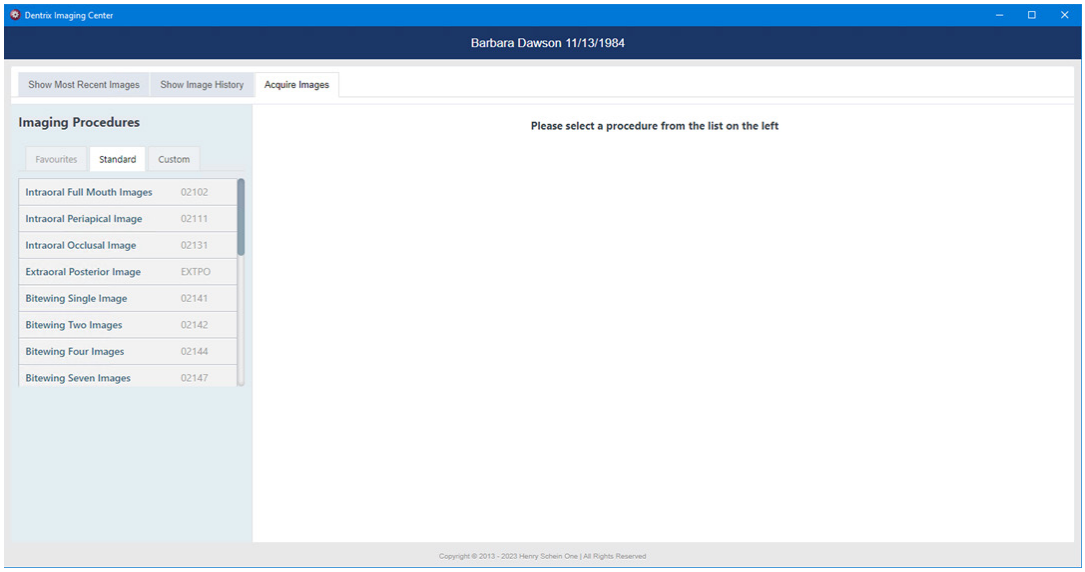
1. Open the Patient Chart and select a patient.

   All images pertaining to the selected patient appear in the **Smart Image** panel.



2. Double-click an image.

   The **Dentrix Imaging Center** dialog box appears.

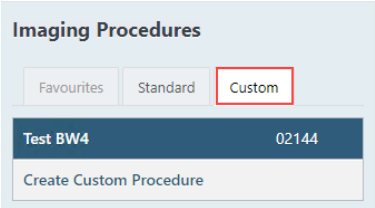


3. Click the **Acquire Images** tab.

   The options for acquiring images become available.

4. Under **Imaging Procedures**, click the **Custom** tab.

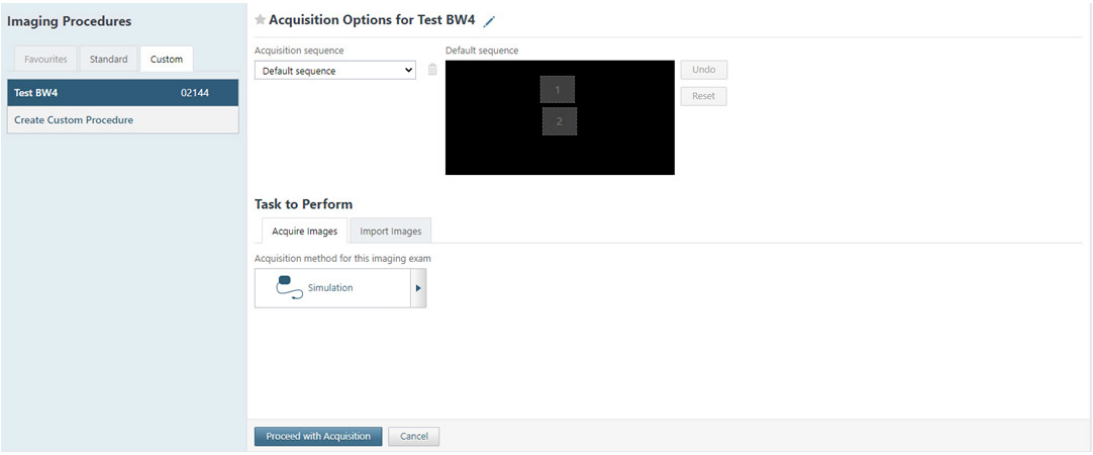
   Any existing custom imaging procedures are listed.



Note: Custom and favorite imaging procedures are location specific.

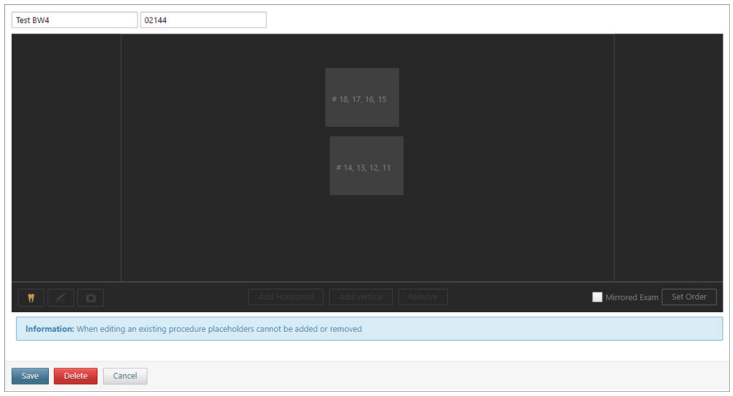
5. Select an imaging procedure.

   The options for the selected procedure become available.



6. Click the **Edit** button next to **Acquisition Options for [Procedure Name]**.

   The options to edit the imaging procedure become available.



7. Change any of the following options as needed:
   - **Procedure Name** – A name (up to eleven characters) for the imaging procedure.
   - **Code** – A valid procedure code or a multi-code. The specified code posts to a patient's record when this imaging procedure is used to acquire images. However, if the code is invalid, an error message appears during acquisition, and the code is not posted.
8. Edit the image placeholders in the template as needed:
   a. To move a placeholder, drag it to a different spot.

b. To switch the orientation of the selected placeholder, click the **Rotate** button.

c. To assign different tooth numbers to the selected placeholder, click the **Edit** button.

d. Repeat steps a - c as needed to edit other placeholders.

Note: You cannot add or remove placeholders.

9. To view or change the default acquisition order, click **Set Order**.

   Numbers appear on the placeholders to indicate the order.

   To change the order, do the following:

   a. Click **Reset** to remove the order number from every placeholder.

   b. Click each placeholder in the order that you want to acquire the images.

      Note: To undo order assignments, click **Undo**.

   c. When you have assigned an order to every placeholder, click **Finish**.

10. Click **Save**.

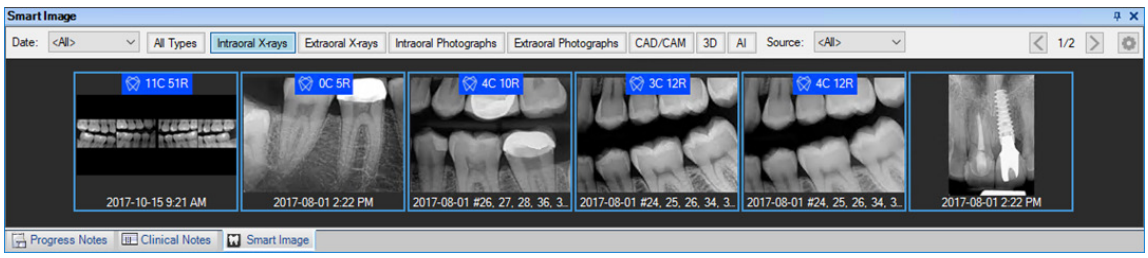
Deleting Custom Imaging Procedures

You can delete any custom imaging procedure. Deleting a custom imaging procedure does not affect images that you have already taken using that imaging procedure.

To delete a custom imaging procedure

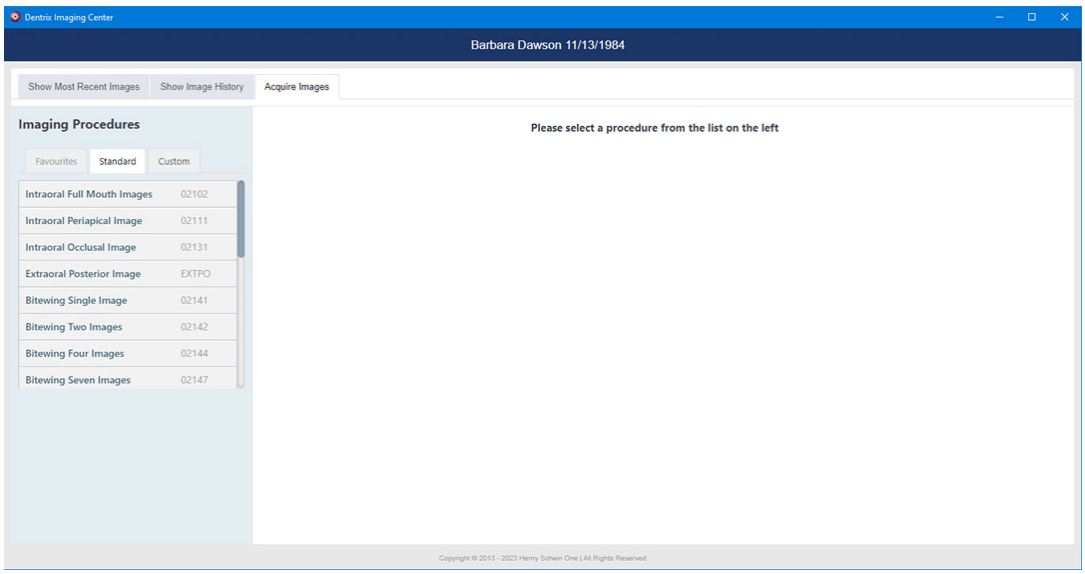
1. Open the Patient Chart and select a patient.

   All images pertaining to the selected patient appear in the **Smart Image** panel.

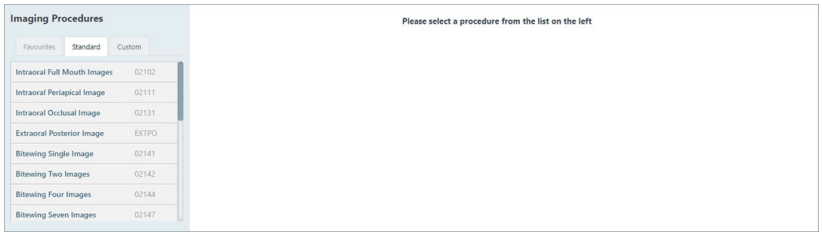


2. Double-click an image.

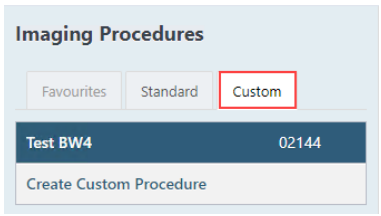
The **Dentrix Imaging Center** dialog box appears.



3. Click the **Acquire Images** tab.
   The options for acquiring images become available.

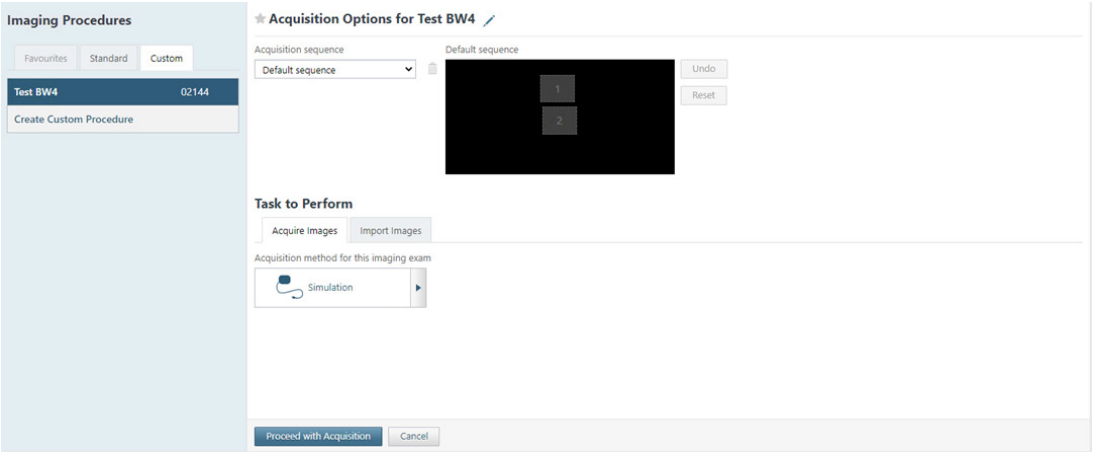


4. Under **Imaging Procedures**, click the **Custom** tab.
   Any existing custom imaging procedures are listed.



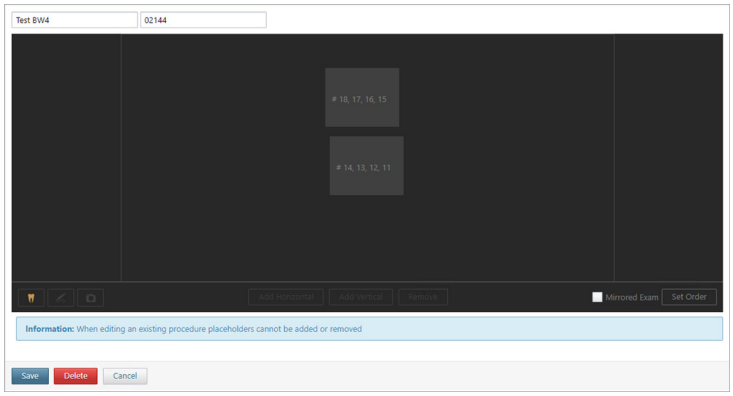
Note: Custom and favorite imaging procedures are location specific.

5. Select an imaging procedure.
   The options for the selected procedure become available.



6. Click the **Edit** button next to **Acquisition Options for [Procedure Name]**.

   The options to edit the imaging procedure become available.



7. Click **Delete**.

   A confirmation message appears.

8. Click **Yes**.

Managing Favorite Imaging Procedures

You can add or remove selected imaging procedures to the **Favorites** list.

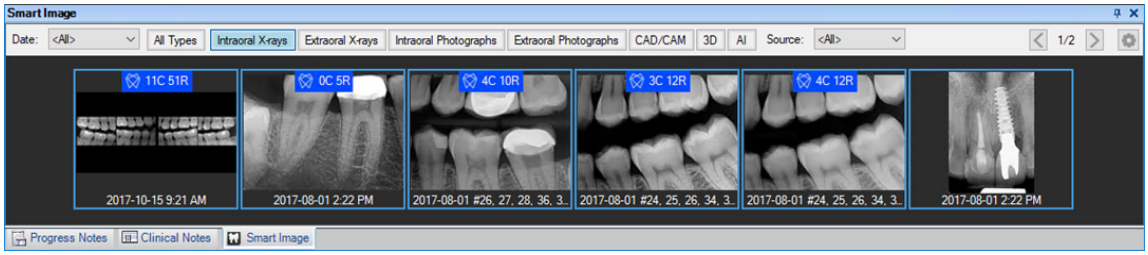
Adding Imaging Procedures to the Favorites List

You can have an imaging procedure appear as a favorite in Dentrix Imaging Center when you are acquiring images so that you have quick and easy access to that procedure.

To add an imaging procedure to the Favorites list

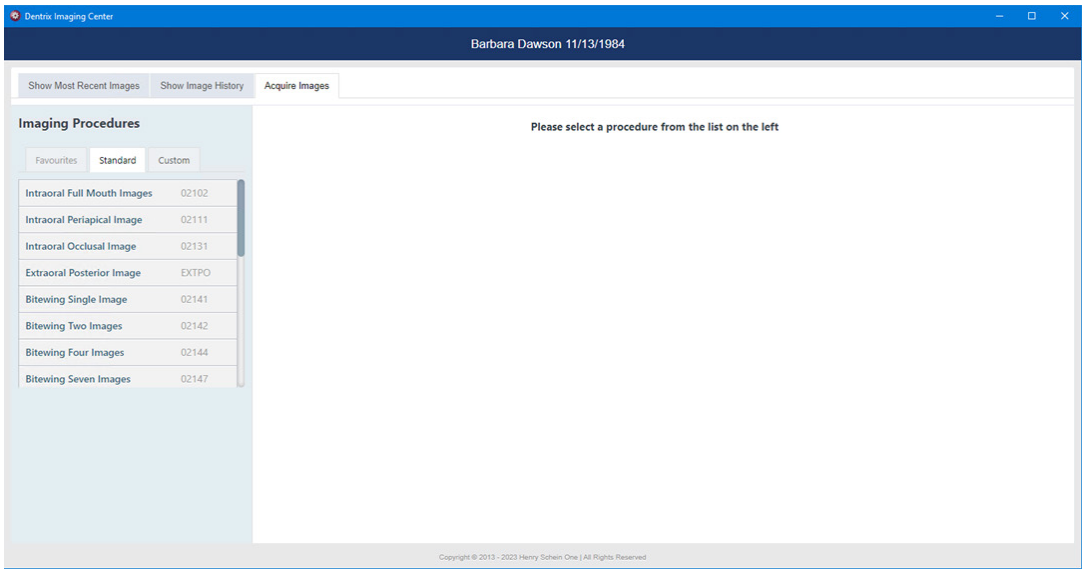
1. Open the Patient Chart and select a patient.

   All images pertaining to the selected patient appear in the **Smart Image** panel.



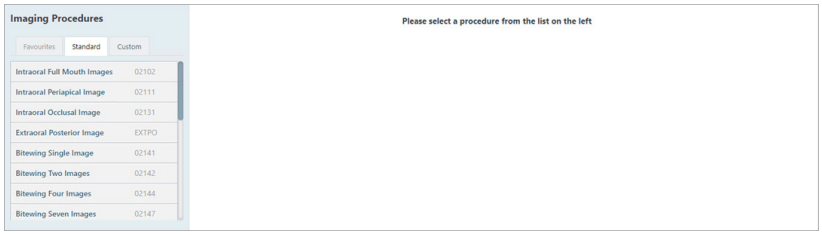
2. Double-click an image.

   The **Dentrix Imaging Center** dialog box appears.



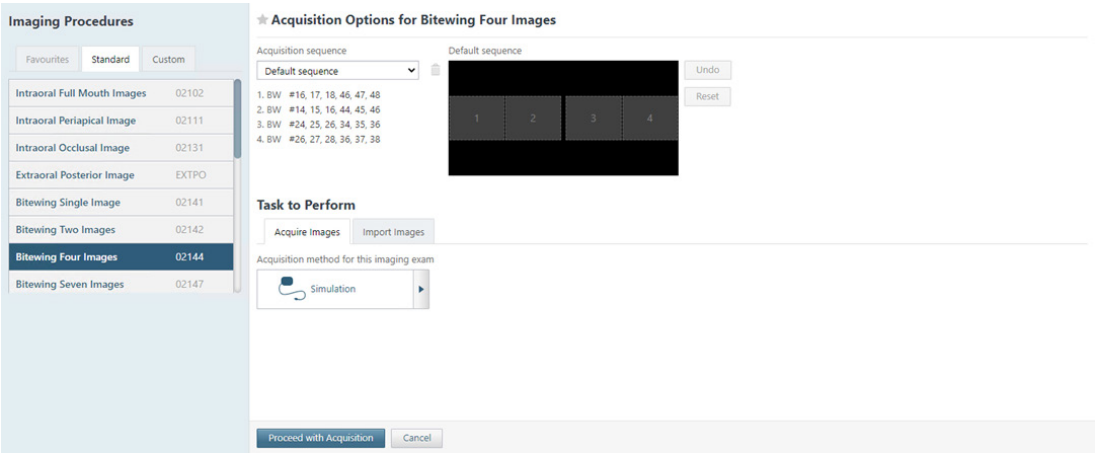
3. Click the **Acquire Images** tab.

   The options for acquiring images become available.



4. Under **Imaging Procedures**, on either the **Standard** tab or the **Custom** tab, select the imaging procedure that you want to make a favorite.

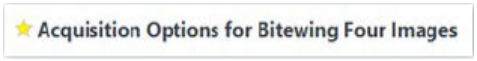
   The options for the selected procedure become available.



Note: A favorite imaging procedure has a yellow star next to **Acquisition Options for [Procedure Name]**. A non-favorite has a gray star.

5. Click the gray star next to **Acquisition Options for [Procedure Name]**.

   The star becomes yellow, indicating that the imaging procedure is now a favorite.



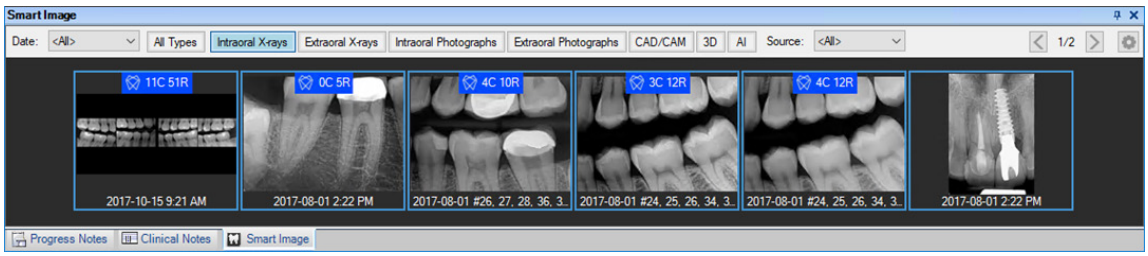
Removing Imaging Procedures from the Favorites List

You can have an imaging procedure appear as a favorite in Dentrix Imaging Center when you are acquiring images so that you have quick and easy access to that procedure. If you no longer want an imaging procedure to be a favorite, you can make it a non-favorite.

To remove an imaging procedure from the Favorites list

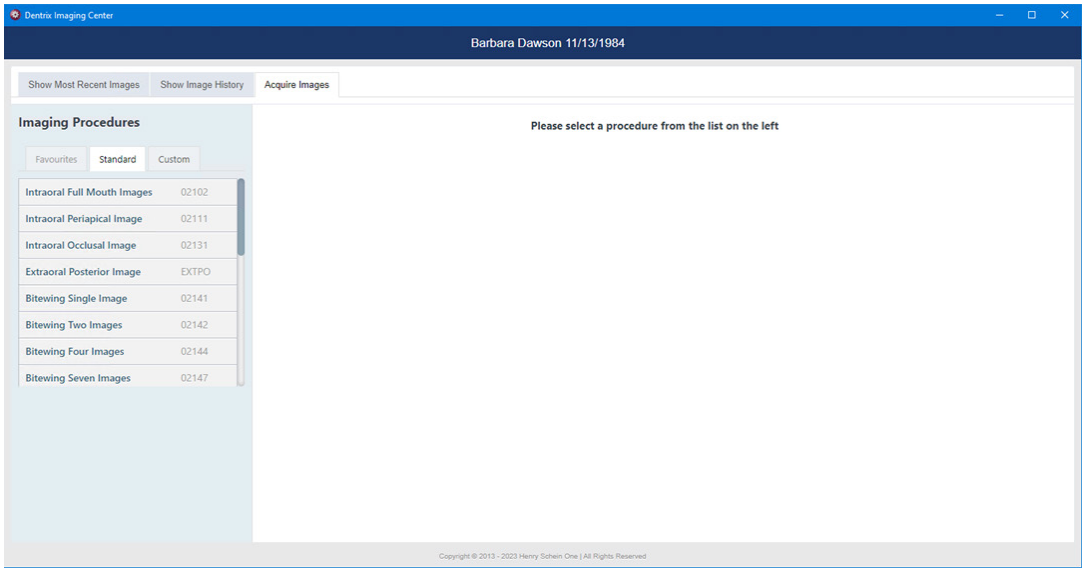
1. Open the Patient Chart and select a patient.

   All images pertaining to the selected patient appear in the **Smart Image** panel.



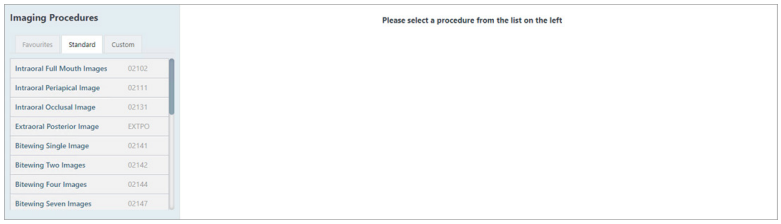
2. Double-click an image.

   The **Dentrix Imaging Center** dialog box appears.



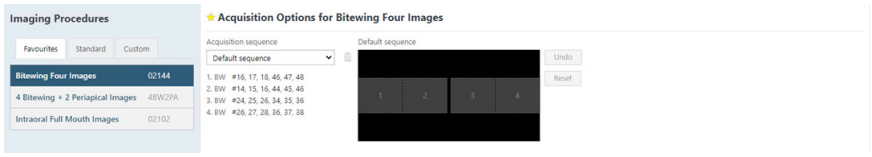
3. Click the **Acquire Images** tab.

   The options for acquiring images become available.



4. Under **Imaging Procedures**, click the **Favorites** tab, the **Standard** tab, or the **Custom** tab, and then select the imaging procedure that you want to make a non-favorite.

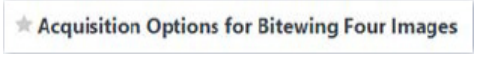
   The options for the selected procedure become available.



Note: A favorite imaging procedure has a yellow star next to **Acquisition Options for [Procedure Name]**. A non-favorite has a gray star.

5. Click the yellow star next to **Acquisition Options for [Procedure Name]**.

   The star becomes gray (you see this change only on the **Standard** or **Custom** tab), indicating that the imaging procedure is now a non-favorite. The procedure no longer appears in the **Favorites** list.



Supported Acquisition Devices

Dentrix Imaging Center supports the following acquisition devices.

Intraoral X-ray Acquisition Devices

- Acteon Sopro SOPIX (supported directly or via a TWAIN driver)
- Apteryx Tuxedo sensor (supported using e2v as the acquisition device)

  Note: Tuxedo sensors that were manufactured prior to 2019 are Hamamatsu devices (LED Dental Tuxedo sensors), which are supported using Hamamatsu as the acquisition device. Contact LED Dental to verify if your Tuxedo sensor is a Hamamatsu device or an e2v device.

- Brassler GEM sensor
- CARINA sensor
- DentalSensors.com Apex
- Dentimax Dream sensor (supported using e2v as the acquisition device)
- Dentsply Sirona XIOS XG
- Dentsply Sirona XIOS AE and Schick AE
- DEXIS Platinum
- DEXIS Titaninum
- Duo sensor
- EVA Select sensor (supported using e2v as the acquisition device)
- FTG DC-Air/CEFLA
- GEM sensor
- Gendex/KaVo IO (supported using the GxPicture acquisition device)
- Gendex GXS-700
- Gendex Visualix eHD (only compatible with Windows 7)

  Important: This device is not officially supported because it is only compatible with an unsupported operating system. However, this device may function with Dentrix Imaging Center on a computer running Windows 7.

- Gendex Visualix GX-S (only compatible with Windows XP)

  Important: This device is not officially supported because it is only compatible with an unsupported operating system. However, this device may function with Dentrix Imaging Center on a computer running Windows XP.

- Hamamatsu

  Note: Tuxedo sensors manufactured prior to 2019 are Hamamatsu devices.

- Handy sensor
- ImageWorks EVA Select (supported directly as an e2v sensor or via a TWAIN driver)
- InstaRay sensor (supported using Hamamatsu as the acquisition device)
- Jazz (supported via a TWAIN driver)
- Jazz Solo sensor
- KaVo Dig eXam
- KaVo IXS

- Kodak/Carestream 5000 series and 6000 series (supported directly or via a TWAIN driver)
- LED Dental Tuxedo (supported using Hamamatsu as the acquisition device)

  Note: Tuxedo sensors manufactured in or after 2019 are e2v devices (Apteryx Tuxedo sensors), which are supported using e2v as the acquisition device. Contact LED Dental to verify if your Tuxedo sensor is a Hamamatsu device or an e2v device.

- Midmark Progeny ClearVision (supported directly or via a TWAIN driver)
- Owandy ONE and OPTEO
- Planmeca ProSensor (supported via DIDAPI)
- Planmeca ProSensor HD (supported via DIDAPI)
- Polaroid KEREN HD-S (supported via a TWAIN driver)
- QuickRay (supported using e2v as the acquisition device)
- QuickRay HD sensor (supported using Hamamatsu as the acquisition device)
- Remedi (supported using Hamamatsu as the acquisition device)
- Schick (supported via a TWAIN driver)
- Schick 33/XIOS XG (supported directly or via a TWAIN driver)

  Note: The device filter defaults are set automatically. When you select the Schick 33 device for the first time, the following default settings are used for filtering: custom Schick filter is set to "General," Apply Enhancement is set to "Not Enhanced," and Schick 33 is set to "Binned" operation.

- Schick AE (Dentsply Sirona)
- Schick CDR/Elite (supported directly or via a TWAIN driver; only compatible with Windows 7 32-bit)

  Important: This device is not officially supported because it is only compatible with an unsupported operating system. However, this device may function with Dentrix Imaging Center on a computer running Windows 7 32-bit.

- Sirona/Schick USB 3/AE (supported directly or via a TWAIN driver) – Added image filtering options during image acquisition. These filtering options enhance the flexibility and quality control available to users when they are capturing images.
- Schick HS (supported directly or via a TWAIN driver)
- Sirona IOSS – Added sharpness settings for filters. Filters for the Supreme and Velocity family of sensors allow users to set a sharpness value between 0 and 100. A new Sirona section was added to the agent preferences to store these values.
- SOPIX Gen 2 sensors
- SOTA Clio/Clio Prime sensor (supported using e2v as the acquisition device)
- Suni (most models supported via a TWAIN driver; contact the support department to verify)
- Teledyne e2v

  Note: e2v sensors are rebranded and sold by many companies under their specific brand names. The following devices are supported using e2v as the acquisition device:

  - Apteryx Tuxedo sensor (previous version is Hamamatsu, which is also supported directly)
  - Dentimax Dream sensor
  - EVA Select sensor
  - QuickRay sensor
  - SOTA Clio/Clio Prime sensor
  - XDR X-ray sensor

- Vatech HD sensor (supported via a TWAIN driver or Vatech EzDent-i Software Bridge)
- Vatech Wave sensor (supported via a TWAIN driver or Vatech EzDent-i Software Bridge)
- Video Dental Concepts QuickRay HD
- XDR sensor
- XDR X-ray sensor (supported using e2v as the acquisition device)
- Carestream Imaging Software Bridge
- DEXIS Software Bridge
- DTX Studio Software Bridge
- ImageWorks Software Bridge
- J. Morita i-Dixel Software Bridge
- Romexis Software Bridge
- ShadeWave Bidirectional Software Bridge
- Sidexis Software Bridge
- Vatech EzDent-i Software Bridge
- File Import (.bmp, .png, .jpg, .tif)

Intraoral/Extraoral X-ray Phosphor Plate Devices

- Acteon Sopro PSPIX
- Air Techniques ScanX Classic
- Air Techniques ScanX Duo
- Air Techniques ScanX IO
- Air Techniques ScanX Swift
- Durr VistaScan (supported directly or via a TWAIN driver)

  Note: You can use VisionX Connect to acquire images on a computer running Windows 11.
- Durr VistaScan Combi+ (supported directly or via a TWAIN driver)
- Durr VistaScan Mini (supported directly or via a TWAIN driver)
- Durr VistaScan Perio (supported directly or via a TWAIN driver)
- Gendex Denoptix QST
- Gendex GXPS-500
- Instrumentarium Express
- Instrumentarium Express Origo
- KaVo Scan eXam
- KaVo Scan eXam One
- Soredex Digora Optime

Extraoral X-ray Devices (Pan and Ceph)

- Gendex GXDP-300
- Gendex GXDP-700
- Gendex Orthoralix 8500/9200 DDE
- Instrumentarium OP30

- Instrumentarium OP300 (supported via a TWAIN driver)
- J. Morita Veraviewepocs 2D (supported via a TWAIN driver or the i-Dixel software bridge)
- J. Morita Veraviewpocs X800 3D Series (supported via a TWAIN driver or the i-Dixel software bridge)
- J. Morita Veraview IC5 HD (supported via a TWAIN driver or the i-Dixel software bridge)
- J. Morita Veraview X800 (supported via a TWAIN driver or the i-Dixel software bridge)
- KaVo devices
- KaVo OP3D (supported via an Instrumentarium TWAIN 7.6 driver)
- Kodak 8000/8100 (supported via a TWAIN driver)
- Kodak 9000/9300 (supported via a TWAIN driver)
- Planmeca ProMax (supported via DIDAPI)
- Planmeca ProOne (supported via DIDAPI)
- Sirona Dentsply Orthophos SL series (supported via a TWAIN driver)
- Sirona Dentsply Orthophos XG series (3, 5, Plus, 3D Ready, and 3D; all supported via a TWAIN driver)
- Vatech PaX-i and Pax-i Plus (supported via a TWAIN driver or Vatech EzDent-i Software Bridge)
- Carestream Imaging Software Bridge
- DEXIS Software Bridge
- DTX Studio Software Bridge
- J. Morita i-Dixel Software Bridge
- Romexis Software Bridge
- ShadeWave Bidirectional Software Bridge
- Sidexis Software Bridge
- Vatech EzDent-i Software Bridge
- File Import (.bmp, .png, .jpg, .tif)

Intraoral/Extraoral Color Photo Devices

- Acteon Sopro (all models)
- Air Techniques CamX Polaris (supported via a TWAIN driver)
- Air Techniques CamX Spectra (supported via a TWAIN driver)
- Carestream CS1000, CS1200, and CS1500 (supported via a TWAIN driver)
- DEXIS CariVu
- DEXIS DEXcam 3
- DEXIS DEXcam 4
- DEXIS DEXcam 4 HD
- Digital Doc IRIS (non-HD)
- Digital Doc IRIS HD
- DiscoveryHD Lite (Wired)
- DiscoveryHD Lite (Wireless)
- DiscoveryHD Pro (Wired)
- DiscoveryHD Pro (Wireless)
- DrsCam (Wired)
- DrsCam (Wireless)

- EZ ShotHD (Wired)
- EZ ShotHD (Wireless)
- MouthWatch (supported using the Generic Intraoral Camera device in Dentrix Imaging Center)
- Polaroid (Wired)
- Polaroid (Wireless)
- RealCloud HD1
- SuniCam HD (Wired)
- SuniCam HD (Wireless)
- WhicamStory3 (Wired)
- WhicamStory3 (Wireless)
- Any USB intraoral camera with buttons that have a joystick/game-port interface
- Any USB intraoral camera without buttons that has a foot pedal (or a similar triggering device) with a joystick interface
- Carestream Imaging Software Bridge
- DEXIS Software Bridge
- DTX Studio Software Bridge
- J. Morita i-Dixel Software Bridge
- Romexis Software Bridge
- ShadeWave Bidirectional Software Bridge (browser-based, color-matching software)
- Sidexis Software Bridge
- File Import (.bmp, .png, .jpg, .tif)

3D Volume Devices (CBCT)

- 3DIEMME enables seamless integration with RealGUIDE software for patient data transfer.
- BlueSky Bio One-Way Bridge Integration (allows sharing 3D volumes)
- J. Morita Veraviewepocs 3D Series (supported via the i-Dixel software bridge)
- J. Morita Veraview X800 (supported via the i-Dixel software bridge)
- J. Morita 3D Accuitomo Series (supported via the i-Dixel software bridge)
- KaVo CBCT devices
- Nemotec NemoStudio (allows sharing 3D volumes)
- Owandy CBCT device
- Owandy Quickvision 3D (allows sharing 3D volumes)
- Carestream Imaging Software Bridge
- DEXIS Software Bridge
- DTX Studio Software Bridge (Dentrix Imaging Center only displays and saves a 2D snapshot of a 3D volume acquired with this software bridge. The full 3D volume may still be viewable in the corresponding third-party software.)
- ImageWorks Software Bridge
- J. Morita i-Dixel Software Bridge
- Quickvision 3D
- Romexis Software Bridge
- SICAT One-Way Bridge Integration

- Sidexis Software Bridge
- VixWin Software Bridge – Added support for acquiring 3D volumes from Gendex CBCT devices.
- Vatech Ez 3D-i Software Bridge
- File Import (.dcm)

CAD/CAM Scan Devices

- Carestream CS7600
- DTX Studio Software Bridge
- Romexis Software Bridge
- File Import (.stl, .ply)

Important:

- If you want to use a device other than a DEXIS device, additional costs may be required, such as the purchase of drivers, to integrate that device with Dentrix Imaging Center. Before you purchase the Dentrix Imaging Center add-on or a particular device that you want to use with Dentrix Imaging Center, consult the manufacturer of that device to verify if there will be costs to get that device working with Dentrix Imaging Center.
- Some, but not all, devices have been tested using a TWAIN driver. Using a TWAIN driver with certain devices might have unexpected results.

Third-party Image Conversions

Image conversion is available for Dentrix Imaging Center for new Dentrix customers. This offering provides for the bulk, automated conversion of images and metadata from third-party imaging programs to Dentrix Imaging Center.

Process Overview and Requirements

- Your previous imaging program must have been integrated (bridged) with your previous practice management system. The imaging program must *not* be running as a stand-alone program with patients being entered directly into it.
- The data from your previous practice management system must have been converted to Dentrix.
- Depending on the size of your previous image database, you must provide Henry Schein One with a copy of your imaging data in one of the following ways:
  - For a database that is smaller in size, you upload your imaging data to a secure website directly from your office.
  - For a database that is larger in size, Henry Schein One sends you an encrypted hard drive. When you receive the hard drive, a member of the conversion team remotely logs onto a computer in your office network and copies the necessary imaging data to the hard drive. Then, you send the hard drive back to Henry Schein One.

Scheduling

To schedule an imaging conversion, contact the Henry Schein One sales team to place an order. After the order is processed, a member of the Henry Schein One conversion team contacts you to verify the imaging program version and the amount of imaging data. Then, you schedule your imaging conversion. Typically, you must schedule your imaging conversion at least three weeks in advance. A conversion team member collects the imaging data from you one week prior to the desired conversion date.

Imaging Brands and Versions

The following imaging programs and versions can be converted by the Henry Schein One conversion team.

Apteryx XrayVision and OEM Brands

- Any version of XrayVision 3.x or 4.x including OEM versions can be converted.

  Note: BelmontXV, CliniView, DDS Works, DentiMax Advance Imaging, Imadge DDS, Image XL, LED Imaging, LynxVision Pro, MaxiViewer, MPDx, OneView, OriView, Prof Suni, QSI Image, Sigma Image XRV, VisionDent.

- Supports the conversion of all XrayVision intraoral X-rays, extraoral X-rays, intraoral color images (camera), and extraoral color images (digital camera).
- Metadata, including tooth numbers/anatomic region, date of acquisition, and associated images in an exam, are all converted.
- A single image acquired in XrayVision on a given date is converted and stored as a single image in Dentrix Imaging Center.
- Multiple images acquired in XrayVision on a given date (using a template/mount) are converted and are either put into the best matching Dentrix Imaging Center template (4BW or FMX, for example) or if no template matches well, Tiled.

Apteryx XVLite and OEM Brands

- Any version can be converted.

  Note: OEM brands of AFP Digital, Air Techniques ScanSmart, Belmont XVlite, CliniTouch, Dentimax Imaging, Dr Suni, Lightyear, Lynxvision LT, MaxiViewer Lite, OneView Lite, QuickImage, Sigma Image XVL.

- Supports the conversion of all XVLite intraoral X-rays, extraoral X-rays, intraoral color images (camera), and extraoral color images (digital camera).
- Metadata, including tooth numbers/anatomic region, date of acquisition, and associated images in an exam, are all converted.
- A single image acquired in XVLite on a given date is converted and stored as a single image in Dentrix Imaging Center.
- Multiple images acquired in XVLite on a given date (using a template/mount) are converted and either put into the best matching Dentrix Imaging Center template (4BW or FMX, for example) or if no template matches well, Tiled.

Apteryx XrayVWeb

- Metadata, including tooth numbers/anatomic region, date of acquisition, and associated images in an exam, are all converted.
- Supports the conversion of all XVWeb intraoral X-rays, extraoral X-rays, intraoral color (camera) images, and extraoral color (digital camera) images.
- A single image acquired in XVWeb on a given date is converted and stored as a single image in Dentrix Imaging Center.
- Multiple images taken in XVWeb on a given date (using a Template/Mount) are converted and either put into the best matching Dentrix Imaging Center template (4BW or FMX, for example) or if no template matches well, Tiled.

Curve Dental Imaging (Curve Capture)

- The current version of Curve Capture (Curve's Imaging module) can be converted.
- Curve Capture images are converted and placed in the appropriate Dentrix Imaging Center categories (intraoral X-rays, extraoral X-rays, intraoral color images, and extraoral color images).
- Supports the conversion of all intraoral X-rays, extraoral X-rays, intraoral color images (camera), and extraoral color images (digital camera).
- Metadata, including tooth numbers, date of acquisition, and associated images in an exam, are all converted.

Notes:

- Curve Capture duplicates template images and additionally saves them as individual single images. Dentrix Imaging Center converts Curve Capture template images and stores them in a Dentrix Imaging Center template. Dentrix Imaging Center does not duplicate the template images as individual images.
- The various file formats used by Curve Capture to save images are all supported by the Dentrix Imaging Center converter.
- Images are converted to Dentrix Imaging Center in their current state, as displayed in Curve Capture.

DBSWIN

- Versions 5.14 and higher can be converted.
- Metadata, including tooth numbers/anatomic region, date of acquisition, and associated images in an exam, are all converted.
- Supports the conversion of all DBSWIN intraoral X-rays, extraoral X-rays, intraoral color images (camera), and extraoral color images (digital camera).
- A single image acquired in DBSWIN on a given date is converted and stored as a single image in Dentrix Imaging Center.
- Multiple images taken in DBSWIN on a given date (using a Template/Mount) are converted and either put into the best matching Dentrix Imaging Center template, such as 4BW, FMX, or if no template matches well, Tiled.

Dentrix Image, Dentrix Clarity, and Vipersoft (all by DEXIS)

- Any version X and later can be converted.
- Supports conversion of all intraoral X-rays, extraoral X-rays, intraoral color images (camera), and extraoral color images (digital camera).
- Metadata, including tooth numbers/anatomic region, date of acquisition, and associated images in an exam, are all converted.
- A single image acquired in Dentrix Image on a given date is converted and stored as a single image in Dentrix Imaging Center.
- Multiple images acquired in Dentrix Image on a given date (using template/mount) are converted and put into the best matching Dentrix Imaging Center template, such as 4BW or FMX or, if no template matches well, Tiled.

DEXIS

- Any version of DEXIS 9.x and 10.x can be converted.
- DEXIS images are converted and placed in the appropriate Dentrix Imaging Center categories (intraoral X-rays, extraoral X-rays, intraoral color images, and extraoral color images).

- Supports the conversion of all intraoral X-rays, extraoral X-rays, intraoral color images (camera), and extraoral color images (digital camera).
- Metadata, including tooth numbers, date of acquisition, and associated images in an exam, are all converted.
- Both the .dex and .tiff image file formats that DEXIS uses are converted.

Eaglesoft Advanced Imaging Module

- Any version 17.x and higher can be converted.
- Supports the conversion of all Eaglesoft intraoral X-rays, extraoral X-rays, intraoral color images (camera), and extraoral color images (digital camera).
- Metadata, including tooth numbers/anatomic region, date of acquisition, and associated images in an exam, are all converted.
- A single image acquired in Eaglesoft on a given date is converted and stored as a single image in Dentrix Imaging Center.
- Multiple images acquired in Eaglesoft on a given date (using a template/mount) are converted and are either put into the best matching Dentrix Imaging Center template (4BW or FMX, for example) or if no template matches well, Tiled.

Kodak Carestream

- Any version 6.x, 7.x, and 8.x can be converted.
- The Kodak Dental Imaging Software is also commonly called KDIS.
- KDIS 6.x is a version of the Trophy imaging program and is the most popular version of the Carestream imaging program.
- Supports the conversion of all intraoral X-rays, extraoral X-rays, intraoral color images (camera), and extraoral color images (digital camera).
- Metadata, including tooth numbers, date of acquisition, and associated images in an exam, are all converted.
- A single image acquired in KDIS on a given date is converted and stored as a single image in Dentrix Imaging Center.
- Multiple images acquired in KDIS on a given date are converted and put into the best matching Dentrix Imaging Center template, such as 4BW or FMX, based on the tooth numbers defined for each image in KDIS.

MacPractice

- Version 13.x and higher can be converted.
- Metadata, including tooth numbers/anatomic region, date of acquisition, and associated images in an exam, are all converted.
- Supports the conversion of all MacPractice intraoral X-rays, extraoral X-rays, intraoral color (camera) images, and extraoral color (digital camera) images.
- A single image acquired in MacPractice on a given date is converted and stored as a single image in Dentrix Imaging Center.
- Multiple images taken in MacPractice on a given date (using a Template/Mount) are converted and either put into the best matching Dentrix Imaging Center template (4BW or FMX, for example) or if no template matches well, Tiled.

Mediadent/CADI

- Versions 8.21.07 and higher can be converted.
- Metadata, including tooth numbers/anatomic region, date of acquisition, and associated images in an exam, are all converted.
- Supports conversion of all Mediadent intraoral X-rays, extraoral X-rays, intraoral color images (camera), and extraoral color images (digital camera).
- A single image acquired in Mediadent on a given date is converted and stored as a single image in Dentrix Imaging Center.
- Multiple images taken in Mediadent on a given date (using a Template/Mount) are converted and either put into the best matching Dentrix Imaging Center template, such as 4BW, FMX, or if no template matches well, Tiled.

MiPACS Dental Enterprise Imaging

- Metadata, including tooth numbers/anatomic region, date of acquisition, and associated images in an exam, are all converted.
- Supports conversion of all MiPACS intraoral X-rays, extraoral X-rays, intraoral color images (camera), and extraoral color images (digital camera).
- A single image acquired in MiPACS on a given date is converted and stored as a single image in Dentrix Imaging Center.
- Multiple images taken in MiPACS on a given date (using a Template/Mount) are converted and either put into the best matching Dentrix Imaging Center template (4BW or FMX, for example) or if no template matches well, Tiled.

Patterson Image

- Any version 17.x and higher can be converted.

  Note: The Patterson Imaging website states that Patterson Imaging version 13 or higher can be upgraded to version 17. This has not been verified for every previous Patterson Imaging version. Ask for more information if you are using a Patterson Imaging version previous to version 17.

- Supports the conversion of all Patterson Imaging intraoral X-rays, extraoral X-rays, intraoral color images (camera), and extraoral color images (digital camera).
- Metadata, including tooth numbers/anatomic region, date of acquisition, and associated images in an exam, are all converted.
- A single image acquired in Patterson Imaging on a given date is converted and stored as a single image in Dentrix Imaging Center.
- Multiple images taken in Patterson Imaging on a given date (using a template/mount) are converted and put into the best matching Dentrix Imaging Center template (4BW or FMX, for example) or if no template matches well, Tiled.

Planmeca Romexis

- Any version 5.x and higher can be converted.
- Supports conversion of all Romexis intraoral X-rays, extraoral X-rays, intraoral color images (camera), extraoral color images (digital camera), and 2D snapshots of 3D volumes.
- Metadata, including tooth numbers/anatomic region, date of acquisition, and associated images in an exam, are all converted.

- A single image acquired in Romexis on a given date is converted and stored as a single image in Dentrix Imaging Center.
- Multiple images taken in Romexis on a given date (using a template/mount) are converted and put into the best matching Dentrix Imaging Center template (4BW or FMX, for example) or if no template matches well, Tiled.

Schick CDR DICOM

- Any version 5.x can be converted.
- CDR DICOM version 5.4 is the latest version.

  Note: Dentsply-Sirona has declared the end of life for Schick CDR DICOM and will not be adding new versions.

- If your practice is running an older version of Schick CDR, it is possible to update to the 5.4 version prior to conversion if needed.

  Note: You can download the Schick CDR 5.4 program at no cost.

- Supports the conversion of all intraoral X-rays, extraoral X-rays, intraoral color images (camera), and extraoral color images (digital camera).
- Metadata, including tooth numbers, date of acquisition, and associated images in an exam, are all converted.
- A single image acquired in Schick CDR on a given date is converted and stored as a single image in Dentrix Imaging Center.
- Multiple images taken in Schick CDR on a given date are converted and either put into the best matching Dentrix Imaging Center template (4BW or FMX, for example) or if no template matches well, Tiled.

Sirona Sidexis

- Any version 4.2x and higher can be converted.
- Metadata, including tooth numbers/anatomic region, date of acquisition, and associated images in an exam, are all converted.
- Supports the conversion of all Sidexis intraoral X-rays, extraoral X-rays, intraoral color images (camera), and extraoral color images (digital camera).
- Multiple images taken in Sidexis on a given date are converted and either put into the best matching Dentrix Imaging Center template (4BW or FMX, for example) or if no template matches well, Tiled.

Tigerview/Visix

- Versions 2.x and higher can be converted.
- Metadata, including tooth numbers/anatomic region, date of acquisition, and associated images in an exam, are all converted.
- Supports conversion of all Tigerview intraoral X-rays, extraoral X-rays, intraoral color images (camera), and extraoral color images (digital camera).
- A single image acquired in Tigerview on a given date is converted and stored as a single image in Dentrix Imaging Center.
- Multiple images taken in Tigerview on a given date (using a Template/Mount) are converted and either put into the best matching Dentrix Imaging Center template, such as 4BW, FMX, or if no template matches well, Tiled.

VixWin, VixWin Pro, and VixWin Platinum

- Any version 3.x and later can be converted.

  Note: Conversion is possible only if you bridge VixWin to the practice management system.

- Supports the conversion of all VixWin intraoral X-rays, extraoral X-rays, intraoral color (camera) images, and extraoral color (digital camera) images.
- Metadata, including tooth numbers/anatomic region, date of acquisition, and associated images in an exam, are all converted.
- A single image acquired in VixWin on a given date is converted and stored as a single image in Dentrix Imaging Center.
- Multiple images acquired in VixWin on a given date (using a template mount) are converted and put into the the best matching Dentrix Imaging Center template (4BW or FMX, for example) or if no template matches well, Tiled.

XDR

- Any version 3.2x and higher can be converted.
- Supports conversion of all XDR intraoral X-rays, extraoral X-rays, intraoral color images (camera), and extraoral color images (digital camera).
- Metadata, including tooth numbers/anatomic region, date of acquisition, and associated images in an exam, are all converted.
- A single image acquired in XDR on a given date is converted and stored as a single image in Dentrix Imaging Center.
- Multiple images taken in XDR on a given date are converted and either put into the best matching Dentrix Imaging Center template (4BW or FMX, for example) or if no template matches well, Tiled.