dentally vision

Complete User Guide

Provided by

HENRY SCHEIN ONE

CE

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Version

You can find the UDI (Unique Device Identifier) followed by the current version number of Dentally Vision by doing the following: You can go to the Developer Tools panel (in Chrome) or on the Web Inspector panel (in Safari), select the Console tab, and then open Dentally Vision. A line of text similar to “Imaging: (01)00864058000302(10)1.1.8595.29819 7/14/2023 4:33 PM “appears.

Real Cloud Imaging Inc.
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EC REP

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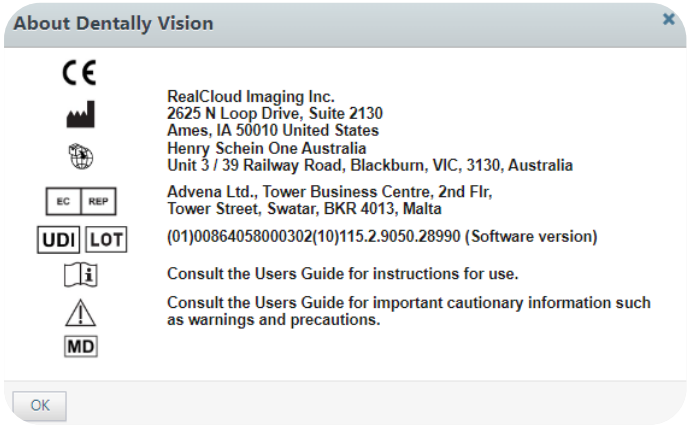
Alternatively, you can view the UDI by going to the “About Dentally Imaging” button in the bottom right-hand corner of the Cloud Gallery

Australia and Canadian Label



UK Label

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Introduction

Dentally Vision imaging solution is a cloud-based 2D and 3D dental imaging software module that interacts seamlessly with the Dentally practice management program to provide efficient and versatile image management. Dentally Vision manages intraoral and extraoral X-rays/volumes as well as intraoral and extraoral colour images produced by intraoral video and/or consumer digital cameras.

Because Dentally Vision is a web-based imaging software application, you can use it with Windows, Mac OS, iOS (iPad), and other operating systems in a Chrome Internet browser.

You can acquire, import, export, view, and edit 2D images and 3D volumes of dental anatomy. Dentally Vision 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 cloud, so you can access them from multiple locations for any number of users in near real time. Dentally Vision uses world-class storage providers, and images are automatically replicated to multiple servers for disaster recovery.

Dentally Vision has many image processing tools (such as filters and enhancements) that you can use on images to help determine the necessary treatments for patients.

Dentally Vision is available as an add-on and must be purchased separately.

By default, Dentally Vision utilizes lossless compression for all intraoral and extraoral x-ray images and which is 100% reversible and does not result in loss of data. Optionally, Dentally Vision can be configured to utilize lossy JPEG compression when acquiring intraoral and extraoral images; and which is not 100% irreversible and does result in loss of data. The JPEG compression Q factor used in Dentally Vision is Q96 and which is considered near perfect quality. Dentally Vision utilizes lossy compression (JPEG) for all intraoral and extraoral colour images.

Contact Dentally Customer Support should you have any questions, difficulties using, experience any anomalies, or have comments regarding Dentally Vision.

Indications for use

Dentally Vision is a web-based Dental Picture Archiving and Communications Systems (PACS), i.e. dental imaging software, that enables dental care facilities to acquire, process, edit, and enhance dental images.

Dentally Vision provides a web-based interface for image acquisition and management of images which are used in the field of Dentistry and when operated by dental professionals who are responsible for providing dental care.

Images can be acquired from dental image acquisition devices and/or consumer imaging devices such as colour digital cameras. Previously acquired images or volumes can be selected for upload directly from the user's computer.

Supported images include intraoral and extraoral dental X-rays/volumes and intraoral and extraoral colour images produced by intraoral video or consumer digital cameras.

Dentally Vision is used for diagnostic purposes in the field of dentistry.

Dentally Vision is not intended for diagnostic use on a mobile display.

Images can be edited/enhanced (e.g., zoomed, contrast adjusted, inverted, annotated, rotated, filtered, etc...) as well as exported to standard image file formats.

Contraindications

None known.

Precautions

Federal law restricts this device to sale by or on the order of a dentist.

To effectively use the Dentally Vision program, it is strongly recommended that all users obtain dedicated training on the use of this software prior to use on any live patients.

Read and understand the User's Guide in its entirety before using the Dentally Vision program upon live patients.

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

Distance and angle measurements require calibration by measuring length of a known object in image.

It is the operator's (user) responsibility to properly calibrate prior to clinical measurements and to determine if the accuracy achieved is within the error range required.

Do not operate this software upon live patients if you are feeling ill, fatigued, or if you are experiencing lack of concentration.

Do not leave any computer/device which is operating Dentally Vision unattended as this can create a security risk to patient or practice data. Always close the Dentally Vision program when leaving a computer or device unattended.

Dentally Vision is intended to be used in combination with other approved medical devices. To ensure Dentally Vision is safe and does not impair the performance, the other approved medical device must be functional and working per the manufactures IFU before using in combination with Dentally Vision.

System Requirements

Broadband speed / bandwidth

There are two recommended broadband performance requirements which a practice needs to meet in order to achieve a good experience using Dentally Vision:

1. A stable and reliable broadband connection (Fixed line or Wireless 4G):
    a. Consistently achieving speeds of 24Mbps download / 4Mbps upload; and
2. Where there is the potential for more than one computer simultaneously using Dentally Vision:
    a. At least 5Mbps download and 1Mbps upload of dedicated bandwidth for 2D image capture per computer;
    b. At least 10Mbps download and upload of dedicated bandwidth for 3D image capture per computer.

For example:

- A practice's broadband connection for a single computer using Dentally Vision 2D should meet the consistent bandwidth requirement of 24Mbps down / 4Mbps up;
- A practice's broadband connection which has the potential of simultaneously using Dentally Vision 2D on six computers at one time requires at least 30Mbps down / 6Mbps up of dedicated bandwidth;
- A practice's broadband connection which has the potential of simultaneously using Dentally Vision 3D on five computers requires bandwidth of at least 50Mbps down / 50Mbps up of dedicated bandwidth.

Browser

- Latest version of Chrome for PC and Mac

Operating System

- Microsoft Windows 10 or later
- MacOS 10.15 Catalina or later

Note: The operating system must be updated with the latest versions of any system patches and security updates.

Anti-Virus Software

- Anti-virus software patched to latest version and virus definitions.

Display

- 21.5-inch (measured diagonally) monitor
- 1920 x 1080 resolution
- **Note**: For best results, always use the native screen resolution of a monitor.

3D System Requirements

- Graphics card with 2GB of video ram (not shared) for small/medium FOV.
- Graphics card with 4GB of video ram (not shared) for large FOV.
- Preferred discrete/dedicated graphics card (not integrated onto motherboard) and is required for large FOV.
- Current (last year/two) of integrated (on motherboard) graphics card can work for small/medium FOV with minimum 2GB available for Video Ram. (volume rendering can be bit slow, but it is turned off by default)
- Dicom volume compression/decompression preferred mid-range CPU (I5 or higher) and system Ram 8GB or more.

IMPORTANT INFORMATION - volume rendering can be slow, but it is turned off by default. Dicom volume compression/decompression preferred mid-range CPU (I5 or higher) and system ram 8GB or more.

Scanners

TWAIN drivers built on version 1.9 or later of the TWAIN standard

Notes:

- All modes (such as native and buffered) are supported.
- Single-image transfers and multiple-image transfers are supported.
- Automatic document feeders (ADF) are not supported.
- The TWAIN Direct standard (which is different from TWAIN) is not supported.

Supported Acquisition Devices

Supported Intraoral X-ray Devices

*For Mac see note #2 below

Device Name	Compatibility	Notes
A2Z Imaging DUO	Windows	
Acteon Sopro SOPIX Gen. 1	Windows Mac	Windows OS supported directly or via a TWAIN driver Mac OS Supported directly
Acteon Sopro SOPIX Gen. 2	Windows Mac	
Apteryx Tuxedo	Windows Mac	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	Windows	
CARINA	Windows	
DentalSensors.com Apex	Windows	
Dentimax Dream	Windows Mac	Supported using e2v as the acquisition device.

Dentsply Sirona XIOS AE	Windows	Supported directly using "Sirona / Schick USB 3 / AE" as the acquisition device; or supported via the SiTWAIN driver
Dentsply Sirona XIOS XG Select	Windows	Supported directly using "Sirona / Schick USB 3 / AE" as the acquisition device; or supported via the SiTWAIN driver
Dentsply Sirona XIOS XG Supreme	Windows	Supported directly using "Sirona / Schick USB 3 / AE" as the acquisition device with a USB 2.0/3.0 interface; supported directly using "Schick 33 / Xios XG" as the acquisition device with a USB 2.0 interface; or supported via the SiTWAIN driver
Dexis Platinum	Windows	
	Mac	
Dexis Titanium	Windows	
	Mac	
EVA Select	Windows	Supported using e2v as the acquisition device.
	Mac	
Gendex/KaVo IO	Windows	Supported using GxPicture as the acquisition device
FTG DC-Air	Windows	
Gendex GXS-700	Windows	
Gendex Visualix eHD	Windows	Only compatible with Windows 7 **Important:** This device is not officially supported because it is only compatible with an unsupported operating system

Gendex Visualix GX-S	Windows	Only compatible with Windows XP **Important:** This device is not officially supported because it is only compatible with an unsupported operating system
GxPicture devices	Windows	
Hamamatsu	Windows	**Note**: Tuxedo sensors that were manufactured prior to 2019 are Hamamatsu devices.
Handy HDR-360/460 and HDR-500/600	Windows	
ImageWorks EVA Select	Windows	Supported directly using "e2v" as the acquisition device; or supported via a TWAIN driver
InstaRay	Windows Mac	Supported using Hamamatsu as the acquisition device
iRay Pluto	Windows	
iRay Woodpecker, or Eighteeth	Windows	Direct Integration to Titanium/KaVo Sensors
Jazz	Windows	Supported via a TWAIN driver
Jazz Solo	Windows	
KaVo Dig eXam	Windows	
KaVo IXS	Windows	
Kodak/Carestream 5000 series and 6000 series	Windows	Supported directly or via a TWAIN driver

LED Dental Tuxedo	Windows	Supported using "Hamamatsu" as the acquisition device **Note:** Tuxedo sensors that were 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	Windows	Supported directly or via a TWAIN driver
Owandy ONE and OPTEO	Windows	
Planmeca ProSensor	Windows	Supported via DIDAPI
Planmeca ProSensor HD	Windows Mac	Supported via DIDAPI; for Mac OS, DIDAPI 5.4.0 or newer is required,
Polaroid KEREN HD-S	Windows	Supported via a TWAIN driver
QuickRay	Windows Mac	Supported using "e2v" as the acquisition device
QuickRay HD	Windows Mac	Supported using "Hamamatsu" as the acquisition device
Remedi	Windows	Supported using "Hamamatsu" as the acquisition device
Schick 33	Windows	From Dentsply Sirona; supported directly using "Sirona / Schick USB 3 / AE" as the acquisition device with a USB 2.0/3.0 interface; supported directly using "Schick 33 / Xios XG" as the acquisition device with a USB 2.0 interface; supported via the SiTWAIN driver with a USB 2.0/3.0 interface; or supported via the "CDR

		Inra-oral X-ray Acquisition" TWAIN driver with a USB 2.0 interface
Schick AE	Windows	From Dentsply Sirona; supported directly using "Sirona / Schick USB 3 / AE" as the acquisition device; or supported via the SiTWAIN driver
Schick CDR 2000	Windows	From Dentsply Sirona; 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.
Schick Elite	Windows	From Dentsply Sirona; supported directly using "Sirona / Schick USB 3 / AE" as the acquisition device with a USB 2.0/3.0 interface; supported directly using "Schick CDR / Elite" as the acquisition device with a USB 2.0 interface; or supported via the SiTWAIN driver.
Schick HS	Windows	From Dentsply Sirona; supported directly or via a TWAIN driver; only compatible with Windows 7. **Important**: This device is not officially supported because it is only compatible with an unsupported operating system.
SOTA Clio/Clio Prime	Windows Mac	Supported using "e2v" as the acquisition device.
Suni	Windows	Most models supported via a TWAIN driver; contact Support to verify

Teledyne e2v	Windows 	**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: • Dentimax Dream sensor • EVA Select sensor • SOTA Clio/Clio Prime sensor • Apteryx Tuxedo sensor (the older model is supported using Hamamatsu as the acquisition device) • QuickRay/InstaRay • XDR X-ray sensor
Vatech HD Sensor	Windows 	Supported directly, via a TWAIN driver, or via the Vatech EzDent-i Software Bridge
Catech Wave Sensor	Windows 	Supported via a TWAIN driver or Vatech EzDent-i Software Bridge
Video Dental Concepts QuickRay HD	Windows 	
XDR X-ray sensor	Mac  Windows 	Mac supported using "e2v" as the acquisition device.
Carestream Imaging Software Bridge	Windows 	
Dexis Software Bridge	Windows 	
DTX Studio Software Bridge	Windows  Mac 	

J. Morita i-Dixel Software Bridge	Windows 	
Romexis Software Bridge	Mac 	
	Windows 	
Sidexis Software Bridge	Windows 	
Vatech EzDent-i Software Bridge	Windows 	
File Import (.bmp, .png, .jpg, .tif)	Mac 	
	Windows 	

Supported Intraoral/Extraoral X-ray Phosphor Plate Devices

*For Mac see note #2 below

Device Name	Compatibility	Notes
Acteon Sopro PSPIX	Windows Mac	
Air Techniques ScanX Classic	Windows	
Air Techniques ScanX Duo	Windows	
Air Techniques ScanX IO	Windows	
Air Techniques ScanX Swift	Windows	
Carestream CS7600	Windows	
Durr VistaScan	Windows	Supported directly, via a TWAIN driver, or via VisionX Connect for Windows 11
Durr VistaScan Combi+	Windows	Supported directly, via a TWAIN driver, or via VisionX Connect for Windows 11
Durr VistaScan Mini	Windows	Supported directly, via a TWAIN driver, or via VisionX Connect for Windows 11
Durr VistaScan Perio	Windows	Supported directly, via a TWAIN driver, or via VisionX Connect for Windows 11
Gendex Denoptix QST	Windows	
Gendex GXPS-500	Windows	
GxPicture devices	Windows	
Instrumentarium Express	Windows	
Instrumentarium Express Origo	Windows	

KaVo Scan eXam	Windows	
KaVo Scan eXam One	Windows	
Soredex Digora Optime	Windows	

Supported Extraoral X-ray Devices (Pan and Ceph)

Device Name	Compatibility	Notes
Dentsply Sirona Orthophos SL Series	Windows	Supported via a TWAIN driver
Dentsply Sirona Orthophos XG 3, 5, Plus, 3D Ready, and 3D	Windows	Supported via a TWAIN driver
Gendex GXDP-300	Windows	
Gendex GXDP-700 series	Windows	
Gendex Orthoralix 8500/9200 DDE	Windows	
GxPicture devices	Windows	
Instrumentarium OP30	Windows	
Instrumentarium OP300	Windows	Supported via a TWAIN driver
J. Morita Veraviewepocs 2D	Windows	Supported via a TWAIN driver or the i-Dixel software bridge
J. Morita Veraviewepocs 3D Series	Windows	Supported via a TWAIN driver or the i-Dixel software bridge
J. Morita Veraview IC5 HD	Windows	Supported via a TWAIN driver or the i-Dixel software bridge
J. Morita Veraview X800	Windows	Supported via a TWAIN driver or the i-Dixel software bridge

KaVo OP3D	Windows	Supported via an Instrumentarium TWAIN 7.6 driver
KaVo ProXam 2D, 3D, 3DQ, and Ceph	Windows	
Kodak 8000/8100	Windows	Supported via a TWAIN driver
Kodak 9000/9300	Windows	Supported via a TWAIN driver
Planmeca ProMax	Windows Mac	Supported via DIDAPI; for Mac OS, DIDAPI 5.4.0 or newer is required
Planmeca ProOne	Windows Mac	Supported via DIDAPI; for Mac OS, DIDAPI 5.4.0 or newer is required
Vatech PaX-i and Pax-i Plus	Windows	Supported via a TWAIN driver or Vatech EzDent-i Software Bridge
Carestream Imaging Software Bridge	Windows	
Dexis Software Bridge	Windows	
DTX Studio Software Bridge	Windows Mac	
J. Morita i-Dixel Software Bridge	Windows	
Romexis Software Bridge	Windows Mac	
Sidexis Software Bridge	Windows	
Vatech EzDent-i Software Bridge	Windows	
File Import (.bmp, .png, .jpg, .tif)	Windows Mac	

Supported Intraoral/Extraoral Colour Photo Devices

*For Mac see note #2 below

Note: Because many older intraoral video cameras are not supported in Dentally Vision in the Chrome browser, a video capture helper app launches when you attempt to acquire images using legacy capture devices with external analog video to USB adapters or internal capture devices that include an analog/digital converter.

Device Name	Compatibility	Notes
Acteon Sopro (all models)	Windows Mac	
Air Techniques CamX Polaris	Windows	Supported via a TWAIN driver
Air Techniques CamX Spectra	Windows	Supported via a TWAIN driver
Carestream CS1000, CS1200, and CS1500	Windows	Supported via a TWAIN driver
Dexis CariVu	Windows Mac	
Dexis DEXcam 3	Windows	
Dexis DEXcam 4	Windows	
Dexis DEXcam 4 HD	Windows	
Digital Doc (Mac version)	Mac	

Digital Doc IRIS (non-HD)	Windows 	
Digital Doc IRIS HD	Windows 	
DiscoveryHD Lite (Wired)	Windows  Mac 	
DiscoveryHD Lite (Wireless)	Windows 	
DiscoveryHD Pro (Wired)	Windows  Mac 	
DiscoveryHD Pro (Wireless)	Windows 	
DrsCam (Wired)	Windows  Mac 	
DrsCam (Wireless)	Windows 	
EZ ShotHD (Wired)	Windows  Mac 	
EZ ShotHD (Wireless)	Windows 	
iPad	iOS 	supported using one of the built-in cameras via the Safari browser on iOS
MouthWatch	Windows 	Supported using "Generic Intraoral Camera" as the acquisition device; MouthWatch Capture must be installed and configured
Polaroid (Wired)	Windows  Mac 	
Polaroid (Wireless)	Windows 	
RealCloud HD1	Windows 	

	Mac 	For Mac OS, supported using "Generic Intraoral Camera device" as the acquisition device
SuniCam HD (Wired)	Windows  Mac 	
SuniCam HD (Wireless)	Windows 	
WhicamStory3 (Wired)	Windows  Mac 	
WhicamStory3 (Wireless)	Windows 	
Any USB intraoral camera with buttons that have a joystick/game-port interface	Windows 	
Any USB intraoral camera without buttons that has a foot pedal (or a similar triggering device) with a joystick interface	Windows 	
Carestream Imaging Software Bridge	Windows 	
Dexis Software Bridge	Windows 	
DTX Studio Software Bridge	Windows  Mac 	
J. Morita i-Dixel Software Bridge	Windows 	
Romexis Software Bridge	Windows  Mac 	
Shadewave Software Bridge	Windows  Mac 	
Sidexis Software Bridge	Windows 	

File Import (.bmp, .png, .jpg, .tif)	Windows 	
	Mac 	

Supported CAD/CAM Scan Devices

*For Mac see note #2 below

Device Name	Compatibility	Notes
DTX Studio Software Bridge	Windows 	Note: The purchase and installation of the DTX Studio Clinic imaging program is required.
	Mac 	
Romexis Software Bridge	Windows 	
	Mac 	
File Import (.stl, .ply)	Windows 	
	Mac 	

Supported 3D Volume Devices (CBCT)

*For Mac see note #2 below

Device Name	Compatibility	Notes
Gendex GXDP-700 S and SC	Windows	Supported via the VixWin software bridge
J. Morita Veraviewepocs 3D Series	Windows	Supported via the VixWin software bridge
J. Morita Veraview X800	Windows	Supported via the VixWin software bridge
J. Morita 3D Accuitomo Series	Windows	Supported via the VixWin software bridge
Owandy I-Max 3D, 3D Pro, Ceph 3D, and 3D Ceph Pro	Windows	
Acteon AIS Software Bridge	Windows	
Carestream Imaging Software Bridge	Windows	
DEXIS Software Bridge	Windows	
DTX Studio Software Bridge	Windows	See note # 4 below
ImageWorks Software Bridge	Windows	
J.Morita i-Dixel Software Bridge	Windows	
Romexis Software Bridge	Windows Mac	
Sidexis Software Bridge	Windows	
Vatech EzDent-I Software Bridge	Windows	
File Import (.dcm)	Windows Mac	

Important: Additional costs may be required, such as the purchase of drivers, to integrate the device with Dentally Vision . Before you purchase the Dentally Vision add-on or a particular device that you want to use with Dentally Vision, consult the manufacturer of that device to verify if there will be costs to get that device working with Dentally Vision .

Notes

1. Some, but not all, devices have been tested using a TWAIN driver. Using a TWAIN driver with certain devices might have unexpected results.

2. Depending on the availability of drivers from the manufacturer, this device may have compatibility issues with computers running MacOS 10.15 (Catalina) and 11 (Big Sur) and computers that have an M1 chip.

3. This device is supported on computers running MacOS 10.15 (Catalina) if SoPro Imaging 1.13 is installed. When you start the acquisition, the MAV2M program (which replaces SoPro Capture) opens automatically.

4. Dentally Vision displays and saves only a 2D snapshot of a 3D volume that is acquired using this software bridge. However, the full 3D volume may still be viewable in the corresponding third-party software.

Setting up Imaging Devices

Setting up the acquisition agent

Because Dentally Vision is a web-based application, it is available immediately for use once you have purchased it and has been enabled by Henry Schein One. However, for each computer that you want to acquire images from, you must install the following on that computer:

Drivers - The drivers for the intraoral and/or extraoral acquisition devices that you want to use.

Note: For the complete list of acquisition devices that are supported by Dentally Vision, see "Supported Acquisition Devices."

Acquisition agent - A small application that runs in the background and handles the communication between your acquisition devices and Dentally Vision. You do not need to install the acquisition agent on computers that you will be using to only view images.

Note: During the installation of the acquisition agent, a security certificate is installed automatically to allow for secure communication between the browser running Dentally Vision and the acquisition agent.

Note: For Windows users, a watchdog utility is also installed alongside the acquisition agent. This utility monitors whether the agent is running and will attempt to restart it automatically if it stops. The watchdog tray icon shows the agent's status (green = enabled, yellow = disabled, red = error) and includes a shortcut to manually start the agent if needed.

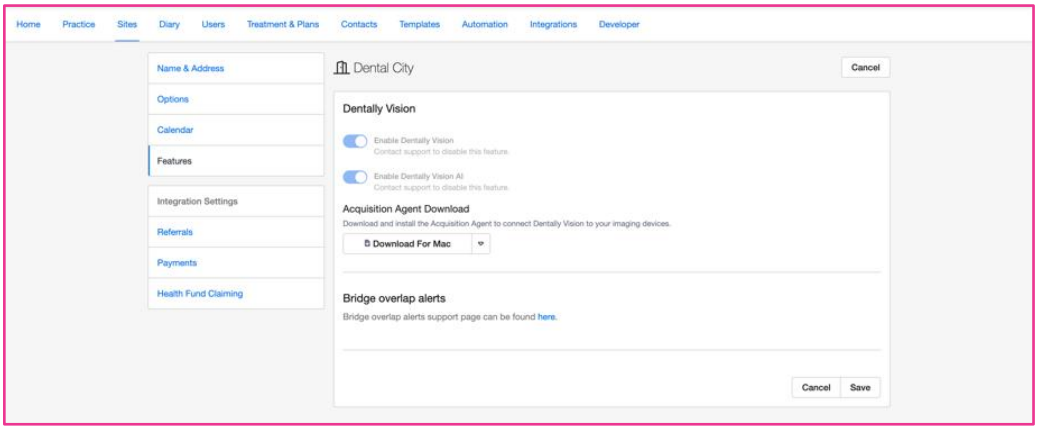
Setting up the acquisition agent consists of the following three tasks:

- Downloading
- Installing
- Configuring

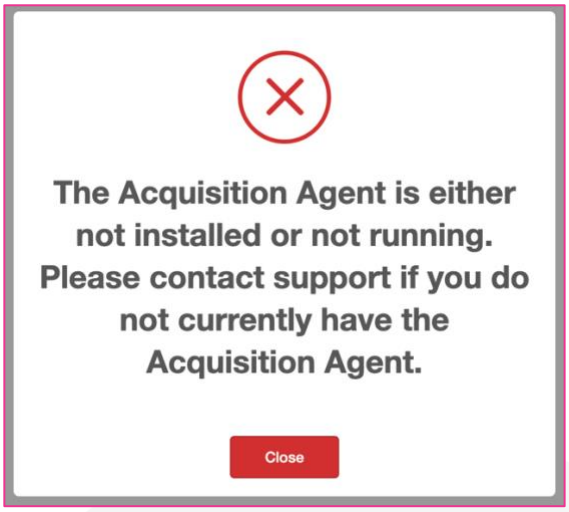
Downloading

To acquire images with Dentally Vision you must have the Acquisition Agent downloaded and installed on the desired machine.

Important - You must install the acquisition agent on each computer that you want to use to acquire images. **ONLY** level 4 users can download the installation files from the '**Sites'** settings page, both the Windows.exe and Mac.pkg file are available for download.



Where the Acquisition Agent is either not installed or not running on the , when selecting the 'Acquire image' button on the patient's chart, the following error message will display.



Installing

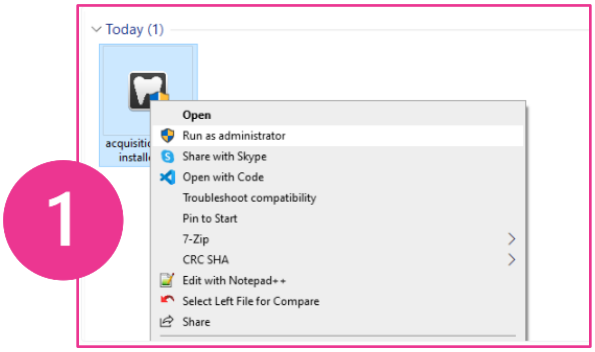
You must install the acquisition agent on each computer that you want to use to acquire images. Complete the steps that correspond to the operating system of the computer that you are installing the acquisition agent on: Windows or Macintosh.

Windows installation

Prior to installing the acquisition agent, verify that the Microsoft .NET 4.0 framework is installed. If .NET 4.0 is not installed, you must install it before you attempt to install the Acquisition Agent.

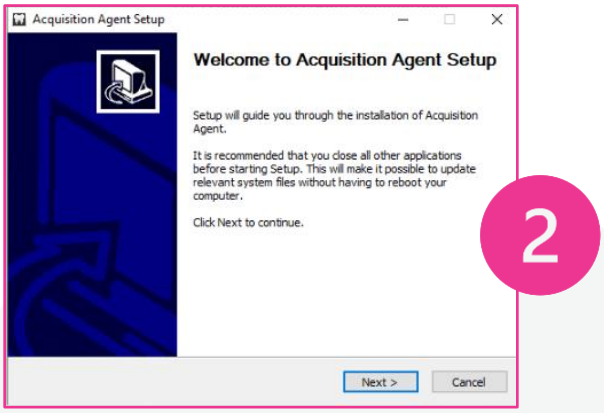
To install the Acquisition Agent:

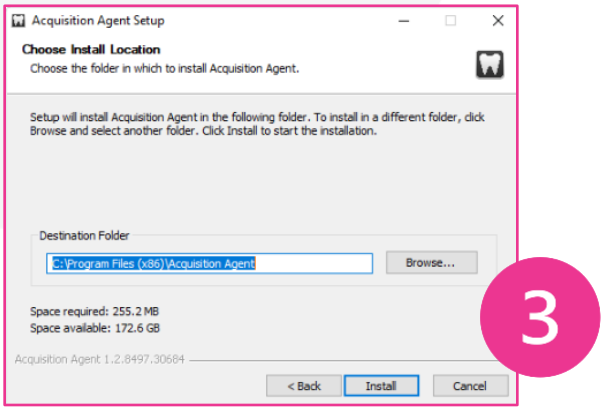
- Right click and Run the Acquisition Agent Installer. Exe as administrator as seen in image



one.

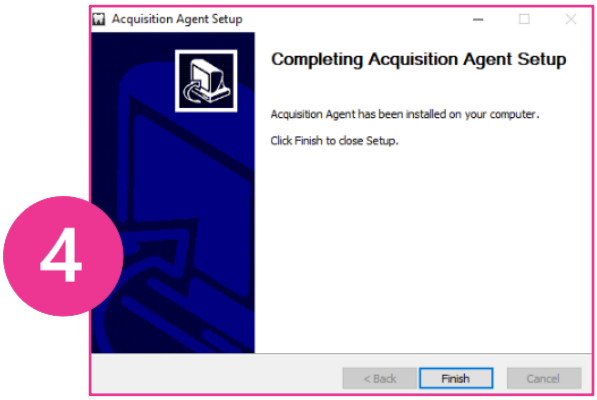
- When prompted, click **Yes** to allow changes to be made to your device.
- On the welcome screen, click **Next**, as seen in image two.
- If prompted, on the **Choose Components** screen, leave **Acquisition Agent** selected, and then click **Next.**





- On the **Choose Install Location** screen as seen in image three, leave the default **Destination Folder** selected, or click **Browse** to select a different location. Then, click **Install**.

- On the completion screen, click (or tap) **Finish**.



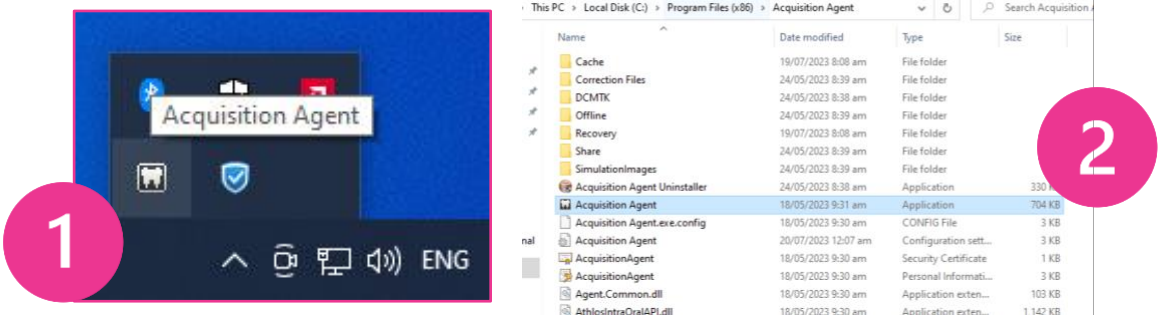
After installing the acquisition agent, you can install the drivers for your acquisition devices and change the default settings of the acquisition agent (even though the defaults should suffice).

Re-starting or re-installing the Acquisition Agent on a Windows machine.

Look in the System Tray on their PC, you should see a small icon of a tooth – this is the Acquisition Agent, as seen in image one.

If this is not there, the Acquisition Agent may need to be restarted - it needs to be running for Dentally Vision to work
You can do this by browsing to: C:\Program Files (x86)\Acquisition Agent.

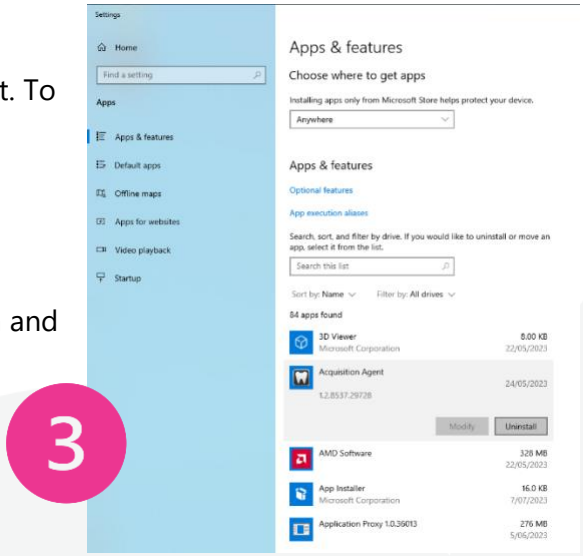
Run the Acquisition Agent Application as shown in image two.



If issues persist, re-install the Acquisition Agent. To do this you will first need to uninstall this from the **Control Panel** as shown in image three.

Restart the computer after uninstalling.

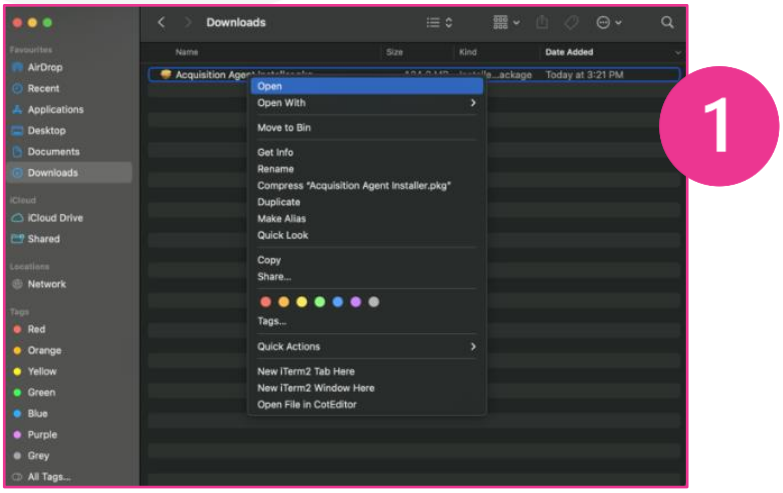
Transfer the Install file from the above location and re-install *(Just clicking next through the whole process)*



Mac installation

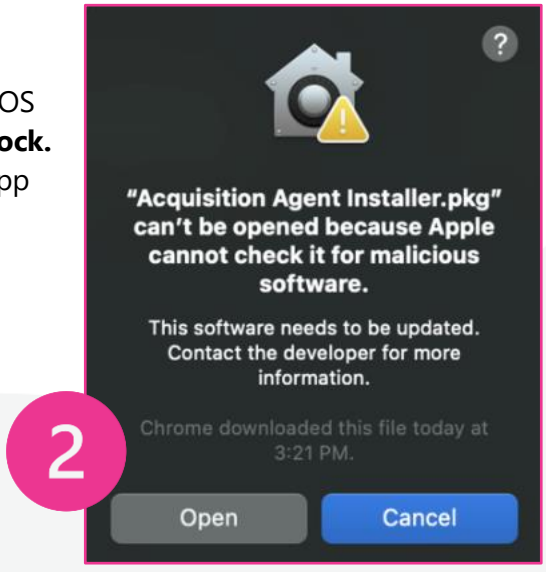
To install the Acquisition Agent:

- Right click and choose open to Run Acquisition Agent Installer.Pkg. As seen below in image one.



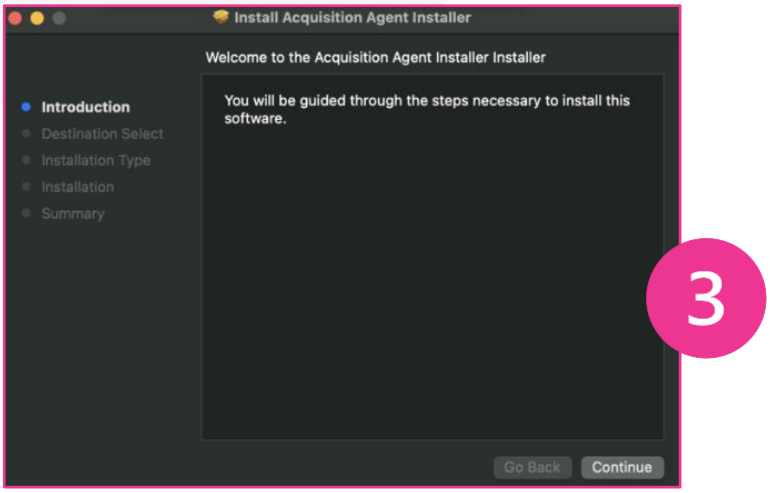
Troubleshooting: If an error with the message "Acquisition Agent Installer.pkg can't be opened because Apple cannot check it for malicious software." Appears like in image two, complete the following steps:

- Select Security & Privacy
- On the **General** tab, click the lock ico.
- If you are prompted to do so, enter your MacOS **Username** and **Password**, and then click **Unlock.**
- Under Allow apps downloaded from, select App Store and identified developers.
    - **Note**: The error message needs to be open to see this option.

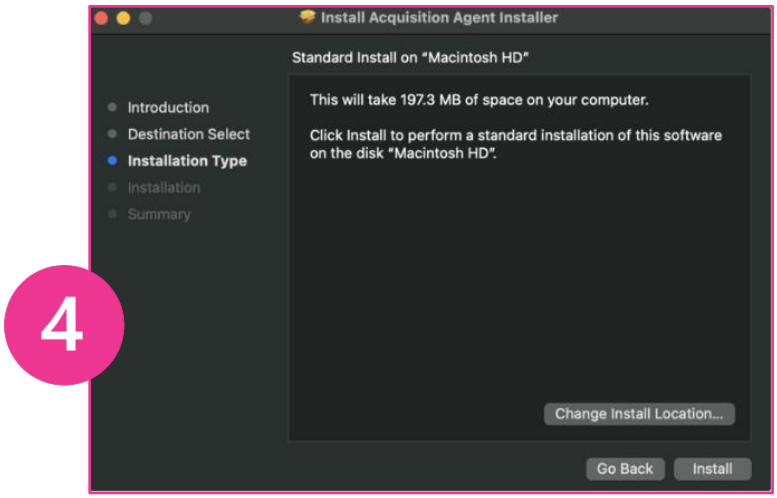


Once these steps have been followed you can go back to your initial error message and carry on installing

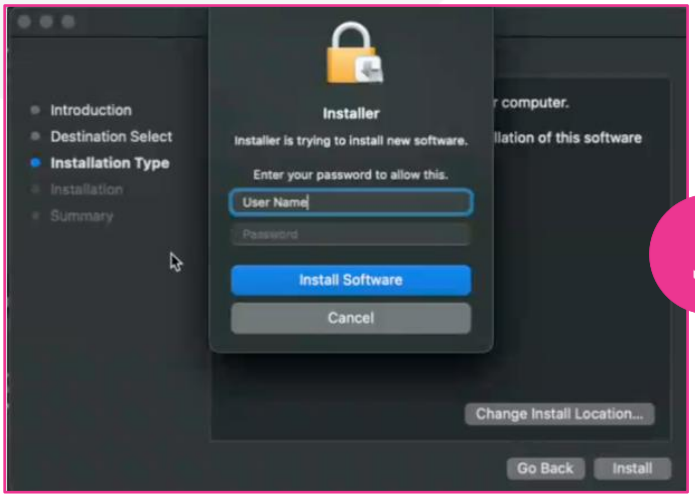
- Click **Open anyway** on your initial error, as seen above in image two, then follow the prompts, and the acquisition agent installer will start.
- On the **Introduction** screen, click **Continue**, as seen in image three.



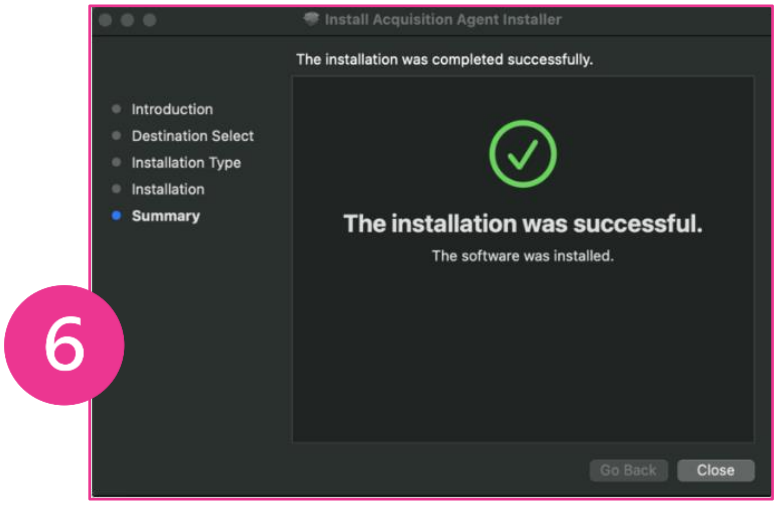
- If the **Destination Select** screen appears, select the disk where you want to install the program. Then, click **Continue**.
- On the Installation Type screen, click Install. As seen in the bottom right of image four.



- If the system prompts you to do so, to allow the installer to install the program, enter your MacOS **Username** and **Password**, and then, click **Install Software**. As seen in image five.

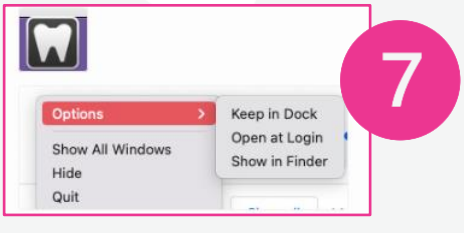


- On the **Summary** screen, click (or tap) **Close**, as seen in image six.



Note: After installation, the acquisition agent starts automatically. The first time the acquisition agent starts, it will need 90-120 seconds to finish its configuration. When acquisition agent icon stops bouncing, the configuration is complete.

- After the initial configuration is complete, right-click the **Acquisition Agent** icon on the dock, point to **Options**, and then select **Open at Login,** ONLY if the option does not already have a check mark next to it, as demonstrated in image seven.



- Restart the computer to finish the required setup.

After installing the acquisition agent, you can install the drivers for your acquisition devices and change the default settings of the acquisition agent (even though the defaults should suffice).
Re-

Re-starting the Acquisition Agent on a Mac

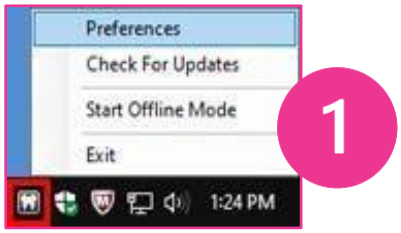
Find the Acquisition Agent in Launchpad and Open it.

Windows Configuration

If you need to change the default settings of the Acquisition Agent (even though the defaults should suffice), after you complete the installation, configure the Acquisition Agent's options as needed.

Complete the steps that correspond to the operating system of the computer that you are configuring the acquisition agent on: Windows or Macintosh. The following instruction will help you understand and configure these settings to your requirements.

To configure the acquisition agent for Windows;

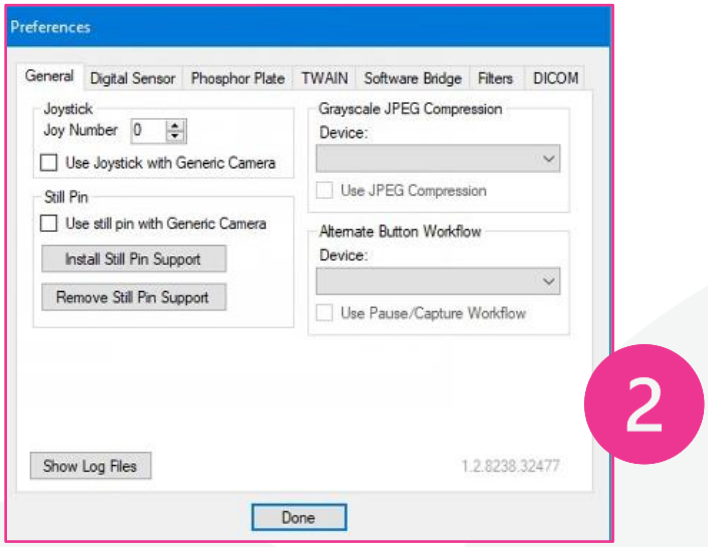


1. Click the **Acquisition Agent** icon in the notification area of the Windows taskbar, and then click **Preferences**. See image one.

The **Preferences** dialog box appears.

2. Set up any of the options on the following tabs as needed…

<u>General – Image two</u>



Joystick

- If you use a "Generic" intraoral camera with a joystick button interface instead of proprietary buttons, select the **Use Joystick with Generic Camera** check box. The camera button will use a specific joystick number. This is typically zero if no other joysticks are installed on the computer. Enter a number from 0 - 10 for **Joy Number**.

Note: If you use a Digital Doc camera, and it has been installed to use a port other than zero, you must specify the appropriate joystick number.

Still Pin

- If you use a "Generic" intraoral camera with a still pin to initiate captures, you must install still pin support for that camera. Make sure that the camera is plugged in and

that all the necessary drivers for that device are installed before you attempt to install still pin support. Click **Install Still Pin Support**, click **OK** on the message that appears, select the camera that you want to install still pin support for, and then press the **Enter** key when the installation is complete.
- The **Use still pin with Generic Camera** check box is selected automatically, but you can clear the check box if at any time you decide that you do not want to use a still pin camera.

Grayscale JPEG Compression

- Dentally Vision can use JPEG lossy compression or PNG lossless compression for grayscale images (intraoral and extraoral X-ray images). To specify the compression method for a device, select that **Device**, and then select or clear the **Use JPEG Compression** check box. By default, this check box is selected for every acquisition device. With this check box selected, Dentally Vision uses a JPEG lossy compression (which has been optimized for grayscale images and uses a Q factor of 96) to obtain near-perfect-quality images. With this check box clear, Dentally Vision uses PNG lossless compression (which may produce larger file sizes and negatively impact the performance of uploading and downloading images).
- The JPEG Q Factor is adjustable between 80 and 99 in the Acquisition Agent INI file under the JPEG Compression section
- Repeat this process as needed for any other devices.

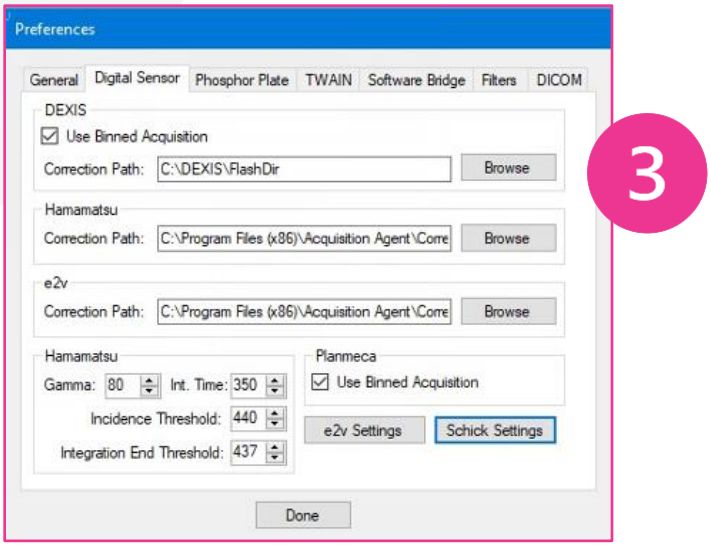
Alternate Button Workflow

- For the following intraoral cameras, you can specify whether you want to use an alternative functionality for the capture button or use the standard functionality: generic cameras, DEXcam 3 and 4 cameras, Sopro cameras, and Digital Doc Iris and Iris HD cameras.
- With the alternative button functionality enabled for a camera, after you push the button once to freeze the video stream, you either push once to capture the image or push twice to not capture it. The standard functionality does not support pushing the button twice to not capture the video frame.
- To specify the button functionality for a camera, select that **Device**, and then select or clear the **Use Pause/Capture Workflow** check box. Repeat this as needed for any other devices.

Show Log Files

- The acquisition agent logs actions that it performs for debugging, troubleshooting, and performance monitoring. To view the log, click (or tap) **Show Log Files**.

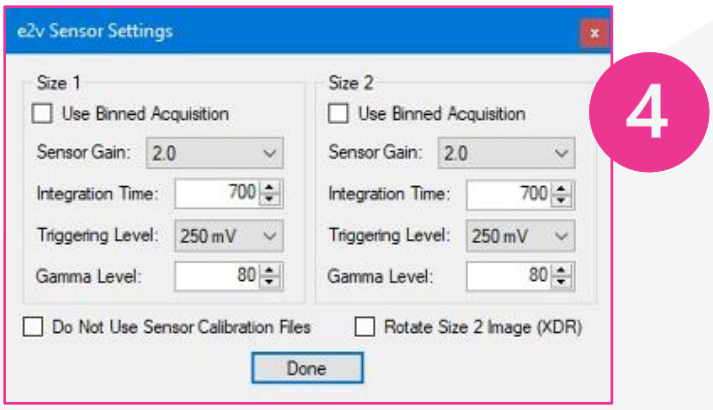
Digital Sensor – Image three



- **DEXIS Use Binned Acquisition** - In the Dexis imaging software (versions 9 and 10), "binned" is the default operating mode for Dexis sensors, so this check box is selected by default for Dentally Vision .
- **DEXIS Correction Path** - This is the location of the calibration files for Dexis sensors. The default is C:\Dexis\Flashdir.
- **Hamamatsu - Correction Path** - This is the location of the calibration files for Hamamatsu sensors. The default is C:\Program Files (x86)\Acquisition Agent\Correction Files.
- **e2v - Correction Path** - This is the location of the calibration files for e2v sensors. The default is C:\Program Files (x86)\Acquisition Agent\Correction Files.
- **Hamamatsu -** The **Gamma** correction value defines the relationship between a pixel's numerical value and its actual luminance; use it to redistribute the tonal levels of a raw image to be closer to how human eyes perceive them (on a standard monitor).
- The **Integration Time**, **Incidence Threshold**, and **Integration End Threshold** options determine how Dentally Vision controls the integration timing and triggering of sensors. You may want to change these settings if, for example, you use a low-dose, portable X-ray machine
- **Planmeca -** For Planmeca sensors, "binned" is the default operating mode, so the **Use Binned Acquisition** check box is selected by default for Dentally Vision

e2v Settings – Image four

Click the button to configure the following settings for e2v sensor.

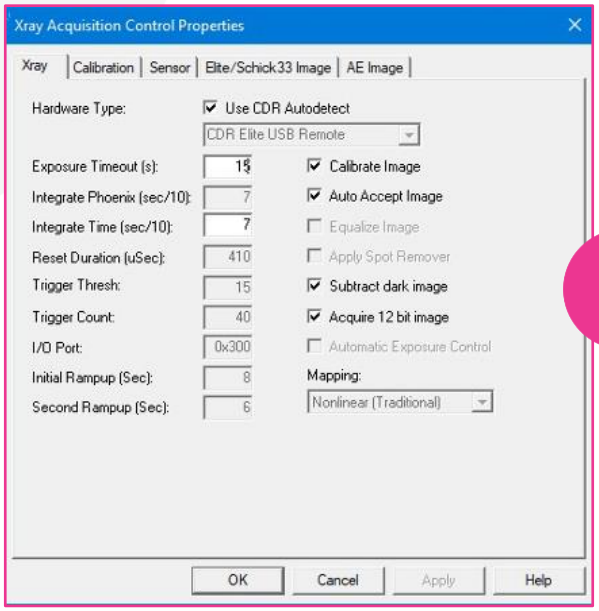


Size 1 & Size 2 - Configure the settings for size 1 sensors separately from those of size 2 sensors:

- **Use Binned Acquisition** - Controls whether "binned" operating mode is on or off.
- **Sensor Gain** - Controls the output signal strength from sensors.

- **Integration Time** - Determines how Dentally Vision controls the integration timing of sensors. You may want to change this if, for example, you use a low-dose, portable X-ray machine.
- **Triggering Level** - Determines how Dentally Vision controls the triggering of sensors. You may want to change this if, for example, you use a low-dose, portable X-ray machine.
- **Gamma Level** - Defines the relationship between a pixel's numerical value and its actual luminance; use it to redistribute the tonal levels of a raw image to be closer to how human eyes perceive them (on a standard monitor).
- **Do Not Use Sensor Calibration Files** - Controls whether the sensor calibration files are used or not.
- **Rotate Size 2 Image (XDR)** - Controls whether images that are captured using size 2 sensors are rotated or not.
- **Schick Settings** - Click the button to configure the following settings for Schick sensors:

Xray- Image five



The availability of these options may vary.

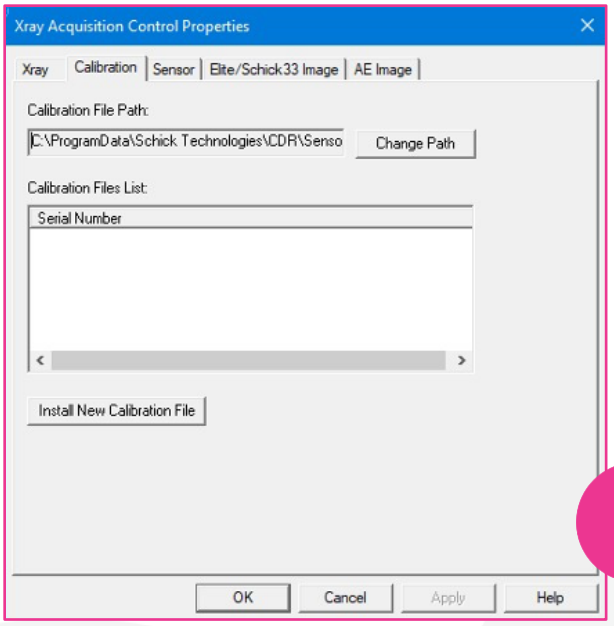
- **Hardware Type** – To automatically detect and select either the sensor that is currently connected or the sensor that was most recently connected, select the
- **Use CDR Autodetect** check box. To manually select the sensor, clear the **Use CDR Autodetect** check box, and then select the correct device from the list of recognized devices.
- **Exposure Timeout** - Controls the amount of time *(in seconds)* to wait for exposure before timing out. This applies only if the "Autodetect" acquisition mode is off.
- **Integrate Phoenix** - Displays the amount of time *(in tenths of a second)* that an APS sensor will spend in "integrate" mode.
- **Integrate Time** - Controls the amount of time *(in tenths of a second)* that an image is accumulated.
- **Reset Duration** - Displays the amount of time *(in milliseconds)* that an APS sensor will spend between triggering and acquisition
- **Trigger Thresh** - Indicates the threshold when an image has been acquired *(also called AUTO_THRESH)*.
- **Trigger Count** - Indicates the count when an image has been acquired *(also called AUTO_COUNT*).
- **IO Port** - Displays the I/O address that was used by the interface board of previous sensors.
- **Initial Rampup** - Displays the time *(in seconds*) that is required by the sensor before the first X-ray exposure
- **Second Rampup** - Displays the time *(in seconds*) that is required by the sensor after the first X- ray exposure and between subsequent exposures
- **Use Perfect Shot** - *(If available)* Indicates that a filter to correct slightly under- and over-exposed images and to display changes in tooth density will be applied automatically.
- **Calibrate Image** - With this check box selected, the calibration file for the connected sensor is used. With this check box clear, the calibration file, which is unique to the sensor, is not used, which may result in artifacts that would be otherwise removed on captured images.
- **Auto Accept Image** - With this check box selected, the Accept / Reject / Retake window does not open, and the acquired image is presented in the Exam or Zoom

window, depending on other user options. With this check box clear, the Accept / Reject / Retake window does open. This applies only if the "AutoTake" acquisition mode is off.

- **Equalize Image** - Indicates that images will be equalized automatically
- **Apply Spot Remover** - Indicates that a function to eliminate random noise artifacts in images will be applied automatically
- **Subtract dark image** - Controls whether subtraction will be used to eliminate noise caused by the sensor's dark signal or not.
- **Acquire 12 bit image** - With this check box selected, images will be acquired using the entire 12- bit grayscale range (which is recommended for the DICOM image format). With this check box clear, images will be acquired using an 8-bit grayscale
- **Automatic Exposure Control** - Indicates that slightly under- or over-exposed images will be corrected automatically. This applies whenever the Perfect Shot filter is applied
- **Mapping** - Indicates that a particular mapping will be applied to show more image detail: **Nonlinear (Traditional)**, in mid-range pixel values; **Arcsine**, in upper and lower pixel values; or **Linear**, when pixel values are mapped exactly to the image values that can be displayed.

Calibration – Image six

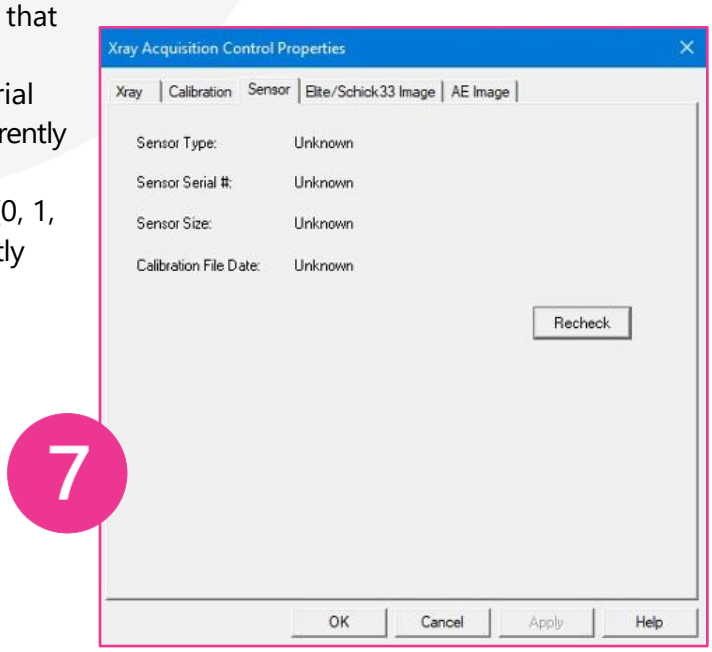
- **Calibration File Path –** The default path where the calibration files are located. To change the **Calibration**: path, click **Change Path**, select a folder, and then click **OK**.
- **Calibration File List** - The calibration files that are available on the computer.
- To Install a new calibration file, click **Install New Calibration File**, locate and select the correct calibration file (a .cor file), and then click **Open**



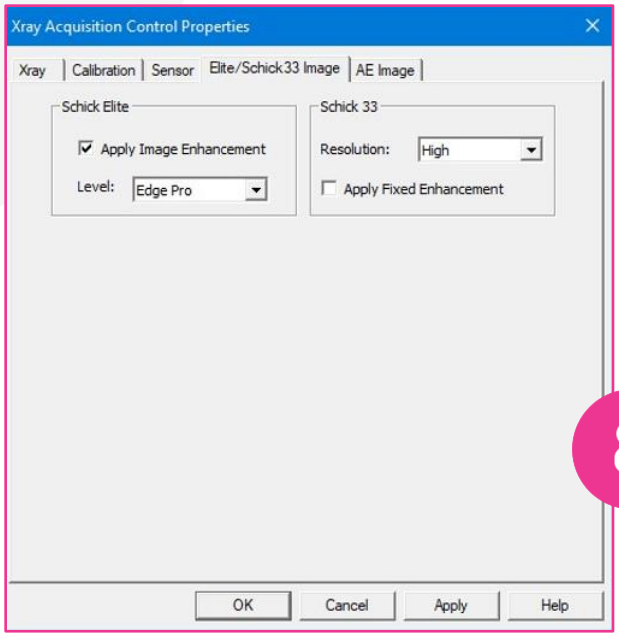
Sensor – Image seven

- **Sensor Type:** The type of sensor that is currently connected
- **Sensor Serial #:** Displays the serial number of the sensor that is currently connected
- **Sensor Size** - Displays the size (0, 1, or 2) of the sensor that is currently connected

Note: To refresh the sensor type, serial number, and size, click the **Recheck** button.



Elite/Schick 33 Image – Image 8



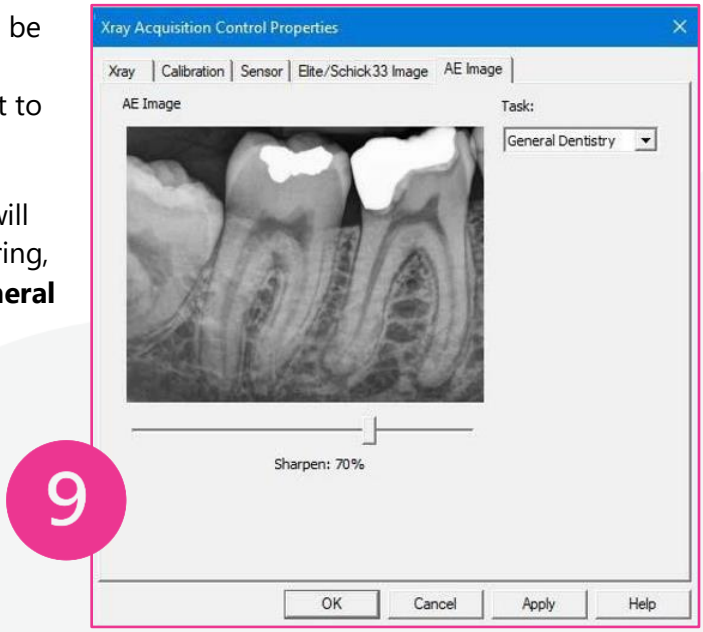
Schick Elite – Controls whether enhancements will be applied automatically to images that are captured using Schick Elite sensors.

- To have enhancements be applied, select the **Apply Image Enhancement** check box, and then select a level of enhancement from the **Level** list: **Edge High**, **Edge Low**, **Edge Pro**, or **Smooth**. To not have enhancements be applied, clear the check box

Schick 33 - Controls the resolution of images that are captured using Schick 33 sensors and whether an enhancement is applied or not. Set up the following options:

- **Resolution** - From the list select a resolution: High, to acquire images in unbinned mode (15 microns/pixel) with a practical resolution of 28 lp/mm (line pairs per millimeter); or Standard, to acquire images in binned mode (30 microns/pixel) with a practical resolution of approximately 24 lp/mm.
- **Apply Fixed Enhancement** - Controls whether the enhancement will be applied or not.

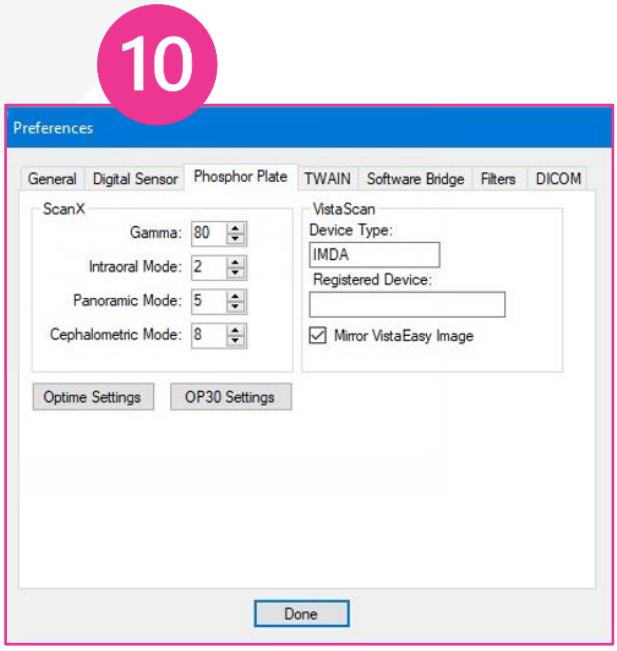
AE Image – Image 9



To control the level of sharpening that will be applied to images for the various types of filtering, move the slider to the left or right to decrease or increase the percentage.

To see how the specified sharpness level will affect images for the various types of filtering, from the **Task** list, select each option (**General Dentistry**, **Endodontic**, **Restorative**, and **Periodontic**) in turn.

Phosphor Plate – Image 10

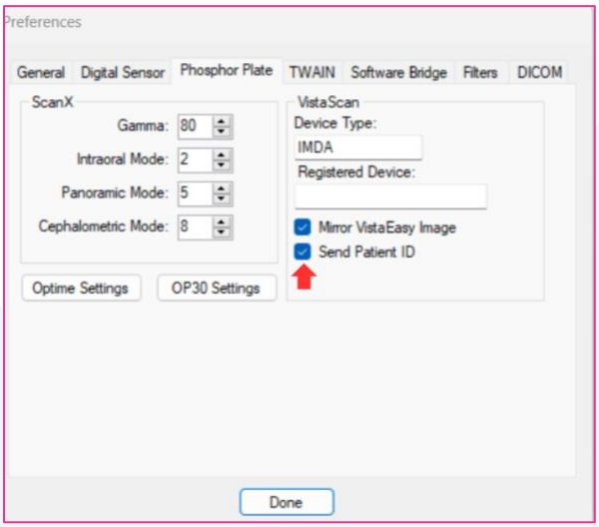


ScanX - These are filters to use with a ScanX phosphor plate scanner.

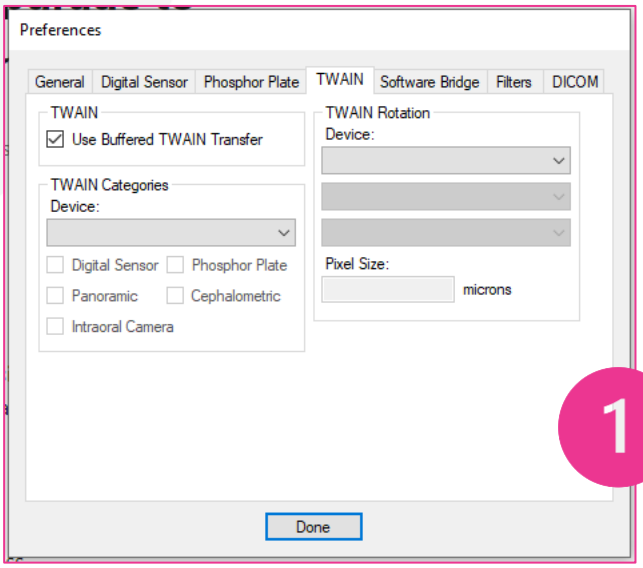
- The **Gamma** correction value defines the relationship between a pixel's numerical value and its actual luminance; use it to redistribute the tonal levels of a raw image to be closer to how human eyes perceive them (on a standard monitor).
- The **Intraoral Mode**, **Panoramic Mode**, and **Cephalometric Mode** values indicate the scanning modes being used for intraoral, panoramic, and cephalometric images, respectively. The mode affects image resolution.
- **Optime Settings** - Click (or tap) the button to configure the IAM settings for an Optime scanner. **OP30 Settings** - Click (or tap) the button to configure the IAM settings for an OP30 scanner.

VistaScan

- The **Device Type** (the default is IMDA)
- The **Registered Device** of a VistaScan scanner. You can leave the **Registered Device** box blank to use the first device found that matches the specified type.
- Also, depending on the scanner model and how plates are inserted, you may need to allow Dentally Vision to rotate, mirror, or flip images as they are placed into templates; if you need to allow this functionality, select the **Mirror VistaEasy Image** check box.
- You can set whether to send the patient ID in the job file. The option to turn this on/off can be found in the Acquisition Agent Preferences on the Phosphor Plate tab in the VistaScan section. This will be ticked by default to send the patient ID.

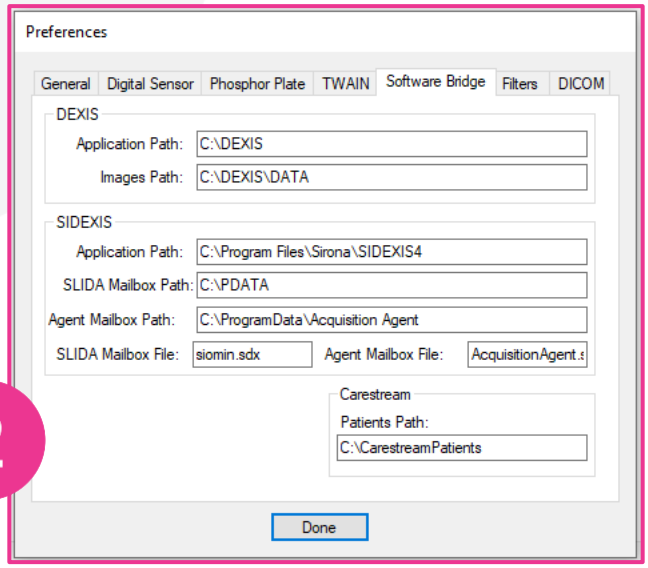


TWAIN – Image one



- **TWAIN -** The **Use Buffered TWAIN Transfer** option is selected by default as the transfer method for images from acquisition devices that use a TWAIN driver. If there are issues with TWAIN sources delivering images properly to the acquisition agent, clear this check box to use the native transfer mode, which some TWAIN sources require or recommend.
- **TWAIN Categories** - For each TWAIN source, you can specify the applicable acquisition types. Select a TWAIN source from the **Device** list, and then select the applicable acquisition types (**Digital Sensor** or **Phosphor Plate**, **Panoramic**, **Cephalometric**, and/or **Intraoral Camera**). The selected TWAIN source will only be available for selection in the device list when someone is acquiring images for one of the selected acquisition types. Repeat this as needed for any other TWAIN sources
- **TWAIN Rotation -** For each TWAIN source, you can specify the default orientation (rotation and/or flip) to apply to images by acquisition type prior to those images being delivered to Dentally Vision .
- Select a TWAIN source from the **Device** list, select an acquisition type (**Digital Sensor**, **Phosphor Plate**, **Panoramic**, **Cephalometric**, or **Intraoral Camera**) from the second list, and then select an orientation option (**No Rotation**, **Rotate 90**, **Rotate 180**, **Rotate 270**, **Mirror**, **Rotate 90 + Mirror**, **Flip**, or **Rotate 90 + Flip**) from the third list. Repeat this as needed for any other TWAIN sources
- **TWAIN Device Pixel Size:** Users can set the pixel size (in microns) for each TWAIN device if it is known. Then this pixel size will be used by the measure tool in Dentally Vision - avoiding the need to calibrate the measure tool each time.

Software Bridge – Image two



DEXIS - If someone selects the Dexis software bridge from the device list when acquiring an image.

- The **Application Path** (where the Dexis software is installed; the default is C:\DEXIS)
- The **Images Path** (where the Dexis software stores images; the default is C:\DEXIS\DATA) must be correct, so Dentally Vision can open the Dexis software and have bi-directional communication with it.

The Dexis software must be installed to use this software bridge

SIDEXIS - If someone selects the Sidexis software bridge from the device list when acquiring an image, the **Application Path** (where the Sidexis software is installed; the default is C:\Program Files\Sirona\SIDEXIS4)

- The **SLIDA Mailbox Path** (the location of the SLIDA mailbox file; the default is C:\PDATA)
- The **Agent Mailbox Path** (the location of the Dentally Vision mailbox file; the default is C:\ProgramData\Acquisition Agent)
- The **SLIDA Mailbox File** name (the default is siomin.sdx)
- The Agent **Mailbox File** name (the default is Acquisitionagent.sdx) the must be correct, so Dentally Vision can open the Sidexis software and have bi-directional communication with it.

The Sidexis software must be installed to use this software bridge

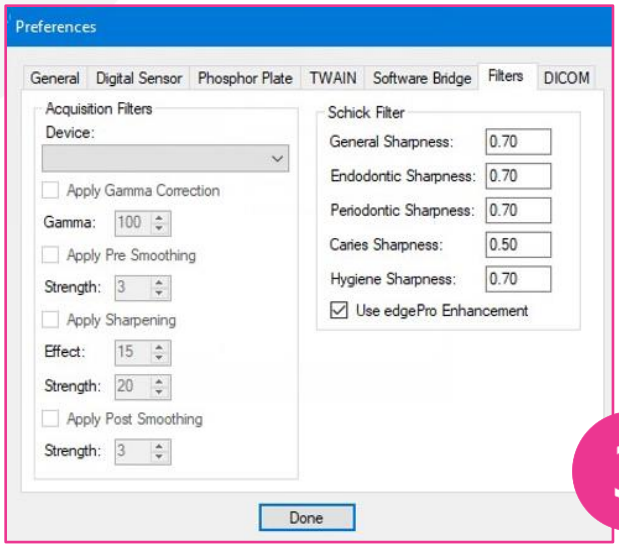
Romexis - You can specify whether Dentally Vision imports the STL model file or not if someone selects the Romexis software bridge from the device list when acquiring a 3D model.

- With the **Import STL Models** check box selected, Dentally Vision will import the STL model file. This allows for rotating and zooming of the 3D model in Dentally Vision.
- With the **Import STL Models** check box clear, Dentally Vision will import a 2D snapshot image of the 3D model. The Romexis software must be installed to use this software bridge.

Note: Because Dentally Vision cannot do all the things that a CAD/CAM software can do, whether or not you import the STL model file, you must do the ground design and editing of the 3D model in the Romexis software. If you do not care about having the STL model file

uploaded to Dentally Vision for backup, disaster recovery, or sharing purposes, you may want only the minimal viewing capabilities of a 2D image in Dentally Vision.

Filters – Image three



Acquisition Filters - For each acquisition device, you can specify a set of filters to apply to images to fine tune those images more than what Dentally Vision does by default. Select a **Device**, and then set up the following filters as needed:

- **Apply Gamma Correction** - To customize this filter, select the check box, and then enter the amount of **Gamma** correction. The gamma correction value defines the relationship between a pixel's numerical value and its actual luminance; use it to redistribute the tonal levels of a raw image to be closer to how human eyes perceive them (on a standard monitor).
- **Apply Pre Smoothing** - To customize this filter, select the check box, and then enter the **Strength** of the smoothing effect.
- **Apply Sharpening** - To customize this filter, select the check box, and then enter the **Effect** and the **Strength** of the sharpening effect.
- **Apply Post Smoothing** - To customize this filter, select the check box, and then enter the **Strength** of the smoothing effect after the sharpening filter is applied. The **Apply Post Smoothing** check box is available only if the **Apply Sharpening** check box is selected.
- Repeat this as needed for any other devices.

Schick Filter - You can specify the following types of sharpness adjustments to apply to an image that is acquired with a Schick device, according to the type of image that is acquired:

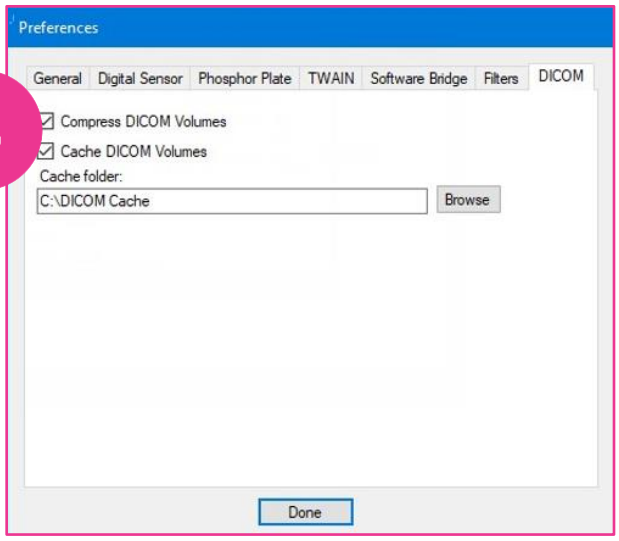
- General Sharpness
- Endodontic Sharpness
- Periodontic Sharpness
- Caries Sharpness
- Hygiene Sharpness.

Note: Filters are not applied by default for Vistascan, TWAIN and PSPIX devices

DICOM – Image four

Note: DICOM support allows you to acquire a 3D volume using CBCT (cone-beam computed tomography) through a supported third-party imaging program, view and annotate a 3D volume in Dentally Vision, and either download a 3D volume or export a 3D volume to a supported third-party program.

- Compress DICOM VolumesControls whether 3D volumes are compressed or not.
- Cache DICOM Volumes - Controls whether 3D volumes will be cached locally or not.
- With this check box selected, in the **Cache folder** box, either enter the path to the folder where you want to store cached 3D volumes, or click (or tap) **Browse** to select the correct folder.
- Click **Done**



Mac Configuration

If you need to change the default settings of the Acquisition Agent (even though the defaults should suffice), after you complete the installation, configure the Acquisition Agent's options as needed.

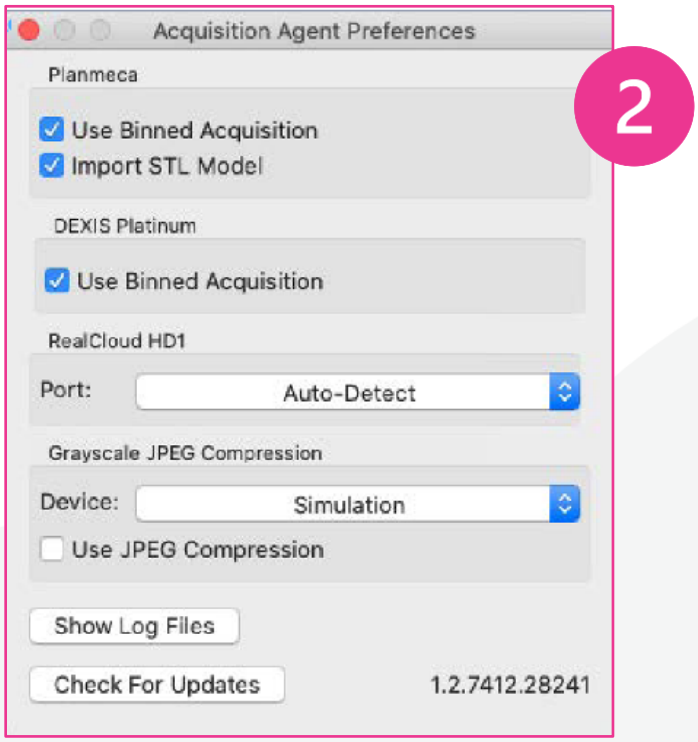
Complete the steps that correspond to the operating system of the computer that you are configuring the acquisition agent on: Windows or Macintosh. The following instruction will help you understand and configure these settings to your requirements.

- Click the **Acquisition Agent** icon in the dock.
- From the Acquisition Agent menu, click Preferences. As seen in image one.
- The Acquisition Agent Preferences dialog box appears as seen in image two.

Preferences

Set up any of the following options in the Acquisition Agent Preferences menu as needed:

Planmeca



- **Use Binned Acquisition** - For Planmeca sensors, "binned" is the default operating mode, so this check box is selected by default for Dentally Vision.

- **Import STL Model** - You can specify whether Dentally Vision imports the STL model file or not if someone selects the Romexis software bridge from the device list when acquiring a 3D model. With the **Import STL Model** check box selected, Dentally Vision will import the STL model file. This allows for rotating and zooming of the 3D model in Dentally Vision . With the **Import STL Model** check box clear, Dentally Vision will import a 2D snapshot image of the 3D model. The Romexis software must be installed to use this software bridge.

Note: Because Dentally Vision cannot do all the things that a CAD/CAM software can do, whether or not you import the STL model file, you must do the ground design and editing of the 3D model in the Romexis software. If you do not care about having the STL model file uploaded to Dentally Vision for backup, disaster recovery, or sharing purposes, you may want only the minimal viewing capabilities of a 2D image in Dentally Vision .

DEXIS Platinum

- For DEXIS Platinum sensors, "binned" is the default operating mode for direct integration, so the **Use Binned Acquisition** check box is selected by default for Dentally Vision .

RealCloud HD1

- Dentally Vision can automatically detect the port that the RealCloud HD1 intraoral camera is using so the buttons function properly, or you can specify a port. By default, **Auto-Detect** is selected as the **Port**.

Grayscale JPEG Compression

- Dentally Vision can use JPEG lossy compression or PNG lossless compression for grayscale images (intraoral and extraoral X-ray images).
- To specify the compression method for a device, select that **Device**, and then select or clear the **Use JPEG Compression** check box. By default, this check box is selected for every acquisition device. With this check box selected, Dentally Vision uses a JPEG lossy compression (which has been optimized for grayscale images and uses a Q factor of 96) to obtain near-perfect-quality images. With this check box clear, Dentally Vision uses PNG lossless compression (which may produce larger file sizes and negatively impact the performance of uploading and downloading images). Repeat this process as needed for any other devices

Show Log Files

- The acquisition agent logs actions that it performs for debugging, troubleshooting, and performance monitoring. To view the log, click **Show Log Files**
- Close the dialog box.

Updating the acquisition agent

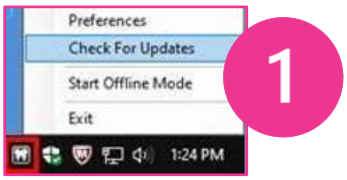
The Acquisition Agent is a small application that runs in the background and handles the communication between your acquisition devices and Dentally Vision.

To benefit from the latest enhancements of Dentally Vision, you should verify that you have the most recent version of the acquisition agent installed on each computer that you want to acquire images from.

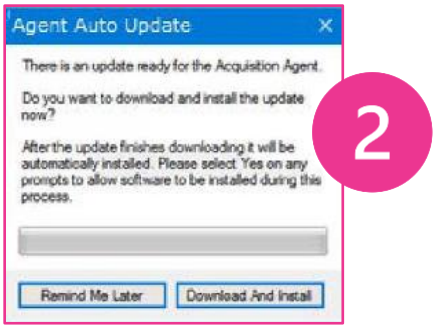
Note: Before attempting to update the Acquisition Agent, you should be logged on to your operating system (Windows or Macintosh) as a local administrator (not as a domain administrator).

Update the acquisition agent on Windows

- Click the **Acquisition Agent** icon in the notification area of the Windows taskbar, and then click **Check For Updates**. *(Image one on right)*
- If an update is available, the **Agent Auto Update** dialog box appears. *(Image two on right)*



- Click **Download and Install.**

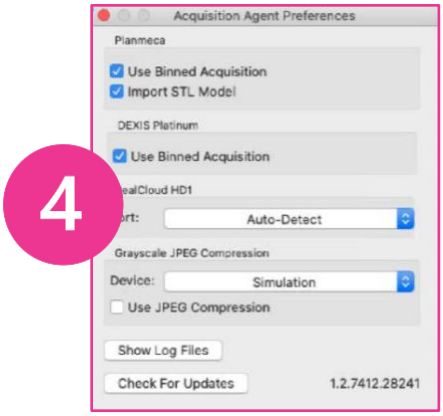


- Follow the instructions in the **Acquisition Agent Setup** to complete the upgrade.

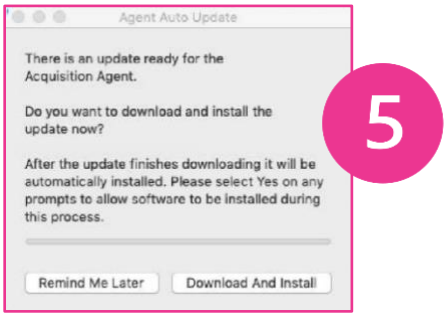
Update the acquisition agent on Mac

- Make sure the **Acquisition Agent** is installed.
- Click the **Acquisition Agent** icon on the dock.
- From the Acquisition Agent menu, click Preferences. See image three.

- The Acquisition Agent Preferences box appears. See image four.
- Click **Check for Updates.**



- If an update is available, the Agent Auto Update dialog box appears.
- Click **Download and Install.** See image five.



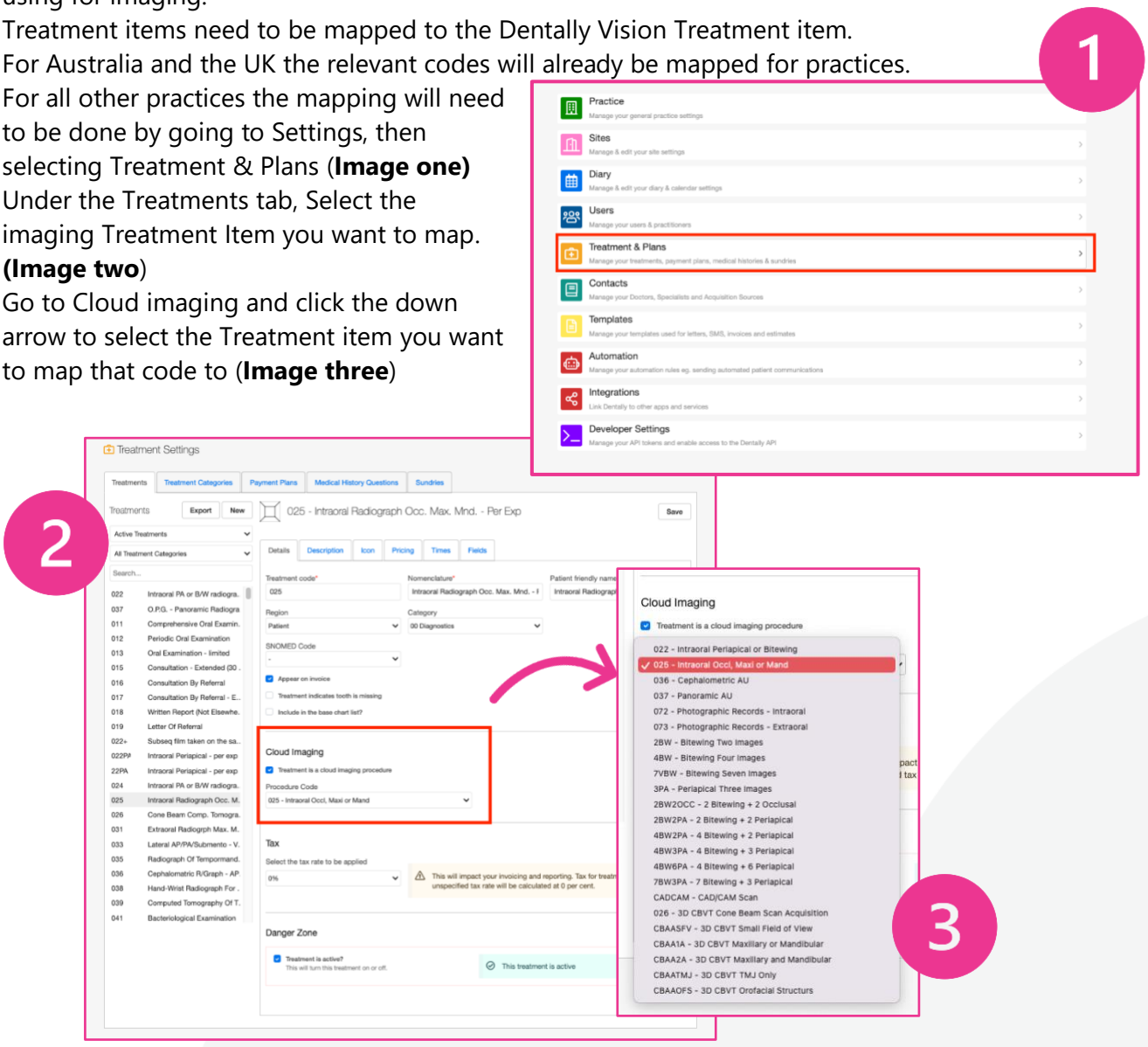
- Follow the instructions in the Acquisition Agent Setup to complete the upgrade.

Acquiring images

You can acquire images with sensors, phosphor plates, cameras, other digital equipment, and third-party programs. You can also import image files (such as .png or .jpg files). The acquired or imported images are saved to a selected patient's record in Dentally Vision.

Dentally Set Up

- Dentally Vision **must** be enabled for your practice by the Dentally Support Team.
- The latest Acquisition Agent needs to be installed on each computer linked you will be using for imaging.
- Treatment items need to be mapped to the Dentally Vision Treatment item.
- For Australia and the UK the relevant codes will already be mapped for practices.
- For all other practices the mapping will need to be done by going to Settings, then selecting Treatment & Plans (**Image one)**
- Under the Treatments tab, Select the imaging Treatment Item you want to map. **(Image two**)
- Go to Cloud imaging and click the down arrow to select the Treatment item you want to map that code to (**Image three**)



Acquiring Images in Dentally

Images can be acquired in one of 2 ways:

- Charting the treatment item first.
- Acquiring the image first.

Auto Proceed - You can now enable an **auto-proceed** option to speed up image capture. When ticked, your acquisition will start automatically after selecting a procedure – with no need to click an extra button.

UK users please note: When using the auto-proceed option, be sure to either add your justification **before** selecting the desired procedure, or **after** the acquisition is complete.

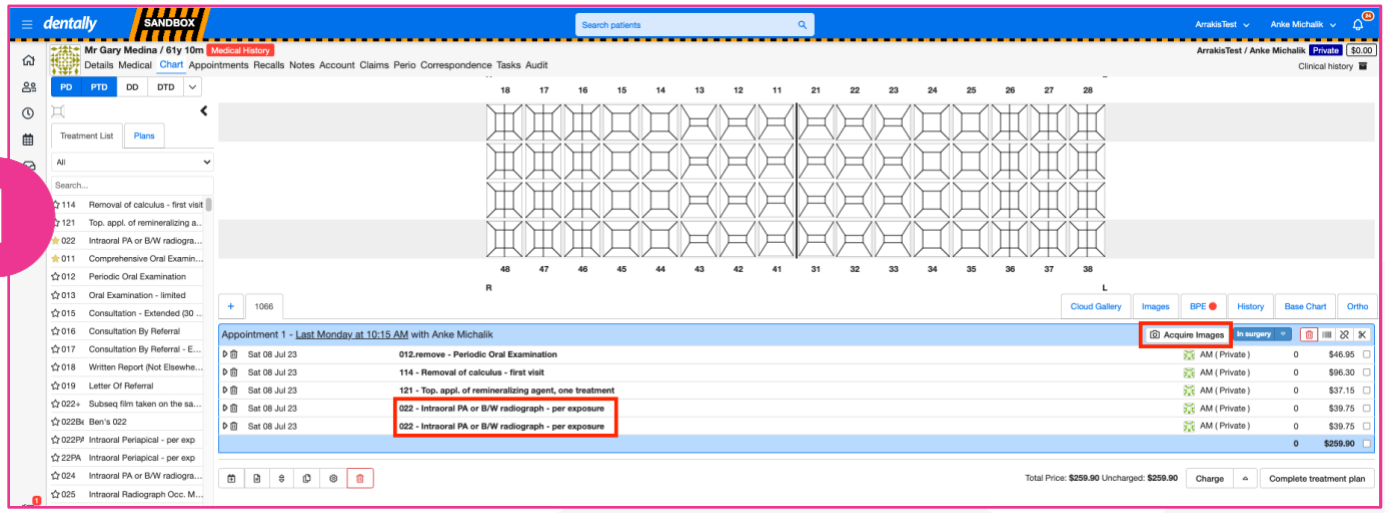
Instruction for Charting the treatment item first

In Dentally, select the patient and go to chart as you would usually do.

- Chart the treatment items as normal and include the relevant imaging treatment codes.

NOTE: The Treatment items will be specific per country

- Select **Acquire Image** to launch Dentally Vision (highlighted below on the right).

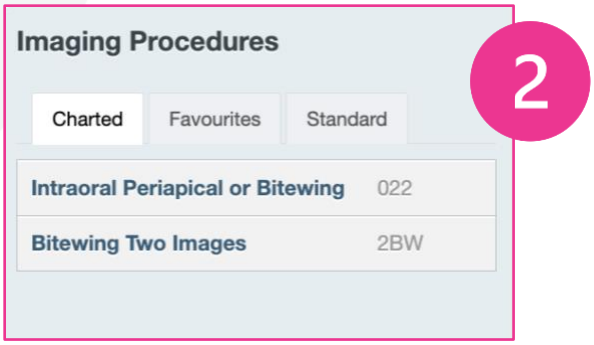


- Dentally Vision will launch showing the charted items in the **Charted tab**

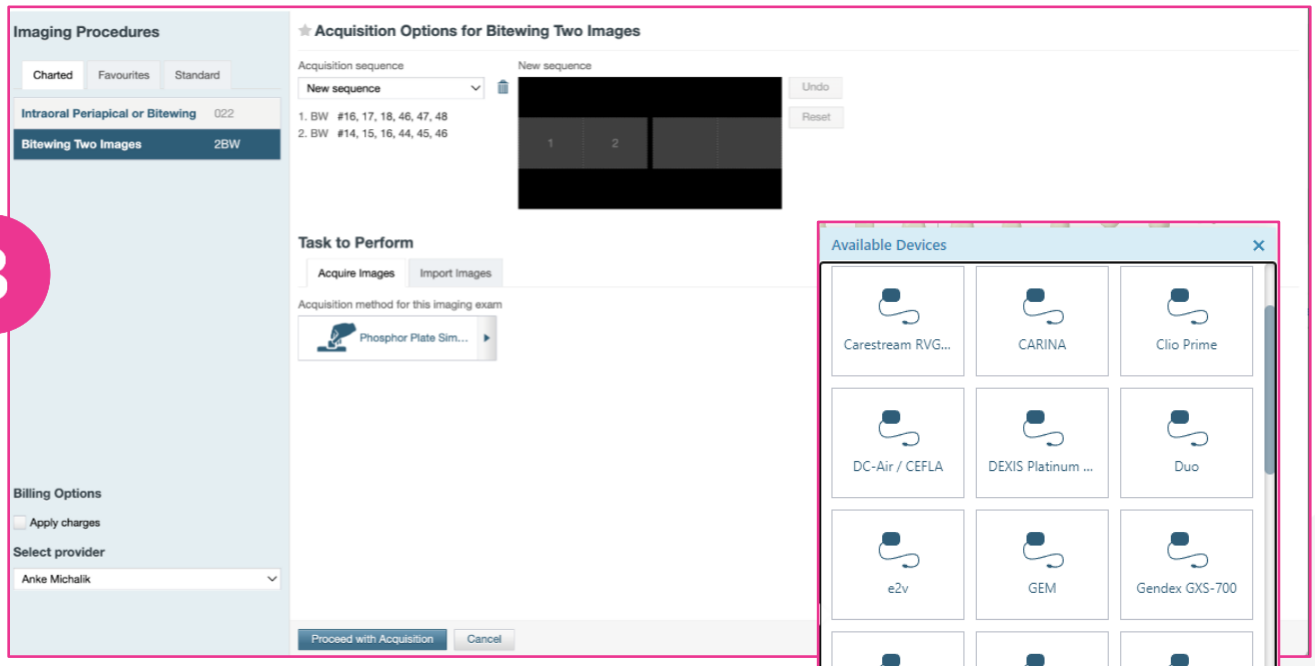
NOTE – details of the other tabs in image two….

Favourites - This tab contains the imaging procedures for the current location that have been marked as favourites. This tab is available only if there are favourite imaging procedures for the current location.

Standard - This tab contains the standard imaging procedures that come with Dentally Vision . This tab is available for all locations.



- Clicking on the Treatment item in **Charted** will launch the Acquisition options for that selection as shown in image three below.

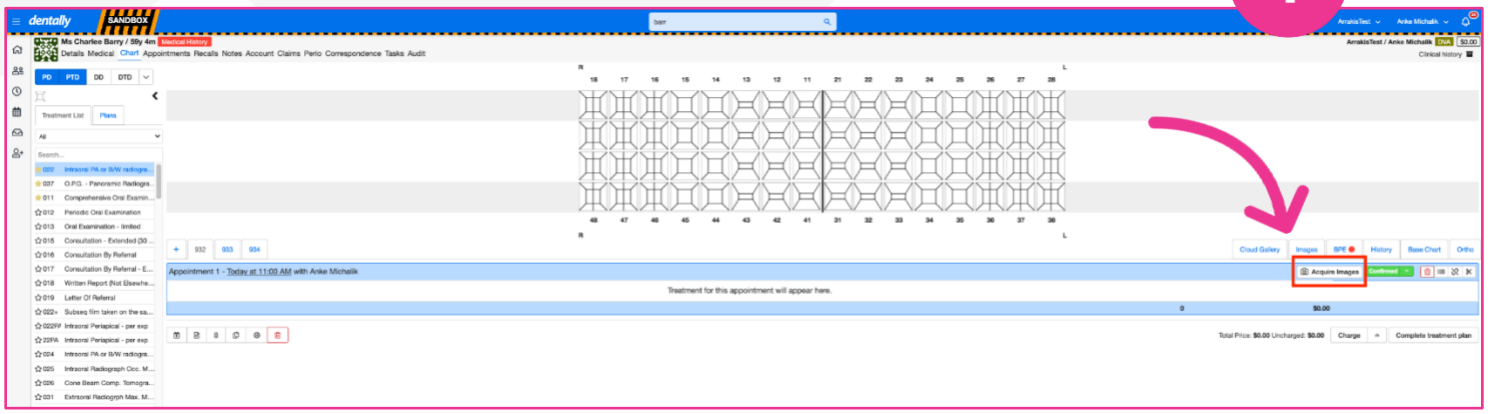


- When choosing your acquisition agent your available devices will show in alphabetical order for you to choose from.

Please note - Whitelisting of devices is available so that only the devices you use show in the available devices list. This requires a devices.txt file to be uploaded. Please contact support for assistance with this.

Instruction for Acquiring the Image first

From the Chart, simply click the **Acquire Images** button to launch Dentally Vision



Imaging Procedures

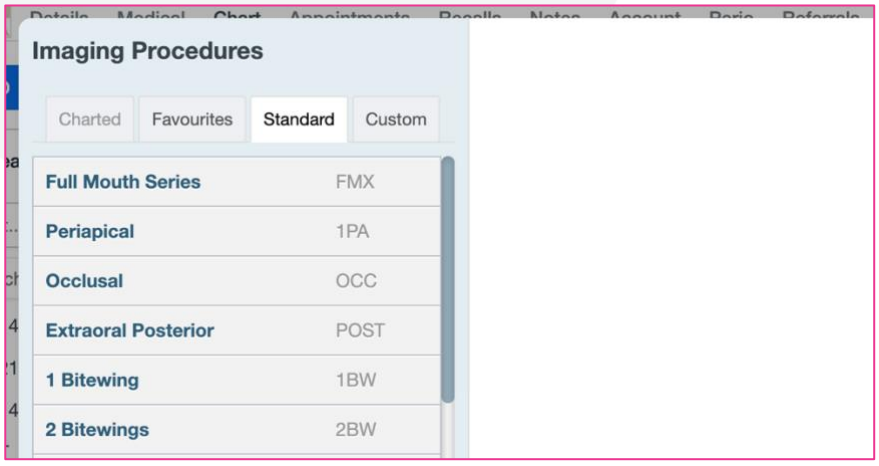
Under **Imaging Procedures**, select one of the following tabs:

- **Charted** – This tab contains items that have been charted in Dentally first. This tab is the default only if there are procedures that have already been charted.

- **Favourites** - This tab contains the imaging procedures for the current location that have been marked as favourites. This tab is available only if there are favourite imaging procedures for the current location. If there are favourite imaging procedures for the current location, this tab is selected by default if no treatment has been charted,

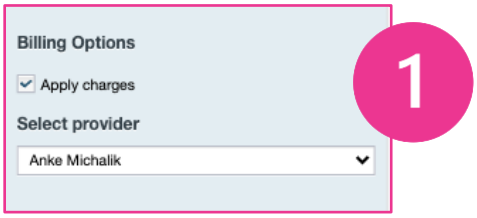
- **Standard** - This tab contains the standard imaging procedures that come with Dentally Vision .

  This tab is available for all locations. If there are not any favourite imaging procedures for the current location, this tab is selected by default.



Billing Options

Each procedure will have a billing option and a provider.



Under Billing Options you will have the following settings as seen in image one:

Apply charges – The checkbox will be selected by default which will apply charges to a selected procedure. To apply a zero amount for the procedure, clear the check box.

Select Provider - The provider will default as follows depending on the acquisition method :

- Charted practitioner - relevant to the **Chart First** option
- Patient default practitioner (dentist then hygienist) relevant to the **Acquire Image First** option
- Logged in user if they are a practitioner.
- Any other practitioner

To manually change the provider, select the provider from the drop down who you want to associate with the procedure.

Note: For multisite practices, only providers who have access to the current location are available for selection.

Image Types

You can acquire or import the following types of images:

- Intraoral X-rays
- Intraoral and extraoral photos
- Extraoral X-rays

- CAD/CAM scans
- 3D volume

Disaster recovery: A feature available to Dentally Vision is the option to Recover images, this option will present itself if an image fails to upload to the patient record.

Click **Recover Images** to begin the recovery process. This option is available for all Acquisition methods.

Note: Radiation from an X-ray source causes the phosphor plate to capture the image, and this is controlled by someone triggering the X-ray source.

The Dentally Vision program does not directly control the X-ray source or exposure settings.

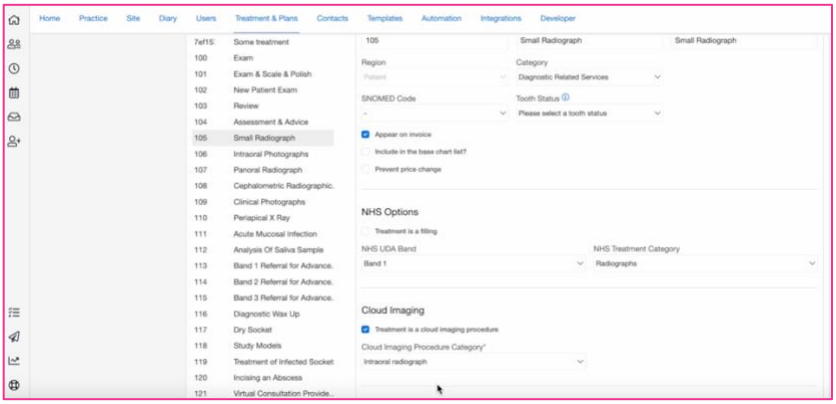
Adding and Using Custom Procedures

Create tailor-made imaging workflows by defining and using your own custom procedures in Dentally Vision—streamline your imaging and charting in just a few steps.

Configure your treatment item

To be able to add specific treatment items to your custom procedures they must be configured first in your settings.

- Navigate to 'Settings' > 'Treatment & Plans'
- Select the imaging item you wish to add as a cloud imaging procedure from your list on the left.



- In the 'Details' tab scroll down to the 'Cloud Imaging' section.
- Ensure 'Treat is a cloud imaging procedure' is ticked.
- Select from the dropdown the procedure category.

When it comes to creating your custom procedure in step 2, the treatments available for charting will depend on the imaging category of the custom procedure.

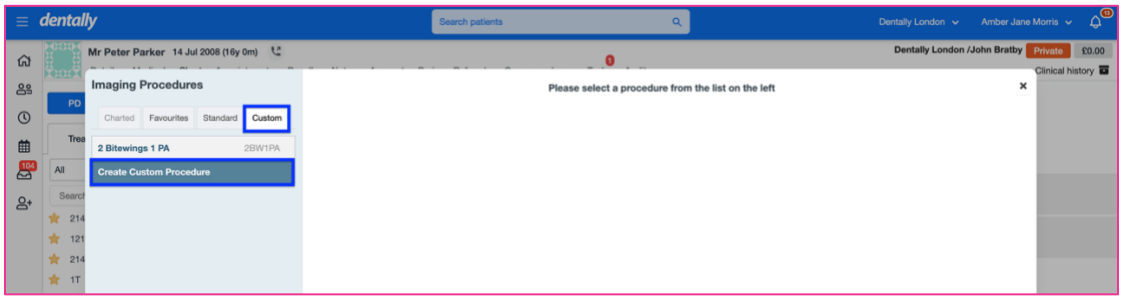
For example, If I am creating a radiograph custom procedure, only treatment items set up with the **'intraoral radiograph'** category here will be available for selection to be charted.

Your default treatments created when Dentally Vision was enabled will already be set up for you but this will need to be set up for any practice specific treatment items you use.

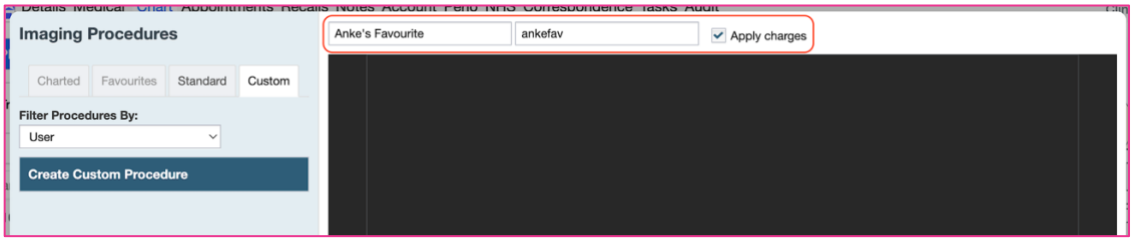
Create a custom procedure in Dentally Vision

💡 **Top Tip -** Set up your custom procedures against a test patient so they are ready ahead of time for your next appointment.

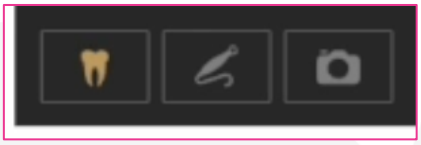
- Navigate to a patient in Dentally, select or open a new treatment plan and click on '**Acquire images'** at the top of the treatment plan section.
- Under '**Imaging Procedures**' on the left go to '**Custom'** and click on '**Create Custom Procedure'.**



- Enter a '**Procedure Name'** and a '**Code**' - The Procedure code will change to lowercase once added.

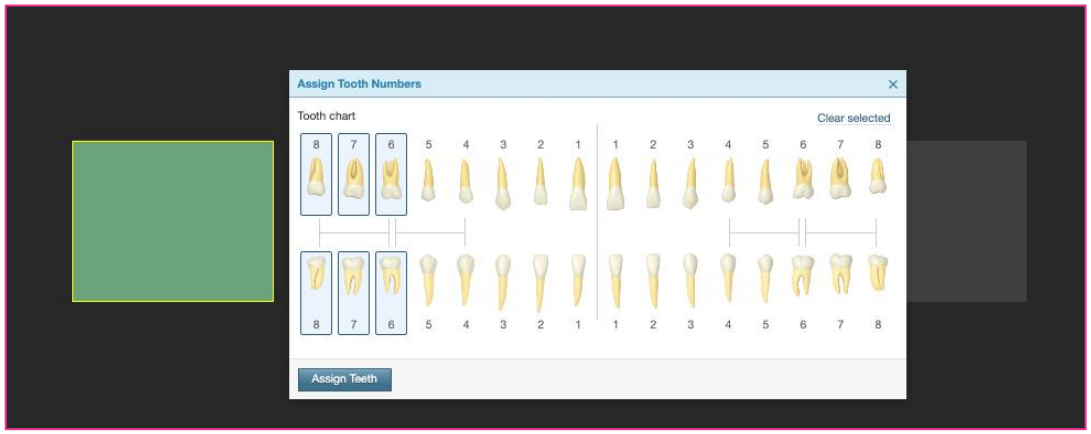


- Tick the '**Apply charges**' tickbox if you want to charge for this image procedure as per the treatment item and plan fees.
- At the bottom left of the screen choose the image type you'd like to add:
    - X-rays
    - Intraoral photographs
    - Extraoral photographs



- Use the '**Add vertical'** or '**Add horizontal'** buttons across the bottom of the screen to add an image tile to your procedure. You can click and drag to arrange these however you want on the screen.

- When you have a tile selected you can use the surrounding icons to further configure your procedure, the icon actions are as follows:
- Aligning with other tiles 
- Switching orientation 
- Increase or Decrease the tile size by clicking and dragging the corner of the image.
- Make sure you assign tooth numbers to each tile by using the '**Edit**' icon  (This **MUST** be done before saving your procedure)



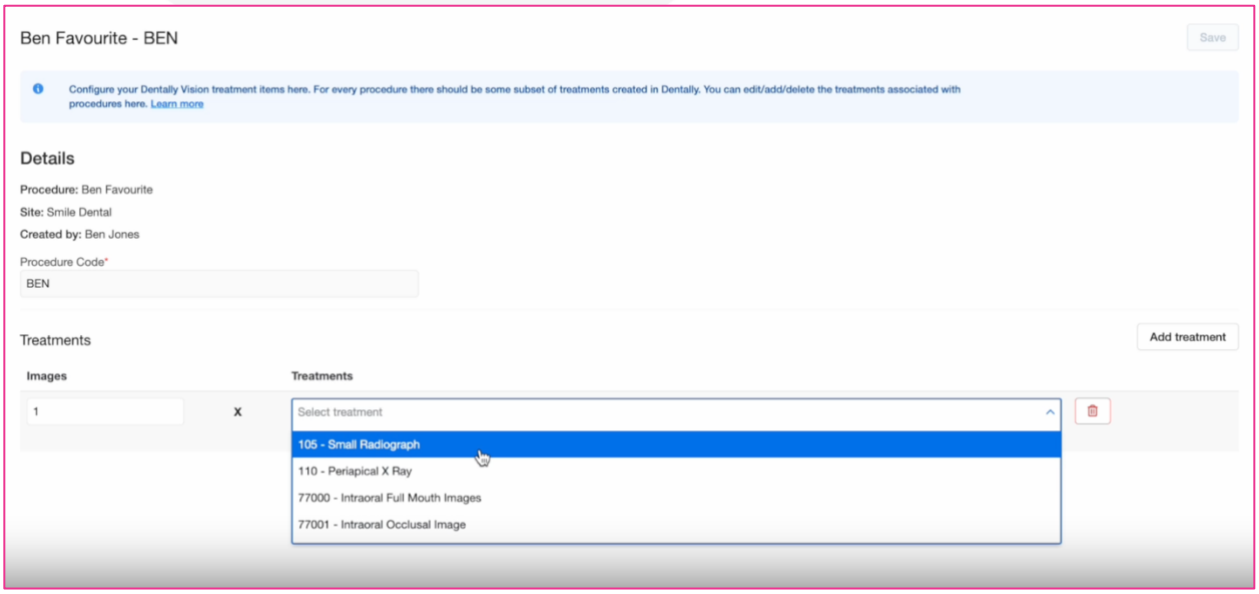
- Other configuration options are:
- The ability to mirror your exam by ticking the '**Mirrored Exam**' box in the bottom right.
- Set the order in which you acquire the images in your procedure by choseing the '**Set Order**' button and selecting the images in the order that you wish to acquire them.
- Once you are happy with all your settings, click '**Save'** to move onto the next step.

Set-up custom procedure treatments

In this step we will be adding the treatment items that we want the procedure to chart against the patients treatment plan when acquiring images using this new custom procedure.

- Click on '**Add treatment**'
- Select the treatment item that should be charted when using this imaging procedure from the dropdown in the middle.

- Chose the number of times you want the treatment item to be charted on the patients exam on the left.
- You can add multiple treatments here if required.



📝 **Please note**: Only treatment items with the same imaging category can be added to a custom procedure eg. bitewings and periapicals.

Make sure you have followed step 1 first to ensure you see the correct items at this stage.

- To complete the set up, click **'Save',** you can favourite this procedure using the star icon so it shows up in the '**Favourites**' tab under Imaging Procedures making it easier to find later on.

Charting my custom procedure?

- Go to your patient's '**Chart**' tab and select '**Acquire Images'.**

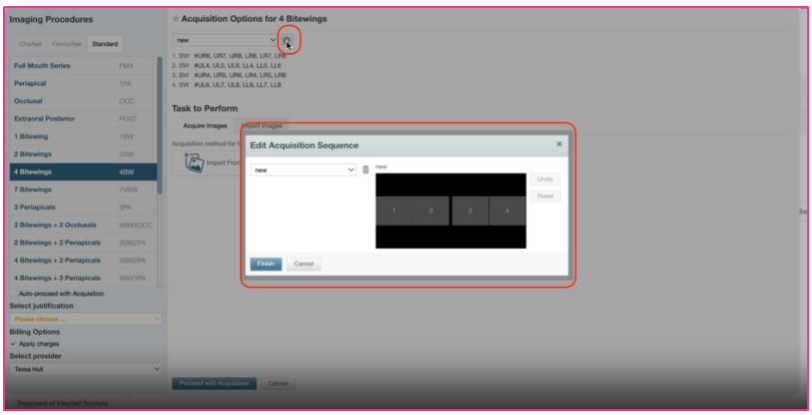
📝 **Please note:** To use custom procedures, you must **acquire the images before you chart** the treatment items.

- If you have added your custom procedure to '**Favourites',** then it will appear there. Alternatively, click on '**Custom'** and select the procedure.
- Select the acquisition method and click '**Proceed with Acquisition**'.

- The acquisition will proceed through all the images as per normal process
- Once complete, all the images will show in the **'Image Navigator'** on the left in Dentally Vision.
- When you close Dentally Vision, you will see the pre-determined treatment items have been automatically added to the chart with the images linked for easy viewing.

How do I edit a custom procedure?

- To edit the custom procedure in Dentally Vision go to '**Acquire images'** for a test patient.
- Navigate to the '**Custom'** tab and select the custom procedure you wish to edit then click cog icon next to the procedure.



- You can edit the following procedure details: Title, Code, Apply charges tickbox.
- For the Placeholders you can edit:
    - Default tooth selection
    - Orientation
    - Horizontal alignment
    - Vertical alignment

🚨**Important** - You **cannot delete or add a placeholder** when editing an existing procedure.

The buttons across the bottom of the screen will perform the following actions:

- Click '**Save**' to save your changes and continue.

- Click '**Delete**' to delete the custom procedure.
- Click '**Cancel**' to undo any changes.

Once you've saved on the first step, you can edit the following for your treatment codes:

- Which treatment(s) are automatically charted.
- How many of each treatment(s) are produced.
- Click **'Save'** to complete the editing process.

What are the permission level requirements for custom procedures?

Your permission level will determine what you can do with custom codes:

- All users can create procedures
- Level 2 users can edit and delete their own
- Level 3 users can edit and delete any for their current site
- Level 4 users can edit and delete all procedures in their practice.

Any custom procedures added to your location will be viewable and editable by all practitioners at that site.

What is an imaging procedure category?

Each cloud imaging treatment falls into one of the following categories:

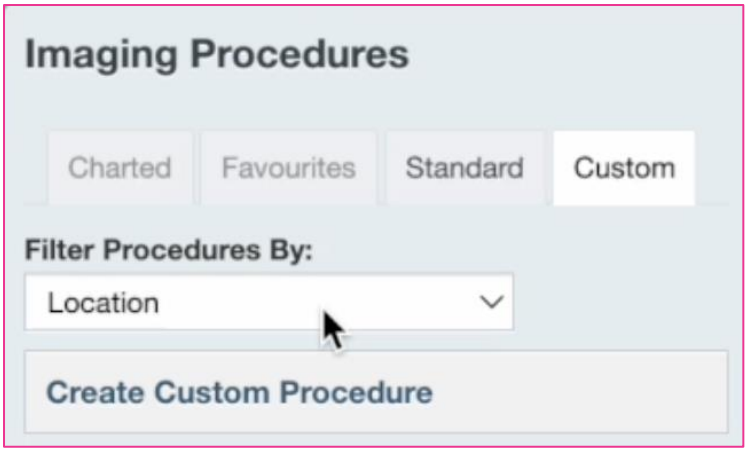
- Intraoral Radiograph
- Extraoral Radiograph
- Photograph
- Model
- 3D

The category can be edited from your settings by following step one of this guide. These categories are currently only relevant during the creation of custom procedures.

The default cloud imaging treatments created when Dentally Vision was enabled will have predefined categories. If you create new cloud imaging treatments, you must set a cloud imaging category to be able to add this to a procedure.

How to filter my custom procedure list?

You can filter your procedures using the '**Filter Procedure By:**' dropdown box. You can choose from three different categories of custom procedures to help make finding your desired exam easier.



- **Organisation**: Every custom procedure created by any user across all practices in a multisite.
- **Location**: Every custom procedure created by any user in your site. This is the default selection.
- **User**: Every custom procedure that you personally have created.

Acquiring intraoral X-rays

You can acquire intraoral X-rays with digital sensors, phosphor plates, and third-party programs.

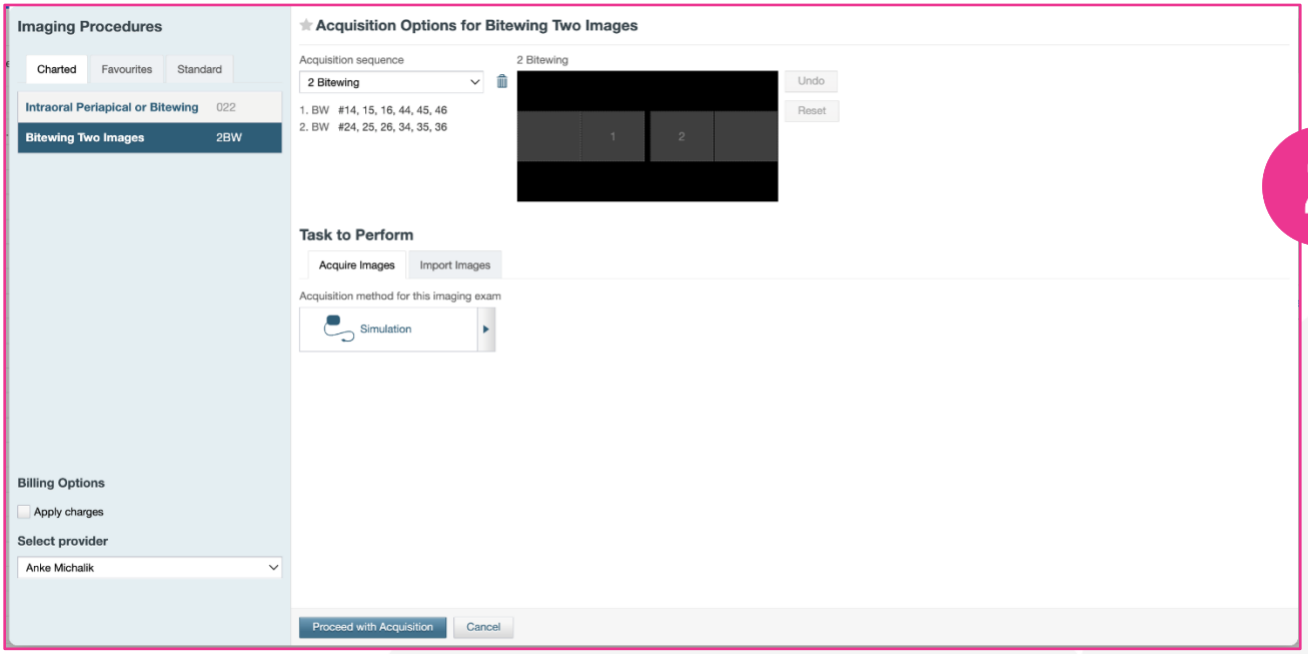
Bitewing Two Images has 3 default templates: Bitewing Two Left, Bitewing Two Right, Bitewing Two Centre.

To acquire intraoral X-rays

- Select an imaging procedure that corresponds to the acquisition type for intraoral X-rays (such as **Bitewing Single Image** or **Bitewing Two Images**).
- The acquisition options for the selected procedure become available.
- Set up the **Acquisition Options** for intraoral X-rays. Depending on the procedure selection, the Acquisition options screen will adjust accordingly.
- The notable difference is between a single x-ray and multiple x-ray. As highlighted in images one and two below.

Single X-Ray example

Multiple X-Ray example



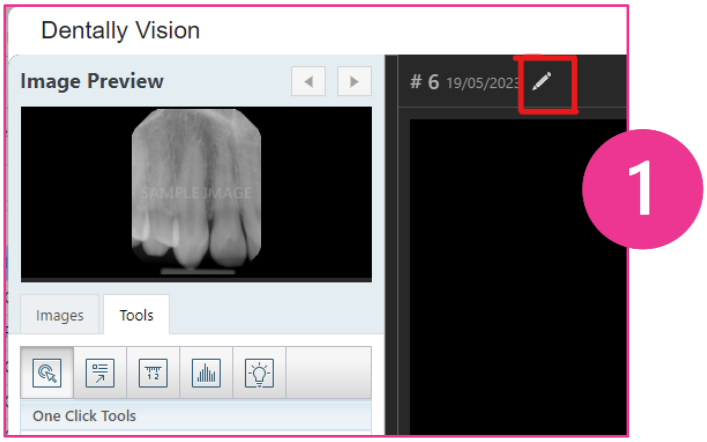
Assigning Teeth/Dentition

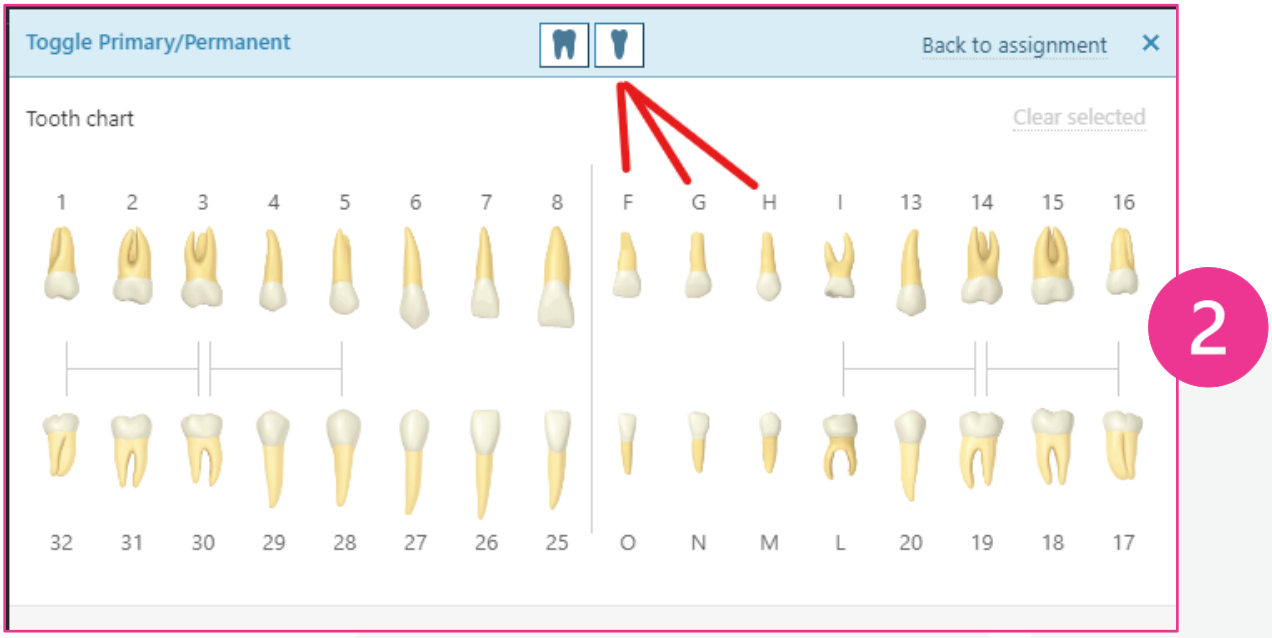
After processing an image, you can assign it to a tooth or range of teeth, you can also change dentition where required.

- To change dentition, open the saved image and click the **edit pencil** icon shown in image one.

- Click the **Toggle primary/permanent** link to show a tooth chart and the dentition buttons, select the applicable teeth, and then click the **Permanent** or **Primary** button, as shown in image 2.

- Repeat this process as needed to change the dentition of other teeth. Then, click the **Back to assignment** link on the top right as seen in image two.





Individual image

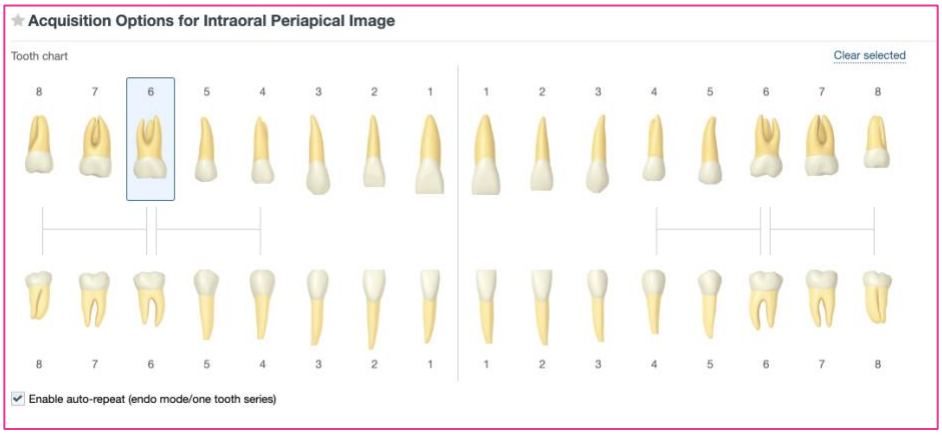
After selecting the single image procedure, select the corresponding tooth/teeth from the tooth chart.

Note: Use left click to select or deselect teeth, you can also click the '**Clear selected'** link top right of the chart.

Endo Mode

This mode will allow for the automatic retaking of the image until a satisfactory image is acquired.

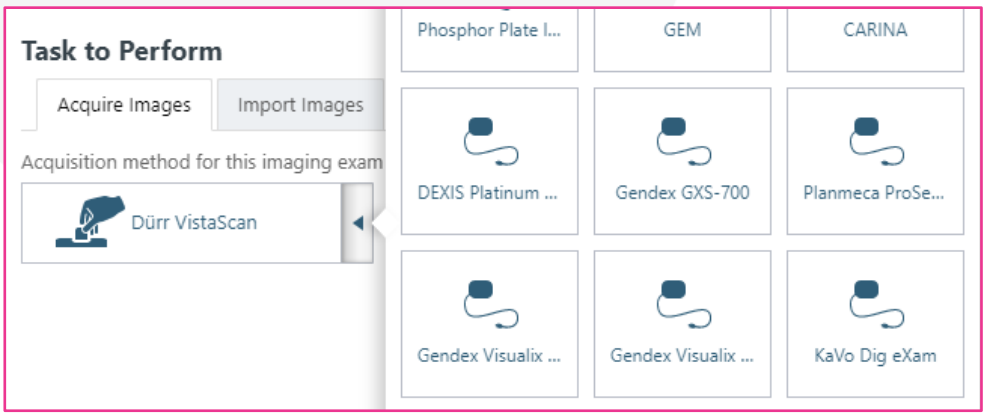
- Select the **Enable auto- repeat** check box before pressing **'Proceed to Acquisition'** as seen in image two
- This mode is only available when taking a single image, not a sequence of images. You will know when this mode is active in the acquisition screen by the extra 'Acquisition Parameters' section below the status. The "one tooth series" selection, enhances flexibility for endodontic imaging.



Note: If you are using a phosphor plate to acquire the image, make sure that the '**Enable auto-repeat'** check box is <u>not</u> selected.

Task to Perform

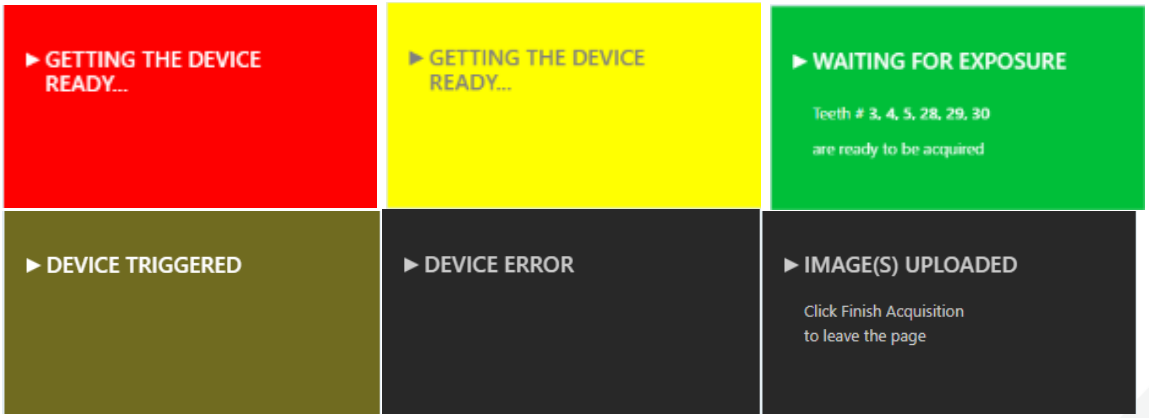
On the **Acquire Images** tab, select the correct device on the **Available Devices** menu if it is not already selected. Then proceed with Acquisition.



Individual image with a sensor

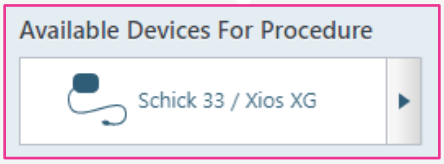
After pressing **Proceed with Acquisition**, you will see the Acquisition screen. This will give visibility of the sensor status (which can consist of 1 of 5 states).

- **Red** and **Yellow** represent readying the sensor
- **Green** means the sensor is ready for you to expose the patient.
- Once exposed you will see the **Brown** status
- **Black**, Device Error means there was a fault and to cease the x-ray procedure.
- Finally Images Uploaded (**Grey/Black**) represents a successful acquisition.



Encase of an Error do the following to troubleshoot:

- If you need to change the acquisition device, select a different device on the **Available Devices for Procedure** menu.
- Take the x-ray when 'Waiting for Exposure is displayed, it will show on the screen.



- After processing the x-rays, the status will confirm the images have been uploaded to the patient record.

Note: The saved state of the **Smaller/Larger** button  , which is available when you are viewing images, affects the preview size of images during acquisitions in endo mode. The state of the button is stored per computer (or device).

If using Endo mode, repeat steps as needed to retake the radiograph until you have acquired a satisfactory image.

Note: The original image and all recaptured images are saved to the patient's record.

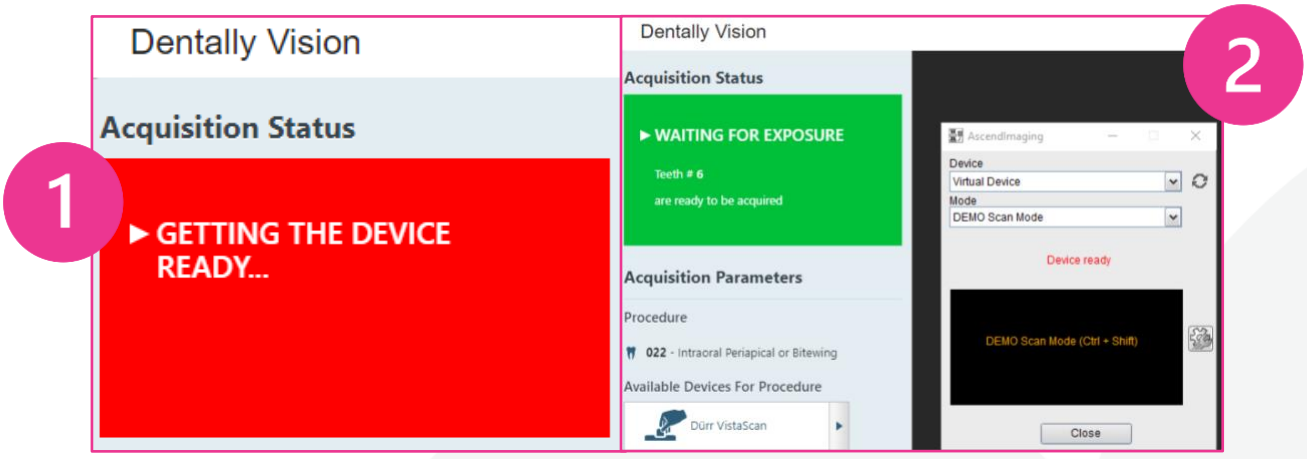
When you are finished acquiring in endo mode, click **Finish Acquisition**.

Individual image with a phosphor plate scanner

When you press **Proceed with Acquisition**, Dentally Vision will load the scanner connection program.

In our example we will connect with a Duerr Dental Vistascan, while loading the scanner software, Dentally vision will show the following **'Getting the device ready'** status as seen in image one.

Once the scanner software has loaded, Dentally Vision will change it's status to **'Waiting for Exposure'** as seen in image two.



Note: this doesn't require you to expose the patient to radiation at this point means it's waiting for the transfer of data from the scanner. This is where you can load the Image plates into the scanner.

Do the following:

- From the **Apply Enhancement** list, select the type of enhancement that you want to have applied automatically to the image that will be acquired (**Entire Image**, **For Perio**, **For Endo**), or select **Not Enhanced** to not apply any enhancement.

Note: While viewing an image after it has been acquired, 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 "Processing images in this guide."

Scanning an individual image through a Third-Party Program (TWAIN or bridge)

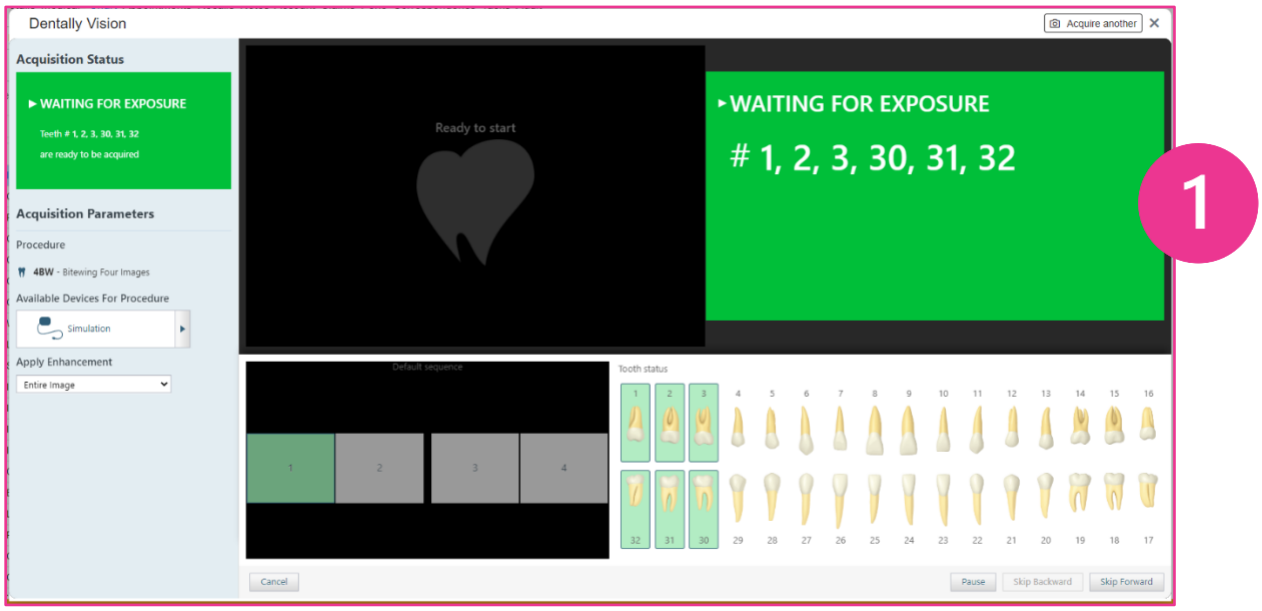
Do the following:

- Press the proceed with acquisition button, note the TWAIN software will launch.
- Use the options in the third-party TWAIN interface or imaging program that opens to get ready to acquire the image.
- Take the image as per the normal process.
- Close the third-party TWAIN interface or imaging program.
- The image is saved to the patient's record in the Dentally Vision program automatically.

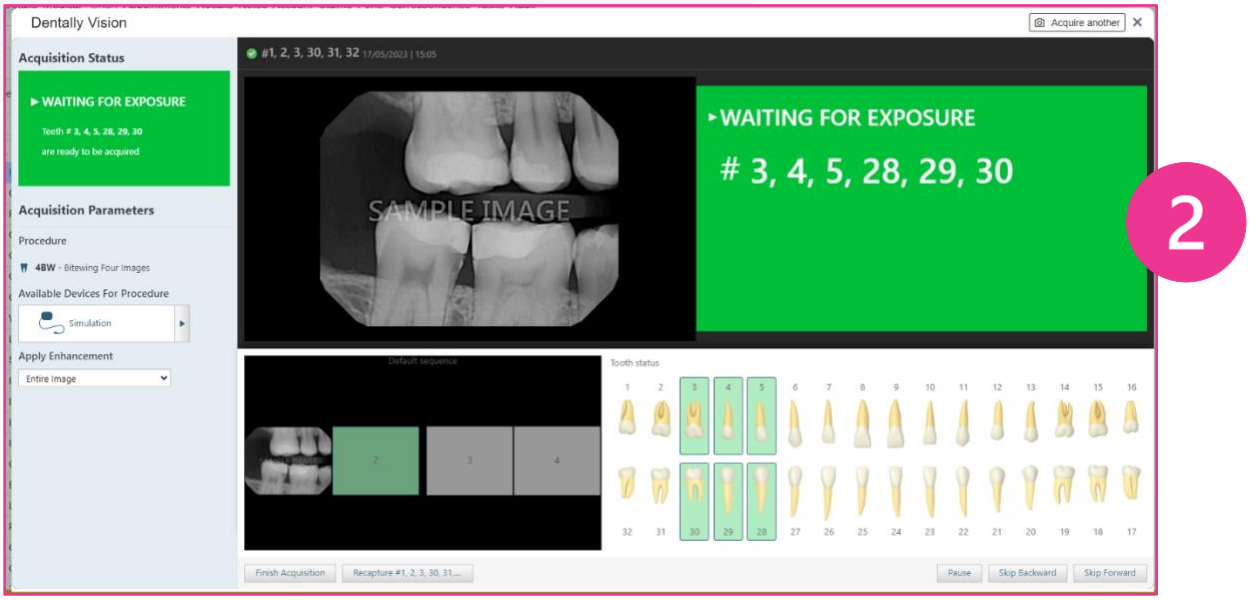
Series of images with a sensor

The selected acquisition device is initialized.

The first step in the acquisition sequence is selected automatically (as indicated by the green, numbered box in image one below) on the sequence diagram, and the applicable teeth are selected on the **Tooth status** chart for your reference.



The resulting image is saved to the patient's record, and a preview of the image appears. Also, if the image that you just acquired was not for the last step in the acquisition sequence, the next step is selected automatically (as indicated by the green, numbered box) on the sequence diagram, the applicable teeth are selected on the **Tooth status** chart for your reference, and the X-ray sensor becomes ready for exposure again.



Repeat relevant steps until you finish acquiring images for the series, as seen in image two.

Further guidance and troubleshooting:

- If you need to change the acquisition device, click **Pause** to pause the acquisition, select a different device on the **Available Devices for Procedure** menu, and then click **Capture [teeth]** to resume the acquisition.

- To stop the acquisition session before you finish acquiring the entire series, click **Finish Acquisition**. You can resume the incomplete exam later if necessary.

- To replace an image that you have just acquired, click **Recapture [teeth]**, and then retake the image. Next, in the **Select Image** dialog box that appears, click either **Keep Existing** to keep the original image or **Keep Recaptured** to replace the original image with the new image, as seen in

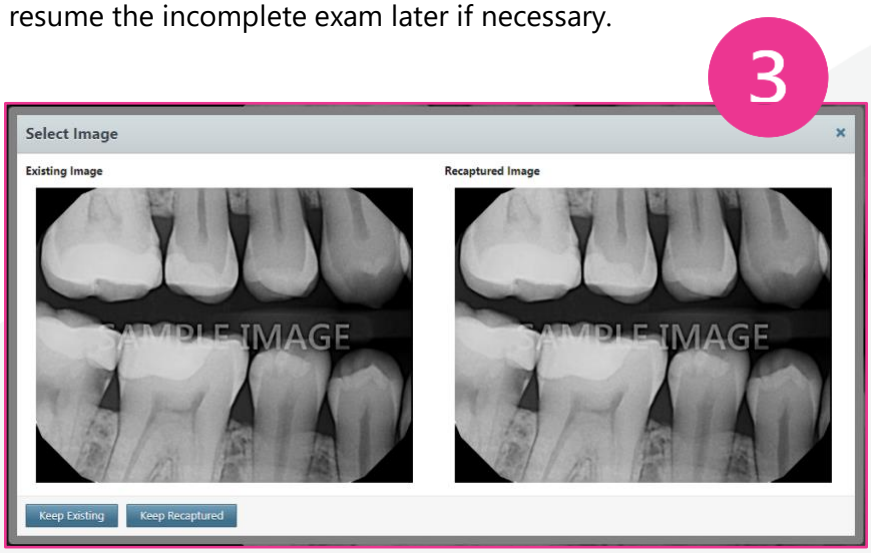


image three.

- You can repeat this process as needed until you have acquired a satisfactory image. The original image and all recaptured images are saved to the patient's record.

- To go backward in the acquisition sequence one step, click **Skip Backward**.

- To go to any step in the acquisition sequence to acquire or replace an image, click the applicable placeholder (numbered box) on the sequence diagram. The applicable teeth on the **Tooth status** chart are selected automatically for your reference. After acquiring or replacing the image, the program advances to the next step in the acquisition sequence that does not have an image.

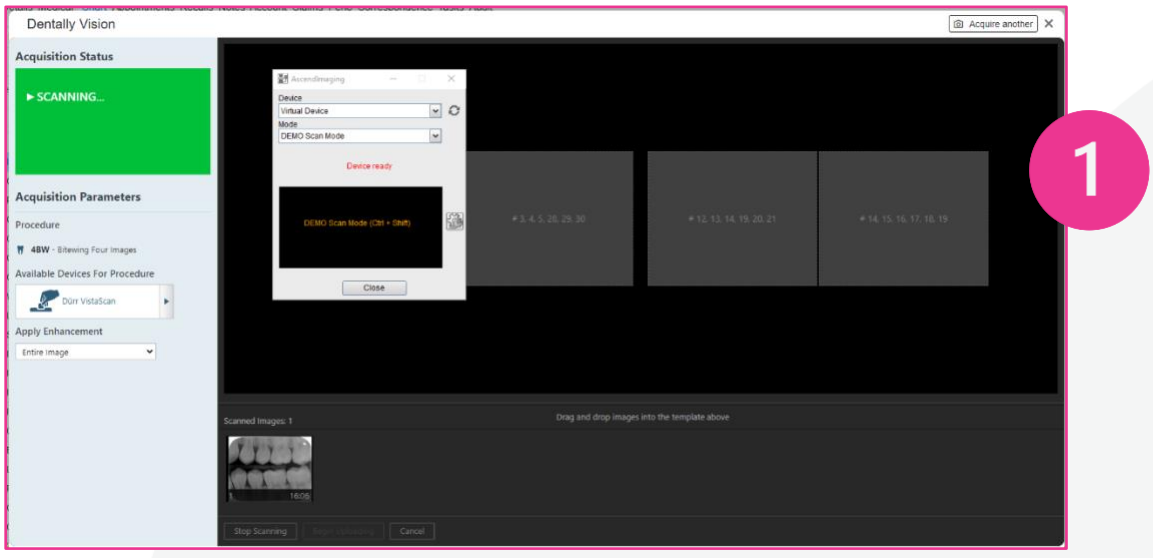
Series of images with a phosphor plate scanner

Proceed with the Acquisition as normal and do the following:

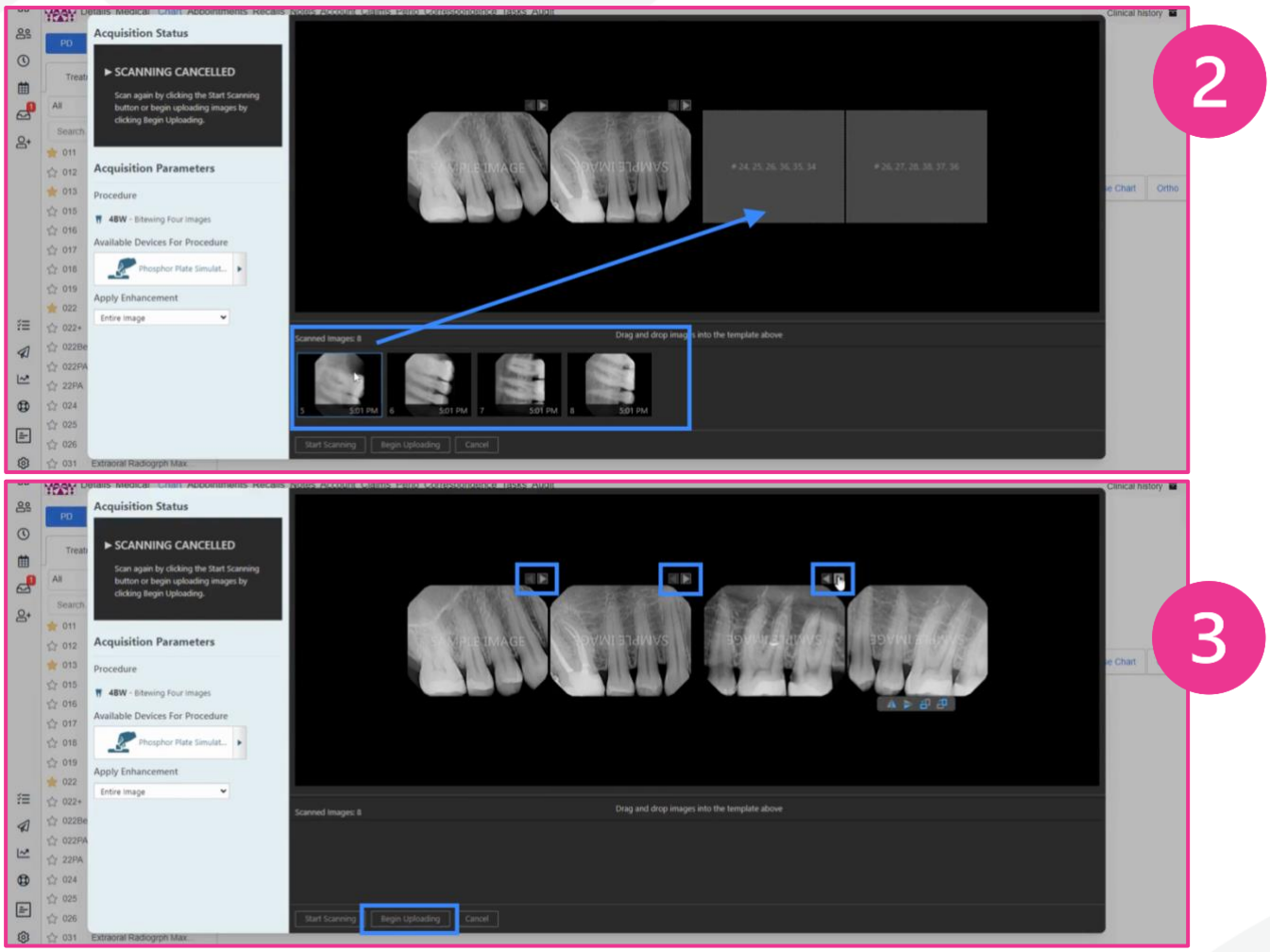
- From the **Automatically Apply Enhancement** list, select the type of enhancement that you want to have applied automatically to the images that will be acquired (**Entire Image**, **For Perio**, **For Endo**), or select **Not Enhanced** to not apply any enhancement.

- Put the phosphor plates, with the edges with the dot or letter pointing up, in the scanner according to the manufacturer's instructions.

- As the scanner finishes scanning a plate, the resulting image appears as a thumbnail image on the panel at the bottom of the Dentally Vision program, as seen in image one below.



- After all the plates have been scanned, one at a time, click to stop scanning. Then simply drag the thumbnail images from the '**Scanned images'** panel to the correct boxes on the template. As demonstrated in image two below.



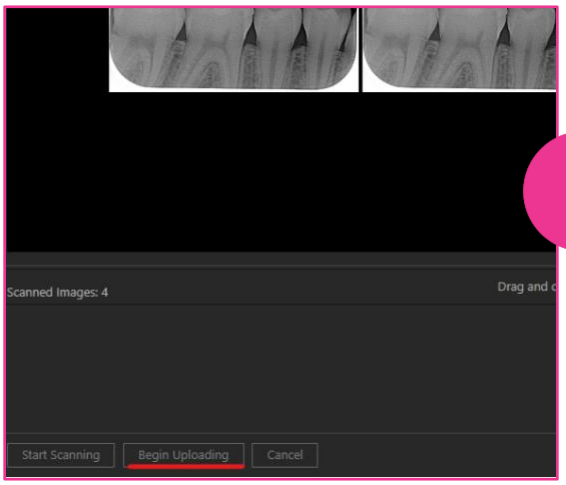
- You can drag and drop multiple images to the same location on the template creating a stack of images that you can then scroll through later.

Note: If the orientations the phosphor plates were correct when the radiographs were taken and when inserted into the scanner, the images will have the correct orientation in the series.

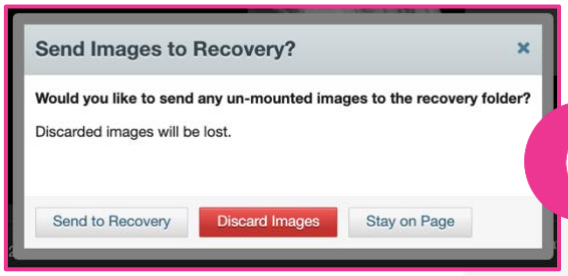
When you drop a thumbnail image into a box of the template, the image is rotated automatically as needed for that position in the series.

As needed, do any of the following:

- To change the orientation of an image in the template, select it to view the toolbar, and then click (or tap) any of the available buttons as needed: **Flip Horizontal**, **Flip Vertical**, **Rotate Counterclockwise** (90 degrees), and/or **Rotate Clockwise** (90 degrees), as seen in image four.
- 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.
- Click '**Begin Uploading'** at the bottom of the window**,** as seen in image five to save the mounted images to the patient's record.



If you are left with some images in the '**Scanned Images'** when you click '**Begin Uploading'**, the recovery message will appear. (**Image six**)



This message allows you to choose one of three options;

- **Send images to Recovery** – This means the images that have been left unmounted will be saved against the patient and the next time you go to take x-rays for them the images will appear in the scanned images section.
- **Discard Images** – Discarded images will be lost and permanently deleted. These are not recoverable.
- **Stay on page** – This will take you back to the acquisition screen and the uploading process will **NOT** begin.

Series of images with a third-party program (TWAIN or bridge)

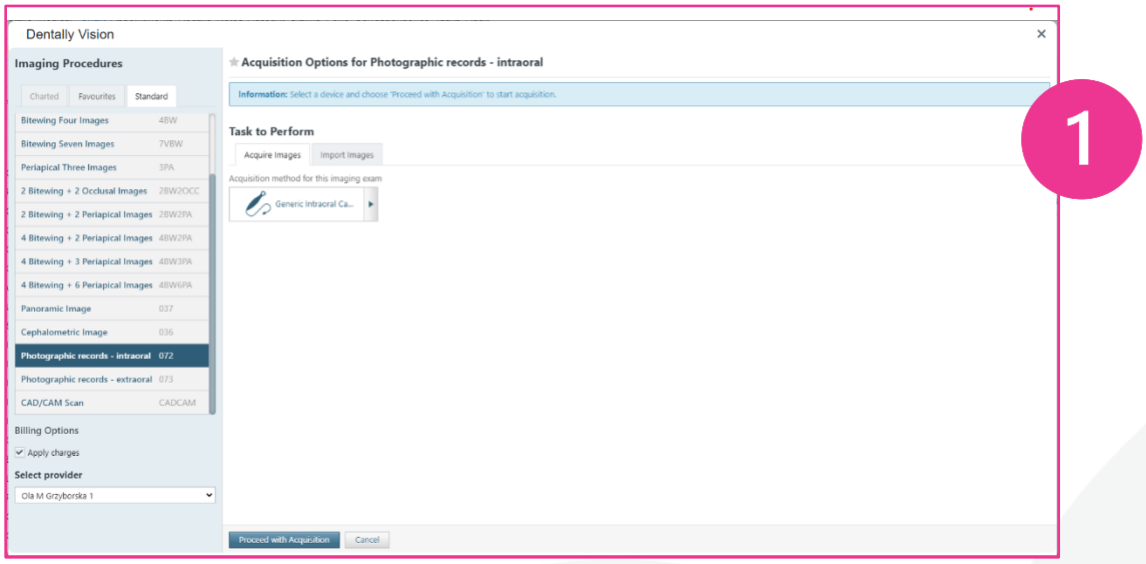
Do the following:

- Use the options in the third-party TWAIN interface or imaging program that opens to get ready to acquire images.
- Proceed to process x-ray through the TWAIN interface or imaging program and close.
- Allocate images to placeholders if processing multiple images, this will save to the patient's record.

Acquiring intraoral and extraoral photos

You can acquire intraoral and extraoral photos with digital cameras and third-party programs.

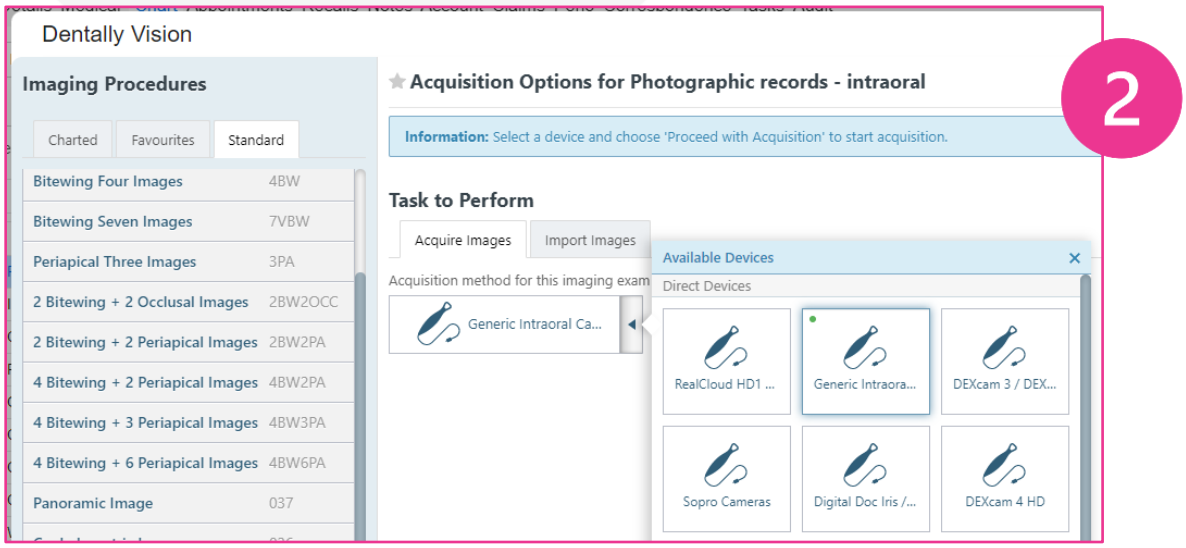
- Select an imaging procedure that corresponds to the acquisition type for intraoral and extraoral photos
- The options for the selected procedure become available.
- Check the applicable **Billing** and **Provider Options**
- Set up the **Acquisition Options** for intraoral and extraoral photos, as seen in the bottom left of image one.



Do the following:

- Under **Task to Perform**, on the **Acquire Images** tab, select the correct device on the **Available Devices** menu if it is not already selected. .

Notes: The first time that you attempt to use a camera with Dentally Vision on any computer, when a message from the browser appears and asks if you want to allow the browser to have access to the camera, allow it.



- Click Proceed with Acquisition.
- Acquire one or more intraoral and/or extraoral photos with the specified device.

Individual images with a camera

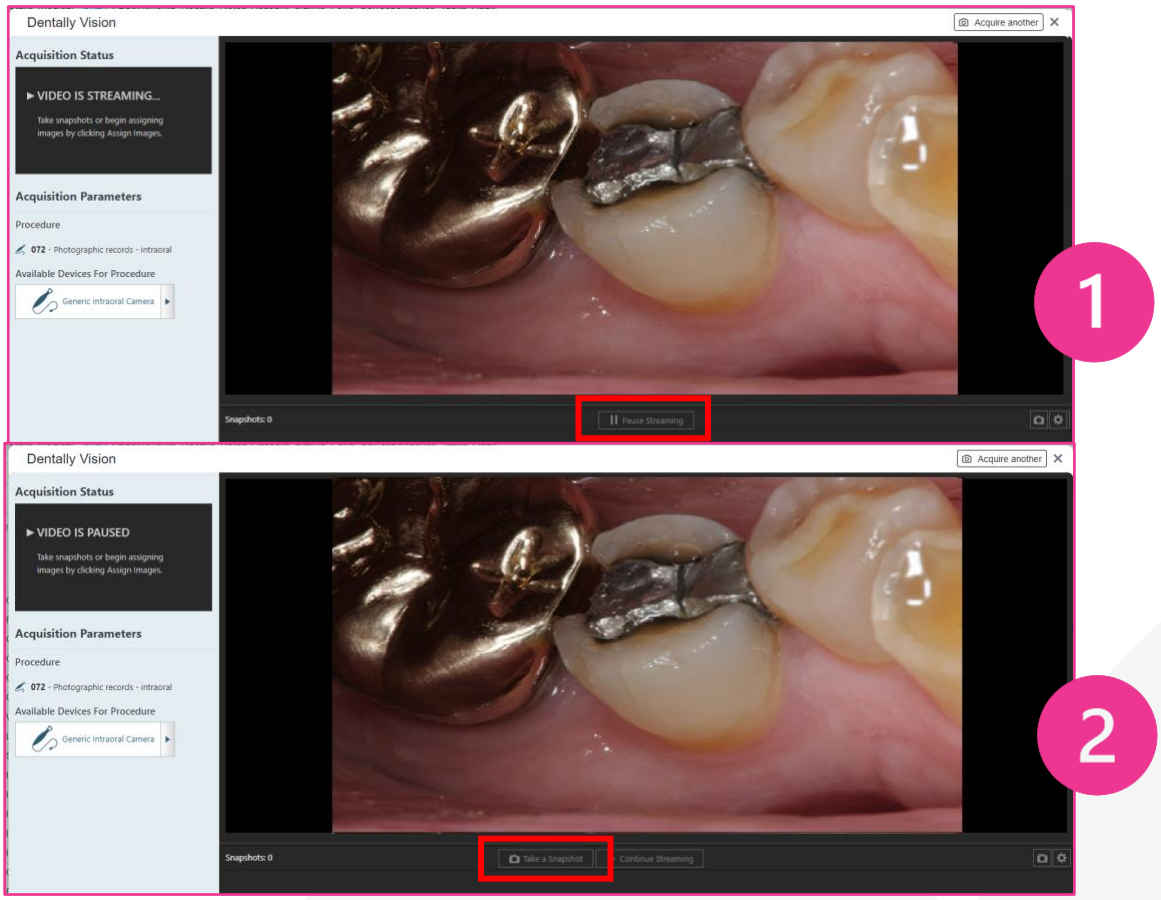
To tune your camera's settings, you can click the **'Camera Properties'** button . To change camera device, you can select the 'Change Video Source' button

If you need to change the acquisition device, select a different device on the **Available Devices for Procedure** menu.

To use the camera point the camera at the patient or at the correct area inside the patient's mouth.

To pause or freeze the live video stream, with the camera properly positioned, do one of the following:

- Press the button on your camera.
- Click (or tap) Pause Streaming as seen in image one.

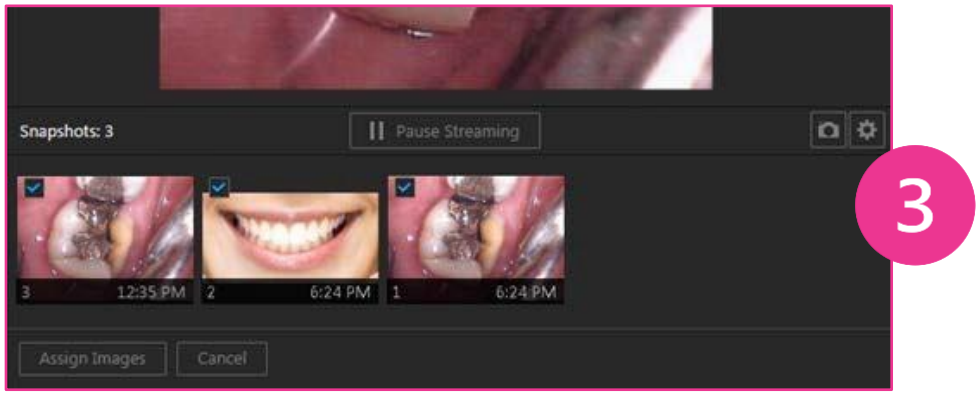


To capture the current video frame, do one of the following:

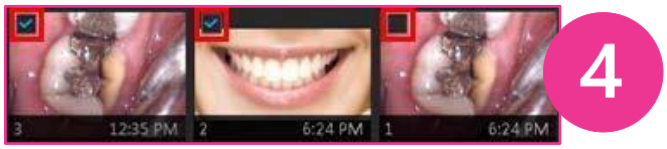
- Press the button on your camera as seen in image two.
- Click (or tap) **Take a Snapshot**.

Note: If alternative button functionality has been enabled for your camera in the acquisition agent preferences, you can push the button twice to not capture the current video frame.

- The resulting image is added to the snapshot panel, and the video stream automatically becomes live again as you can see below in image three.

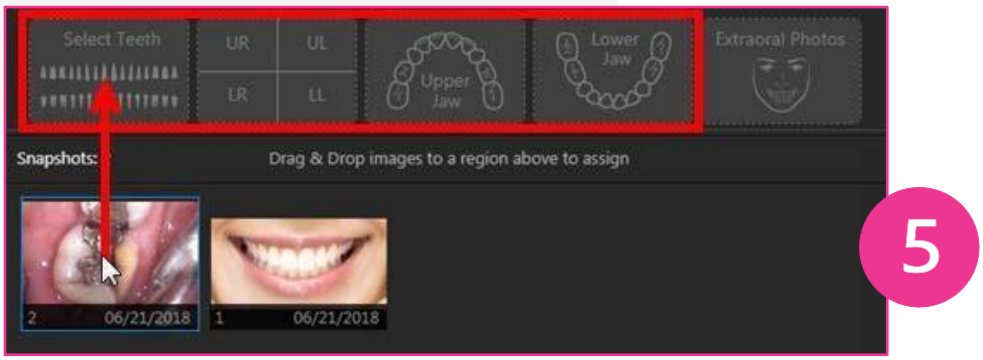


- Repeat steps a-c as needed to acquire additional snapshots.
- On the snapshot panel, clear the check box of each snapshot that you do not want to save, as demonstrated below in image four.

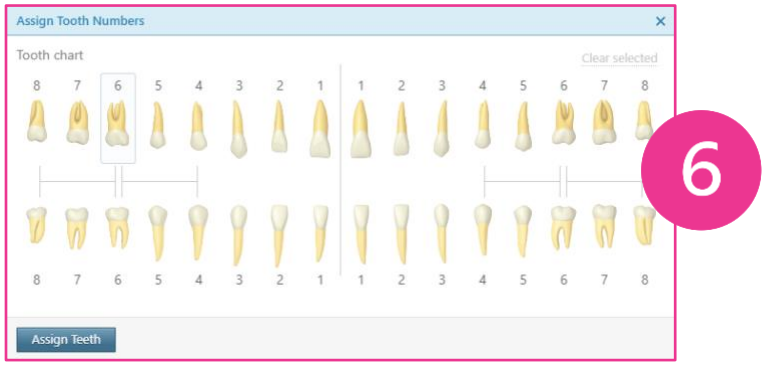


Click Assign Images and do any of the following as needed:

- To save one or more snapshots as intraoral images and assign tooth numbers, select the snapshots that pertain to the same teeth (and be sure to deselect snapshots that are not intraoral images and that do not pertain to the same teeth), and then click and drag them to the **Select Teeth**, **UR/UL/LR/LL**, **Upper Jaw**, or **Lower Jaw** box as you can see demonstrated in image five below.

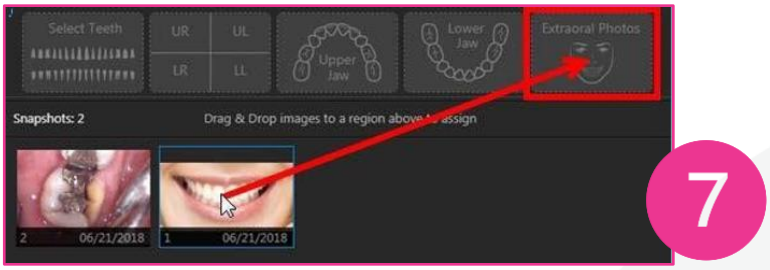


- If you drag snapshots to the **Select Teeth** box, the **Assign Tooth Numbers** dialog box appears. Select the correct teeth, and then click (or tap) **Assign Teeth**. As seen in image six.

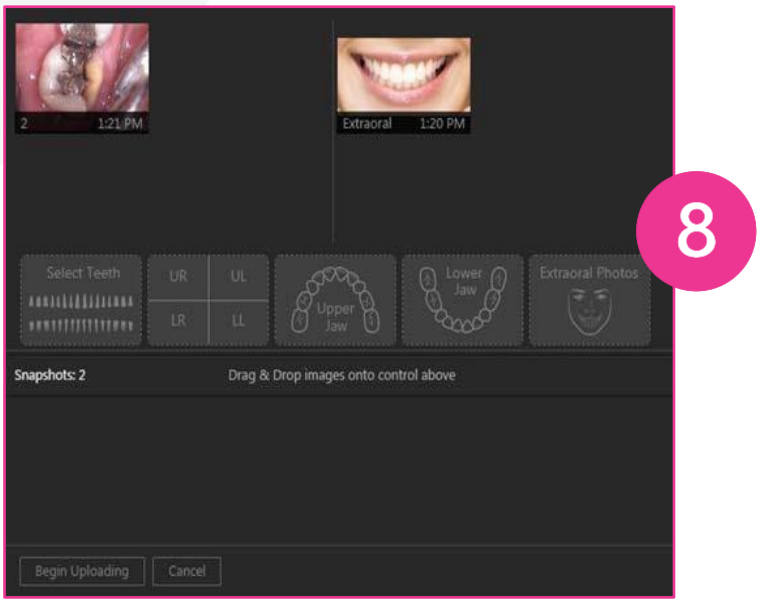


- Be sure to deselect snapshots that are not extraoral images), and then drag them to the **Extraoral Photos** box. As seen in image seven.

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



- Intraoral images with assigned tooth numbers appear on the left side of the preview area, extraoral images appear on the right side of the preview area, and images without assigned tooth numbers (which will be saved as intraoral images) appear on the snapshot panel.



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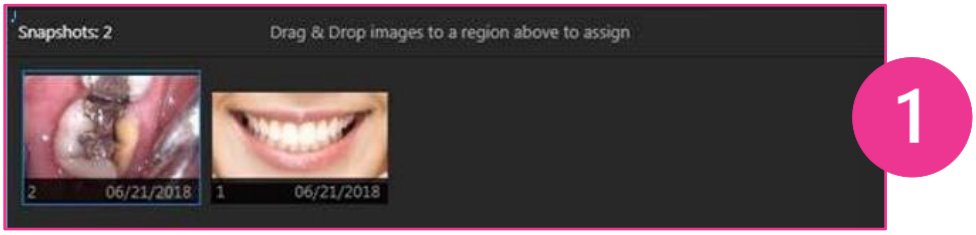
Note: If you have a mix of intraoral and extraoral images, the intraoral images will be saved as one acquisition, and the extraoral images will be saved as another acquisition in the patient's imaging history in Dentally Vision ; however, all the images will be associated with one procedure, which will appear in the patient's treatment plan.

Finally, click **Begin Uploading,** as seen at the bottom of image eight, to save the images to the patient's record.

Individual images with a third-party program (TWAIN or bridge)

Use the options in the third-party TWAIN interface or imaging program that opens to get ready to acquire images.

- Use the camera to capture images of the patient or the correct areas inside the patient's mouth.
- Close the third-party TWAIN interface or imaging program.
- The images that you captured in the third-party imaging program appear as thumbnail images on the snapshot panel at the bottom of the Dentally Vision program. As seen in image one.



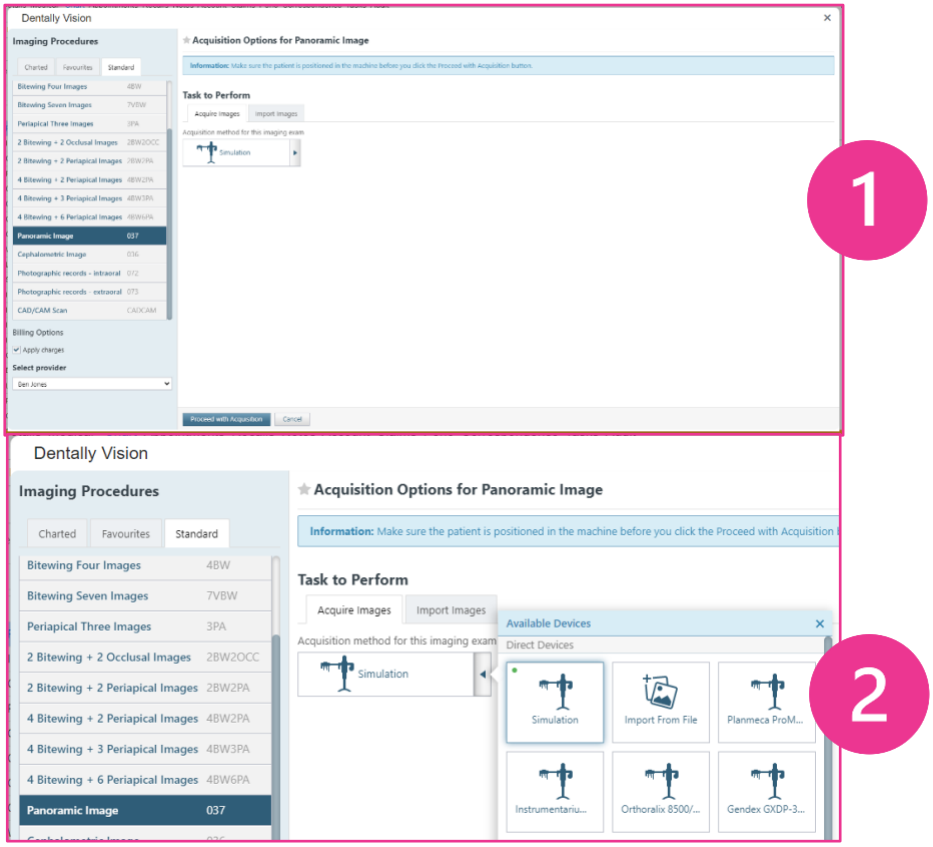
- Assign the images to the appropriate teeth designation.
- Click (or tap) **Begin Uploading** to save the images to the patient's record

Acquiring Extraoral X-rays

You can acquire extraoral X-rays (panorexes and cephalograms) with digital equipment, phosphor plates, and third- party programs.

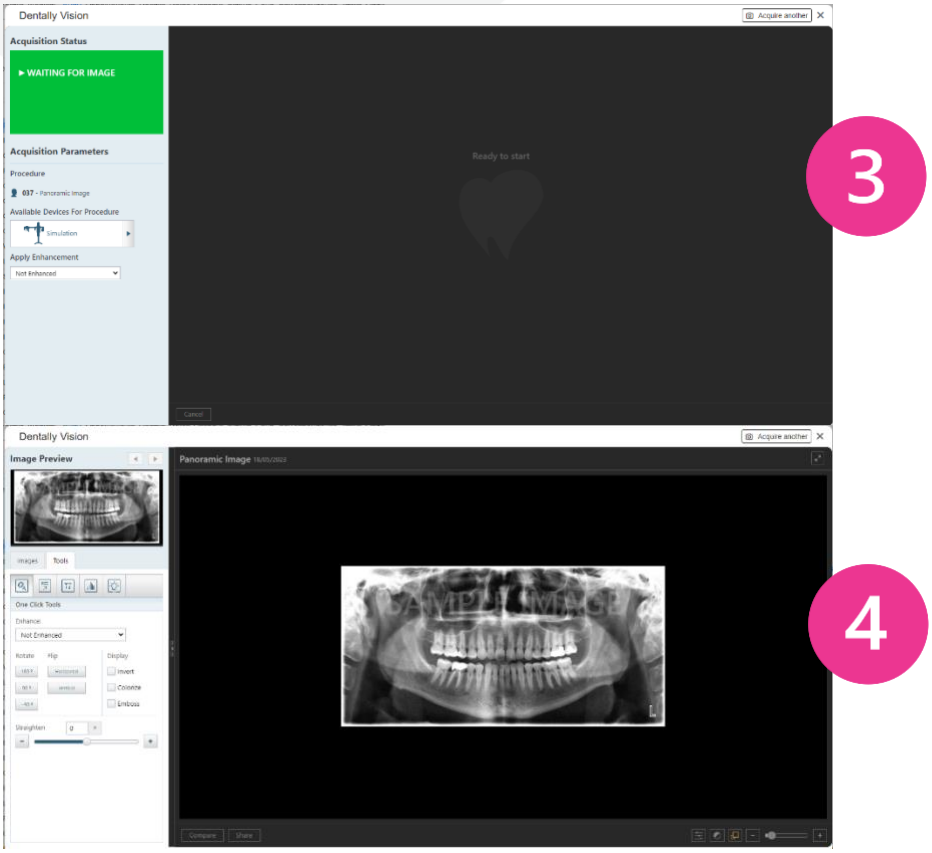
To acquire an extraoral X-ray. The options for the selected procedure become available. Set the applicable **Billing** and **Supplier Options**

- Select an imaging procedure that corresponds to the acquisition type for an extraoral X-ray: **Panoramic Image** or **Cephalometric Image**, as seen on the left in image one.



- Set up the **Acquisition Options** for extraoral X-rays, as seen in image two.

- Click **Proceed with Acquisition,** as seen in the bottom on image one. Dentally Vision waits to obtain the image from the device. (see image three)



- Acquire the extraoral X-ray with the specified device from the acquire images button, it will save automatically. (see image four)

With a phosphor plate scanner

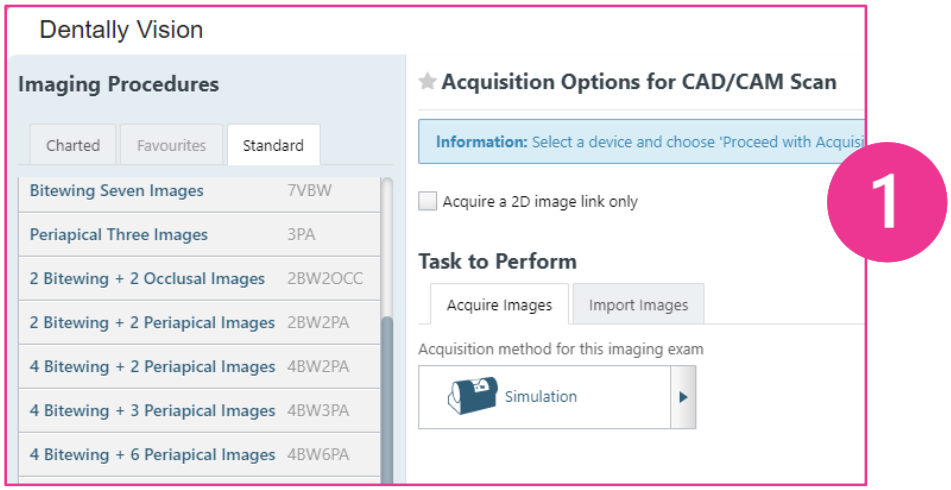
- Click Proceed with Acquisition.
- Use the options in the third-party TWAIN interface or imaging program that opens to get ready to acquire the image.
- Close the third-party TWAIN interface or imaging program.
- The image is saved to the patient's record in the Dentally Vision program automatically.

Acquiring CAD/CAM scans

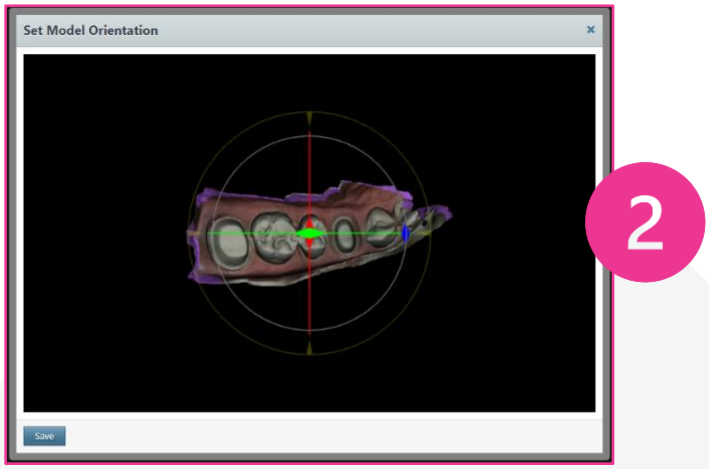
You can acquire CAD/CAM scans with third-party programs.

To acquire a CAD/CAM scan

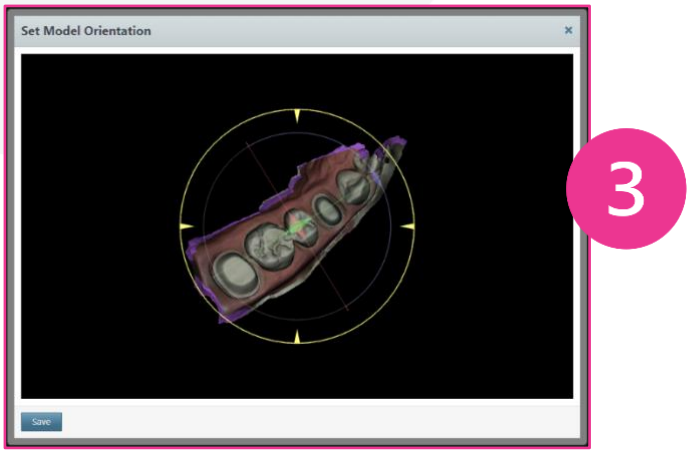
- Select the imaging procedure **CAD/CAM Scan**, which corresponds to the only acquisition type for a CAD/CAM scan. The options for the selected procedure become available.



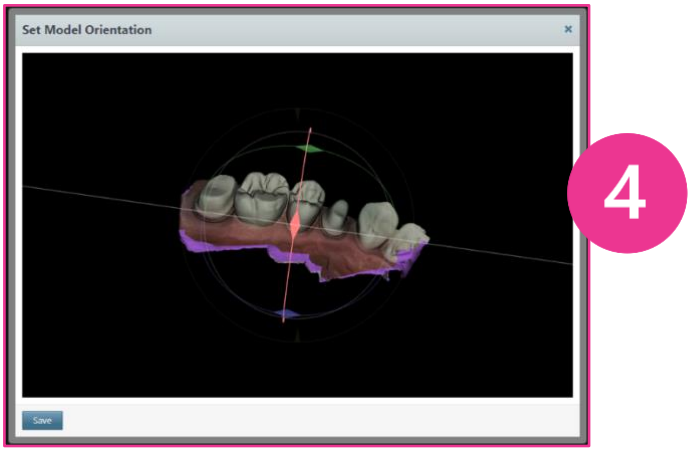
- Click Proceed with Acquisition.
- Acquire the CAD/CAM scan with the specified device.
- Use the options in the third-party imaging program that opens to get ready to acquire an scan
- Acquire the scan in the third-party imaging program.
- Close the third-party imaging program.
- The **Set Model Orientation** dialog box appears.
- Adjust the orientation of the model as you want it to appear in Dentally Vision by default. (image two)



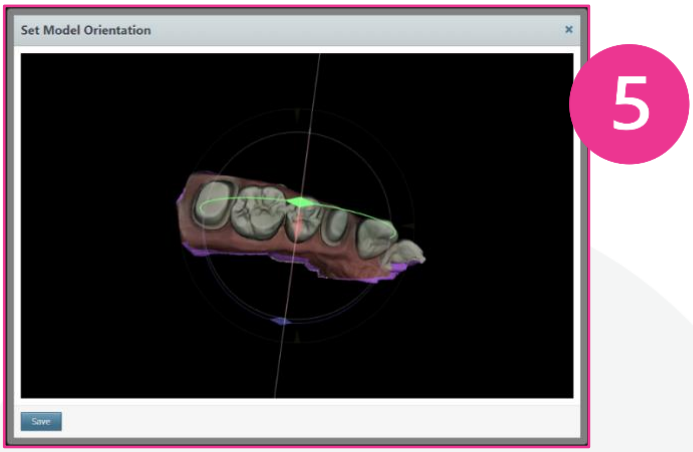
- Select the outer yellow circle to make it active, drag the mouse to rotate the model clockwise or counterclockwise. (Image three)



- Click and hold on the red line, then drag the mouse to move the image on it's y-axis.



- Click and hold on the green line, then drag the mouse to move the image on it's x-axis. As seen in image five.



Note: When you save the orientation, that view of the model becomes the default. You can adjust it further from within Dentally Vision later on.

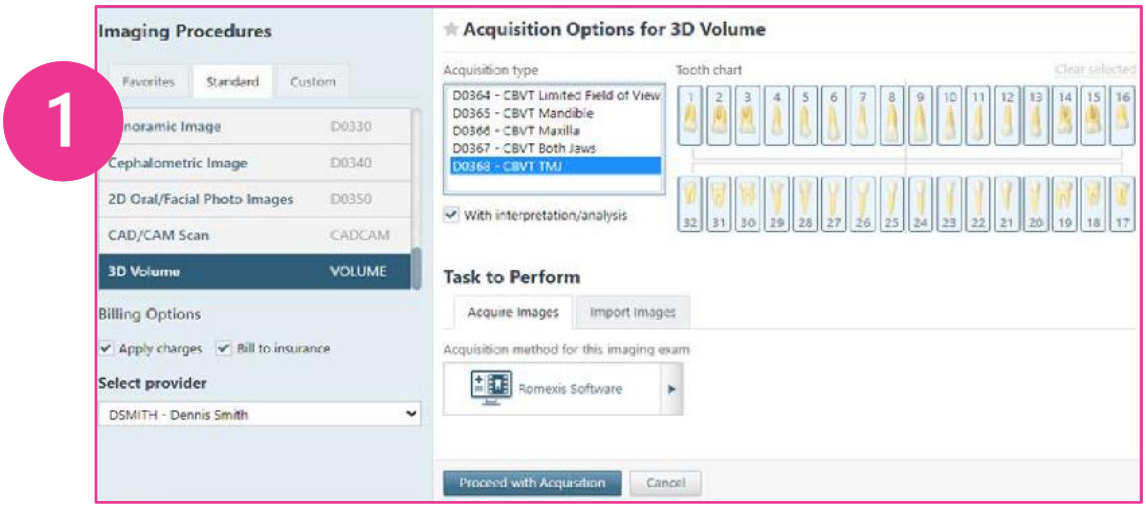
- Click (or tap) **Save** highlighted in the bottom of image five. The resulting scan is saved to the patient's record.

Acquiring 3D volumes

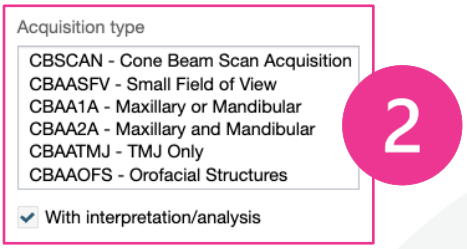
You can acquire 3D volumes with third-party programs.

To acquire a 3D volume

- Select the imaging procedure **3D Volume**, which corresponds to the only acquisition type for a 3D volume. The options for the selected procedure become available, as seen in image one.
- Set up the **Acquisition Options** for 3D volumes

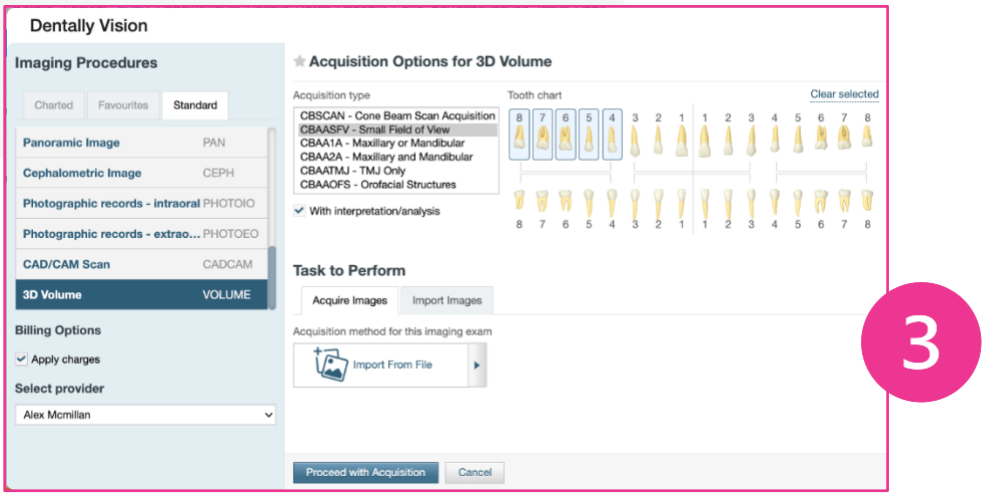


- In the **Acquisition type** list, select the procedure that will be posted, refer to image two.



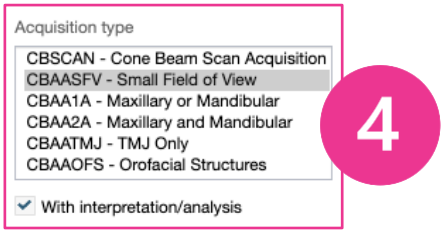
- With **CBAA2A - Maxillary and Mandibular**, or **CBAATMJ - TMJ Only** selected in the **Acquisition type** list, the applicable teeth are selected on the **Tooth chart** automatically for your reference.
- However, if **CBSCAN - Cone Beam Scan Acquisition**, **CBAASFV - Small Field of View** or **CBAA1A – Maxillary or Mandibular** is selected, select the correct teeth on the **Tooth chart** by clicking one of the teeth in each applicable sextant or by clicking somewhere within the square bracket of each applicable sextant.

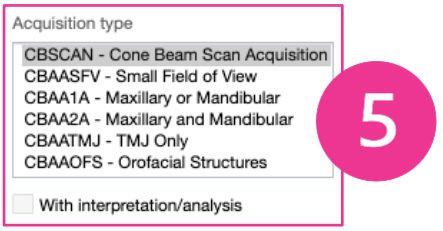
Note: In Australia **CBSCAN - Cone Beam Scan Acquisition** is known as **026 - Cone Beam Scan Acquisition.**



Note: To deselect all selected teeth, click the **Clear selected** button in the top right. The link is available only if you have selected teeth manually.

- All acquisition types except for **Cone Beam Scan Acquisition** have the **with interpretation/analysis** checkbox locked to on. (Image four)
- To perform an acquisition with no analysis, use the **CBSCAN - Cone Beam Scan Acquisition** type.

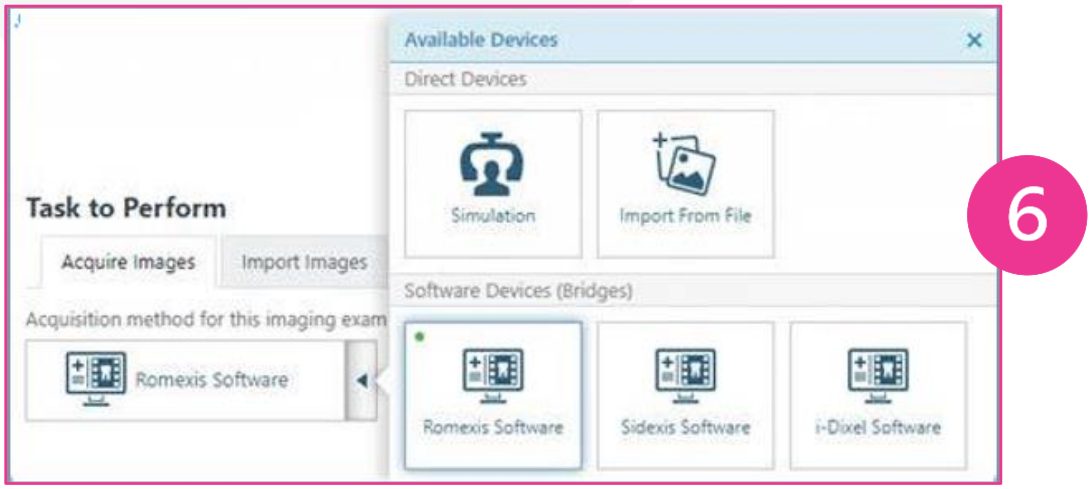




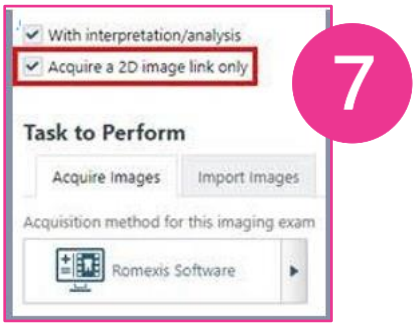
Note: In Australia **CBSCAN - Cone Beam Scan Acquisition** is known as **026 - Cone Beam Scan Acquisition** (Image five)

Note: The codes for the procedures in the **Acquisition type** list change as you select or clear the **With interpretation/analysis** check box.

- Under **Task to Perform**, on the **Acquire Images** tab, select the correct device on the **Available Devices** menu if it is not already selected. As seen below in image six.



- If the selected device supports 3D volume processing within Dentally Vision, the **Acquire a 2D image link only** check box is available, as seen in image seven. Select or clear this check box:
    - With this check box selected, Dentally Vision displays and saves only a 2D snapshot of the 3D volume.
    - With this check box clear, Dentally Vision displays and saves the full 3D volume (you can save a 2D snapshot of that volume later).



Note: The state of this check box is saved for the next time you acquire a 3D volume.

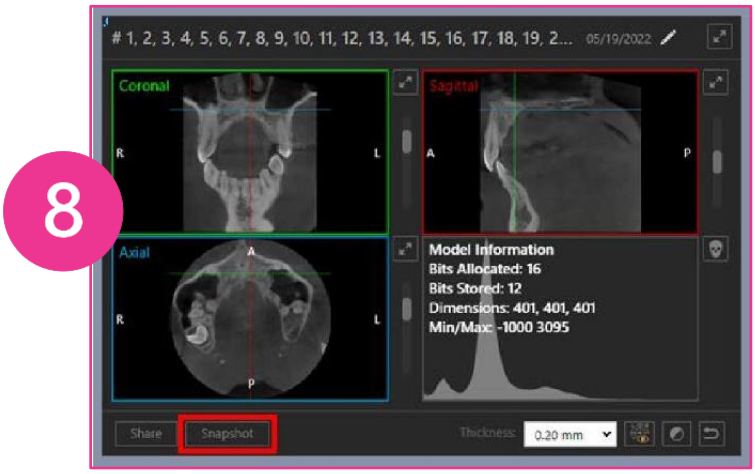
Note: If the selected device **does not** support 3D volume processing within Dentally Vision , the **Acquire a 2D image link only** check box is not available. When you acquire a 3D volume using the selected device, Dentally Vision displays and saves only a 2D snapshot of that 3D volume.

- Click Proceed with Acquisition.
- Acquire the 3D volume.
- Use the options in the third-party imaging program that opens to get ready to acquire a 3D volume.
- Acquire the 3D volume in the third-party imaging program
- Close the third-party imaging program.
- The resulting 3D volume or a 2D snapshot of the resulting 3D volume is saved to the patient's record.

If a full 3D volume is being displayed, to save a 2D snapshot of the 3D volume, change the **Coronal**, **Axial**, and **Sagittal** views as needed (for example, by rotating anatomy and navigating slices), and then click **Snapshot** as seen at the bottom of image eight.

The snapshot is saved to the patient's record as "CBCT 2D Snapshot." Repeat this process as needed to save other snapshots.

Note: Slice plane indicators (cross hairs) do not appear on a snapshot.



Importing images

You can import image files (.bmp, .png, .jpg, and .tiff files), CAD/CAM scan files (.sty and .ply files), and 3D volume files (.dcm files) to attach to a patient's record.

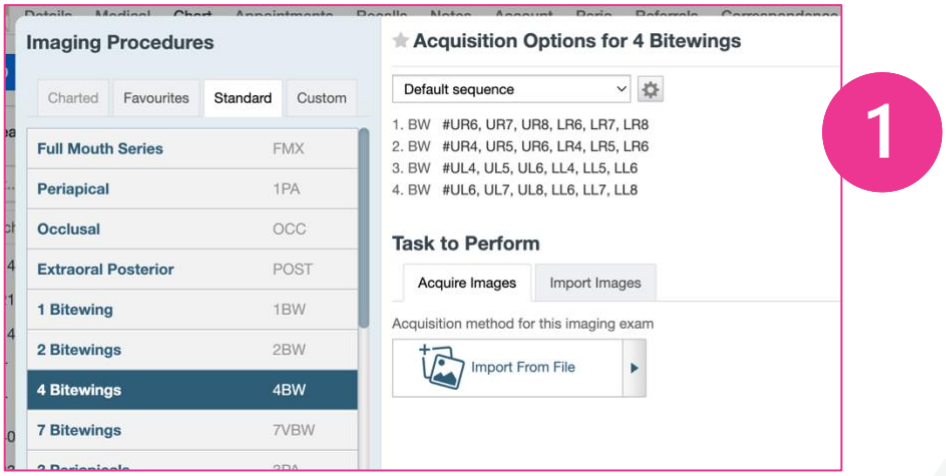
To import images

- Ensure the correct patient record is selected.
- On the Chart, click Acquire images.
- Under **Imaging Procedures**, select the correct procedure.

Note: Each procedure corresponds to a particular acquisition type: individual intraoral X-ray, intraoral X-ray series, extraoral X-ray, intraoral photo, extraoral photo, set of photos, CAD/CAM scan, or 3D volume. , the screen will show the respective import options and behave in the same way as if you were taking images, photos/X-rays or otherwise.

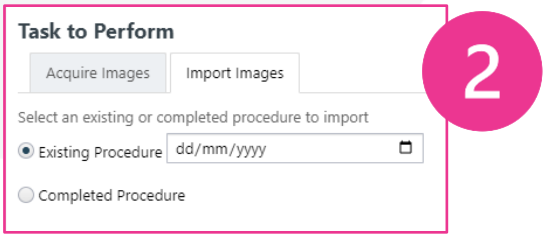
- Set up the **Acquisition Options** that correspond to the acquisition type of the selected procedure. As seen in image one.

Click the **Import Images** tab, then select one of the following options as seen in image two:

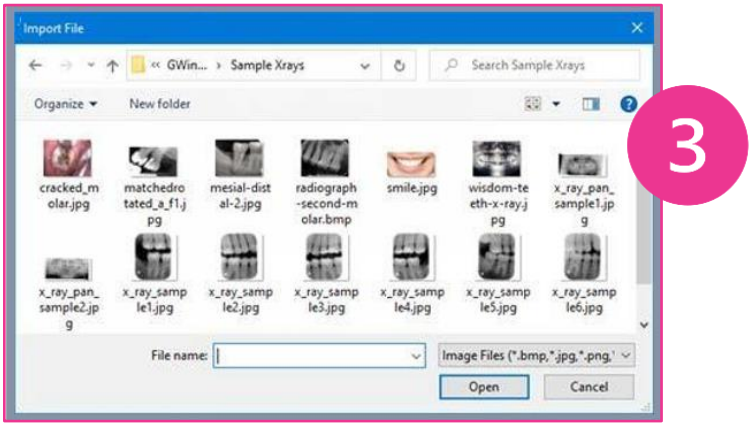


- **Existing Procedure** - Use this for a procedure that was performed prior to today (and may already have been billed to the patient's insurance carrier). Specify the date that the procedure was performed**.**

- **Completed Procedure** - Use this for a procedure that you are performing. Today's date and time will be associated with the procedure.



- Select the tooth where required and press **'Proceed with Acquisition'**.
- In the Import File dialog box that appears, select the correct image file.



- Click Open. The image is saved to the patient's record.

NOTES:

Importing 3D Image / Volume

- Select an **Acquisition type**. The selected type determines which procedure will be posted
- For most acquisition types, the applicable teeth become selected automatically on the **Tooth chart**. For the other types, select the correct teeth (such as a sextant) by clicking one of the applicable teeth or somewhere within the corresponding square bracket.

Importing Intraoral X-ray series

- The image that you imported appears as a thumbnail image on the panel at the bottom of the Dentally Vision program
- After all the images have been imported. One at a time, drag the thumbnail images from the panel to the correct boxes of the template

- 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 Counter clockwise** (90 degrees), and/or **Rotate Clockwise** (90 degrees). 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 Counter clockwise** (90 degrees), and/or **Rotate Clockwise** (90 degrees).
- 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
- Click **Begin Uploading** to save the mounted images to the patient's record
- 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 will be saved to the patient's record.

Importing Intraoral /Extraoral Photo

- The image that you imported appears as a thumbnail image on the panel at the bottom of the Dentally Vision program
- For each additional image that you want to import, click **Start Acquisition,** and then repeat steps
- On the snapshot panel, clear the checkbox of each snapshot that you do not want to save
- Click **Assign images** as appropriate
- Assigned intraoral images appear on the left side of the preview area; extraoral, on the right.
- Click **Begin Uploading** to save the images to the patient's record

Importing CAD/CAM scan

- When you adjust and save the orientation of the model, that view of the model becomes the default you can adjust it further from within Dentally Vision later.

Dentally Vision Grading

Grading Workflow Introduction

In the countries that have NHS, there is a requirement to assess the number and quality of images taken per patient.

When users take or upload digital images, they need to have the ability to grade them as Acceptable or Not Acceptable. This is to ensure consistent radiographs of adequate quality while minimising the number of times a patient is exposed to radiation.

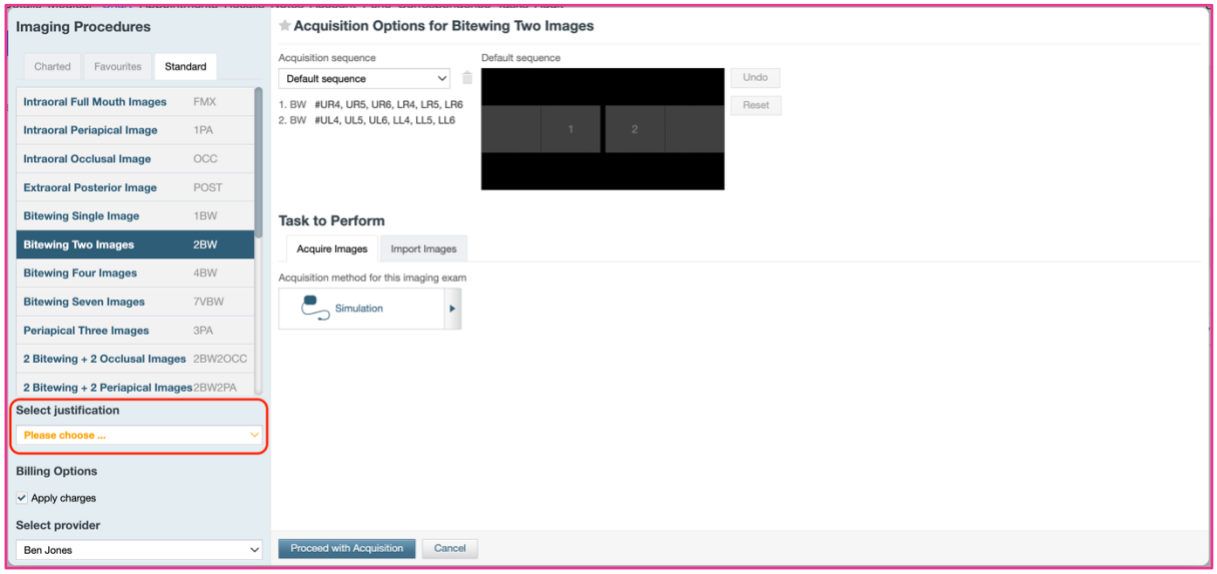
[The NHS guidelines for grading are found here in Section 5.4.]

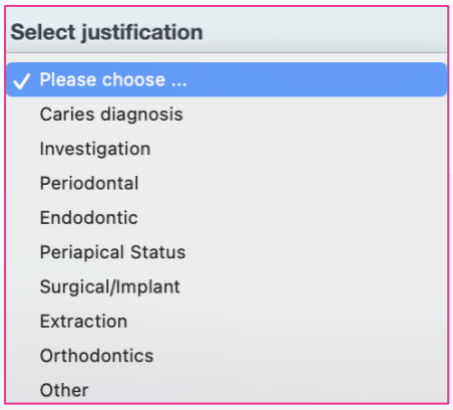
Dentally Vision Grading

When a user wants to acquire an image, they now have the option of adding an (optional) justification for the exam. This means that all images in the exam will default to that justification (this can be changed later if needed).

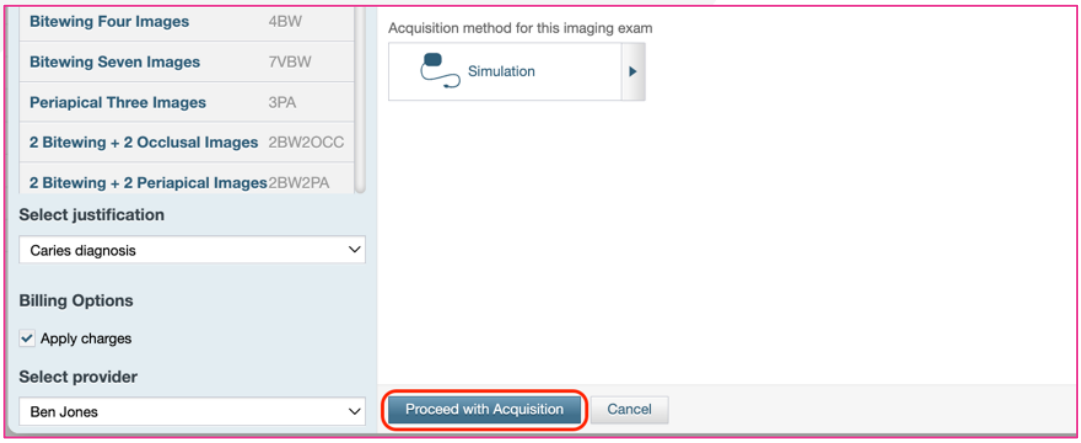
In line with UK guidelines, CBCT images can now be graded as '**Acceptable**' or '**Unacceptable**', with an option to add justification. This aligns with the recommended two-point scale for dental radiography set out in the national guidance. Grading is currently available for users in the UK only.

To set the Justification, go to **Select Justification** and choose an option from the dropdown.





Begin the acquisition flow by selecting **Proceed with Acquisition** as per current process.



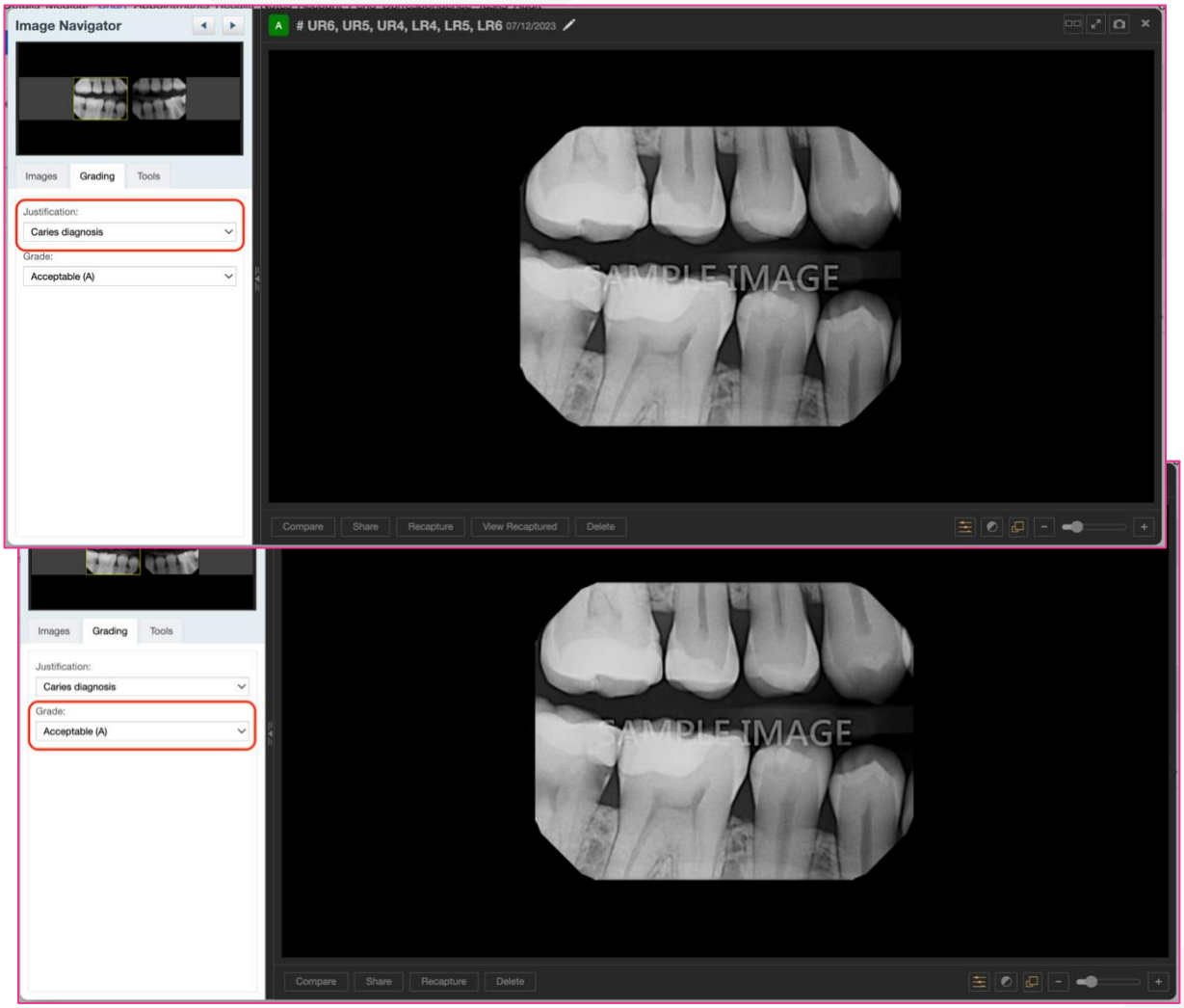
Acceptable Image Grade

Once the acquisition flow has been completed, the **Grading** tab becomes available in the image navigator.

Select the **Grading** tab.

NOTE: Each image in the exam has its own grading.

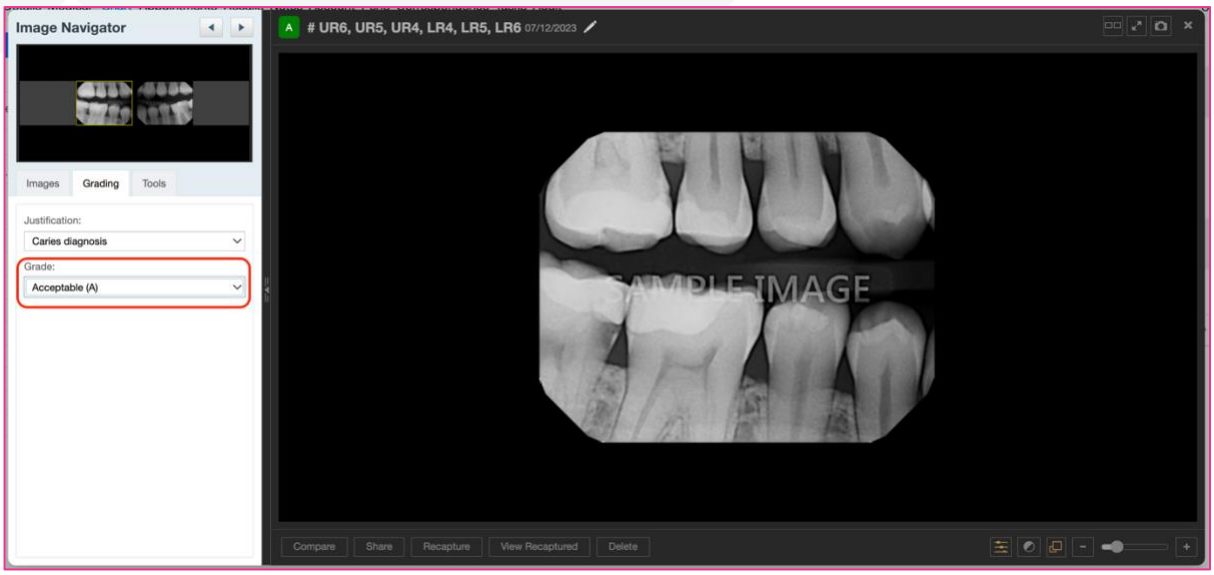
Select the image in the **Image Navigator**. Each image is automatically set to **Acceptable(A).** Also denoted by green **A** icon in Image Header.



The **Justification** is prepopulated from the selection made at the beginning of the exam. This can be edited per image using the **Justification** dropdown

Grading an Image to Not Acceptable

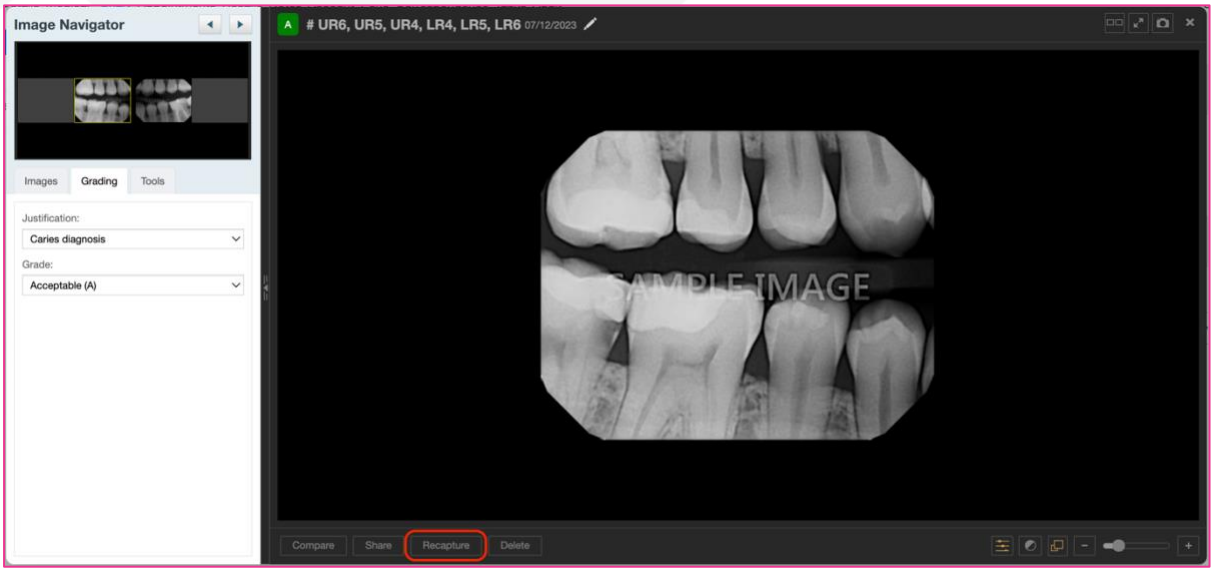
The Grade for each image can be edited after the Acquisition of each image using the **Grade** dropdown.



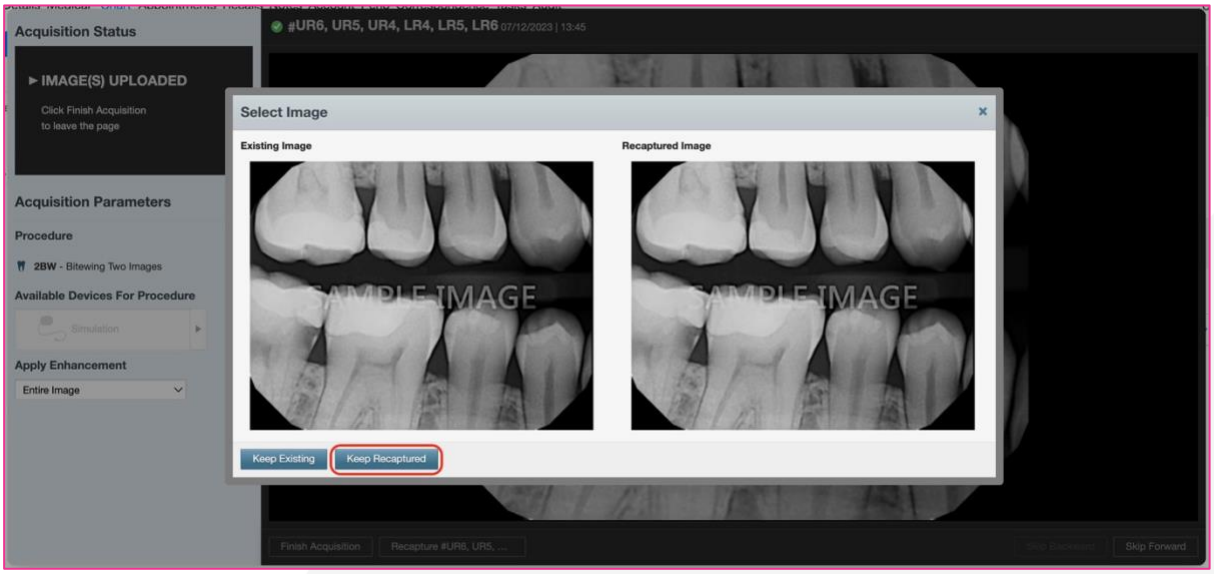
Where an image is deemed to be unacceptable, set the grade to **Not Acceptable(N)** which will then display the **Rejected Image Note** field and will change the Header icon to a red **N**.

Recapture Workflow and Grading

When an image is not acceptable and needs to be recaptured, select the **Recapture** button

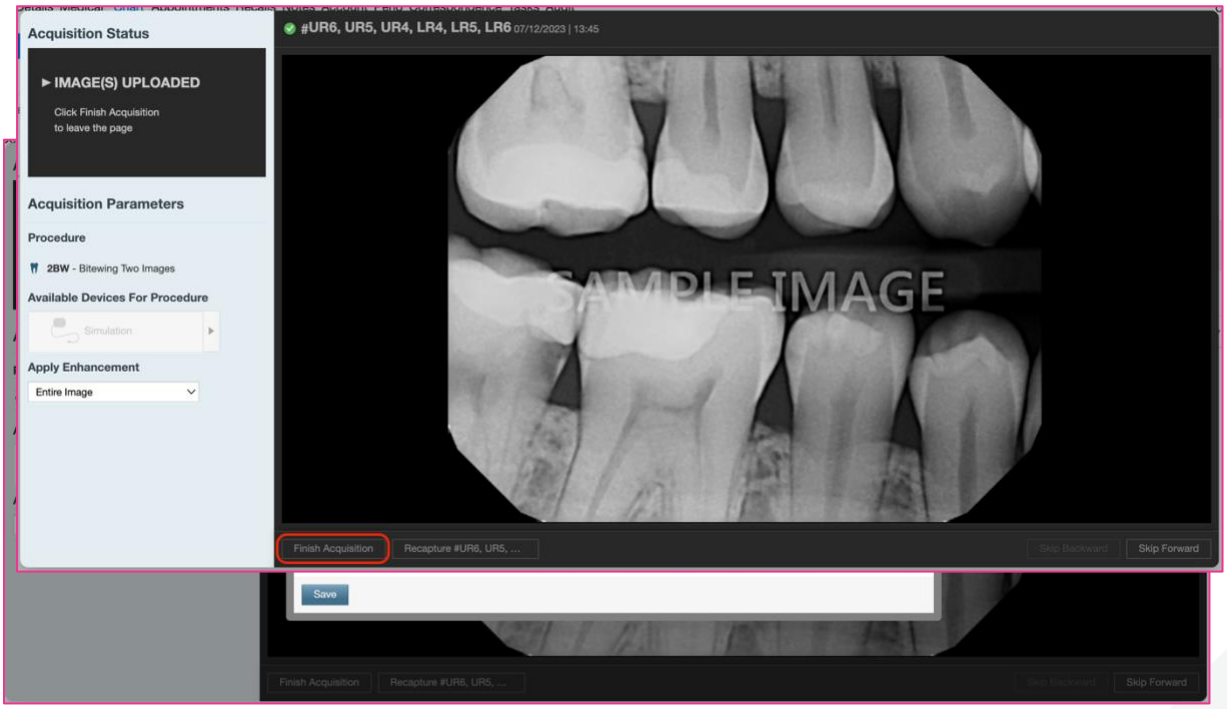


Complete the recapture workflow and select which image you'd like to keep.



Dentally Vision will automatically set the grade of the image that is **not kept** to **Not Acceptable** and give the option to enter a **rejected image note.**

Finish the Recapture Workflow



Note that the **kept** image is set to the **Acceptable** grade automatically but can edited in the grading tab on the left toolbar.


Image Navigator
Images
Grading
Tools
Justification:
Caries diagnosis
Grade:
Acceptable (A)
UR6, UR5, UR4, LR4, LR5, LR6 07/12/2023
SAMPLE IMAGE
Compare
Share
Recapture
View Recaptured
Delete

Modifying imaging acquisitions

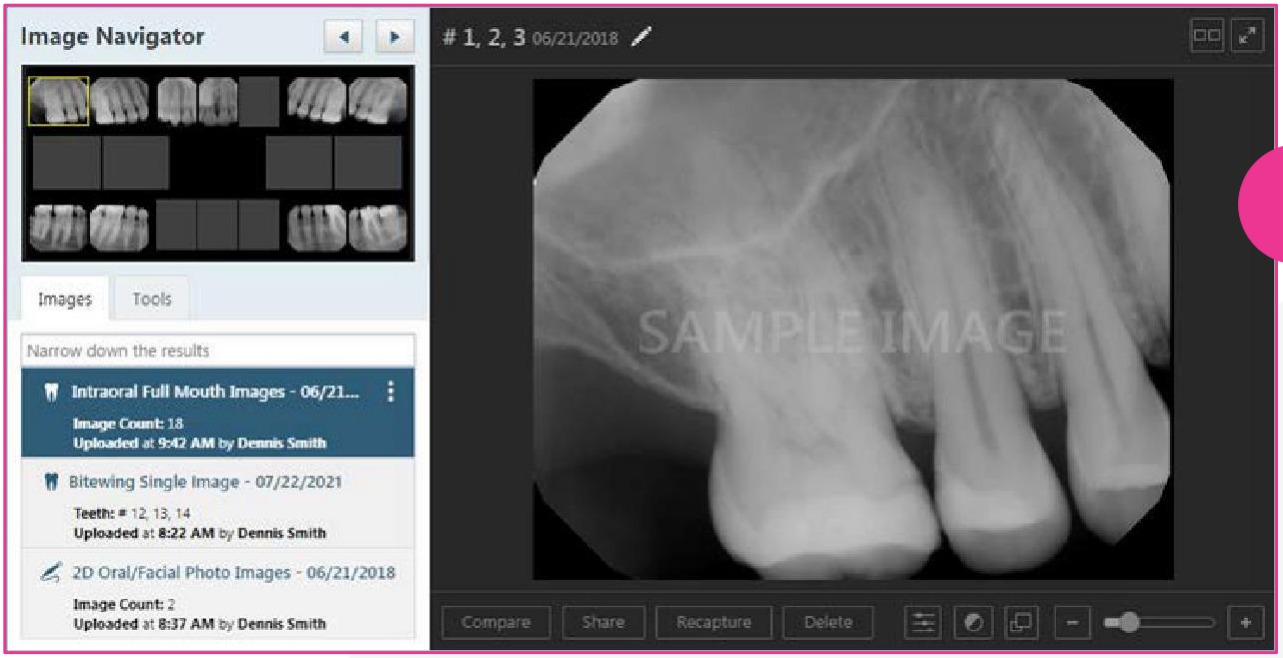
You can resume an incomplete series or set, retake images, recover missing images, rearrange images in a series, rename an acquisition, change an acquisition date, and assign tooth numbers to images.

Resuming incomplete imaging series

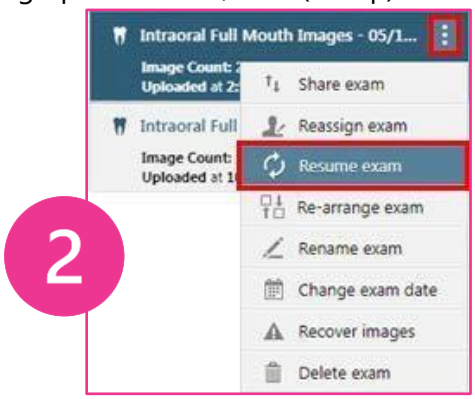
If you acquired images using an imaging procedure for a series of intraoral X-rays, but you skipped the acquisition of any of the images in the series or cancelled the acquisition of the series before acquiring all the images, you can return to that set and complete the image acquisitions as needed.

To resume an incomplete imaging series

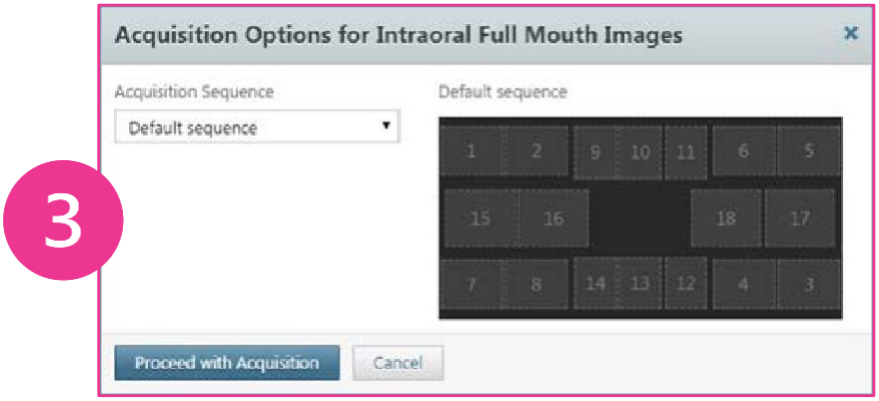
- Ensure the correct patient is selected.
- In the Patient Chart, click cloud imaging, then, click on an image.
- Click the images tab on the left to show the Image History.
- The most recent image, series (such as a full mouth series or bitewings), or set of photos is selected by default on the Images tab, as shown in image one below.



- Select a series (such as a full mouth series or bitewings).
- On the corresponding options menu, click (or tap) **Resume exam**.



- The Acquisition Options dialog box appears, under **Acquisition sequence**, select "Default sequence".



- If you are using phosphor plates to acquire one or more images, before continuing, acquire the radiographs as needed.
- Click Proceed with Acquisition.
- The options for acquiring images in the series appear.
- Acquire one or more intraoral X-rays according to the type of device that was used to acquire the images in the series originally.

Missing Image

The first step with a missing image in the acquisition sequence for the template is selected automatically (as indicated by the green, numbered box) on the sequence diagram, and the applicable teeth are selected on the **Tooth status** chart for your reference. as seen below in image one.

The X-ray sensor becomes ready for exposure or if importing images, the **Import File** dialog box appears for selection of the correct image

If you acquired an image for a step in the acquisition sequence that already has an image, the **Select Image** dialog box appears. Click either **Keep Existing** to keep the original image or **Keep Recaptured** to replace the original image with the new image.

Note: The original image and all recaptured images are saved to the patient's record.

- A preview of the resulting image appears. Then, the X-ray sensor becomes ready for exposure.

Replace Image

- To replace the image that you acquired in the previous step of the acquisition sequence, click (or tap) **Recapture [teeth]**.
- Acquire or Import the new image. The **Select Image** dialog box appears.
- Click either **Keep Existing** to keep the original image or **Keep Recaptured** to replace the original image with the new image, as seen in image three.

Note: The original image and all recaptured images are saved to the patient's record.

Skipping ahead

To skip ahead in the acquisition sequence by one step…

- Click (or tap) **Skip Forward** (this button is available only if the current step in the sequence is not the last step).
- Then, click (or tap) **Capture [teeth]** (if the current step in the acquisition sequence is missing an image) or **Recapture [teeth]** (if the current step in the acquisition sequence has an existing image) to resume the acquisition.
- To go backward in the acquisition sequence by one step, click (or tap) **Skip Backward** (this button is available only if the current step in the sequence is not the first step).

- Then, click (or tap) **Capture [teeth]** (if the current step in the acquisition sequence is missing an image) or **Recapture [teeth]** (if the current step in the acquisition sequence has an existing image) to resume the acquisition.
- Repeat the steps above as needed to acquire other images in the series.
- Click (or tap) Finish Acquisition.

Once you have finished your acquisition and exited Dentally Vision, **note** that in the associated treatment plan, new treatment items will have been added automatically if applicable.

For example, if a two bitewing examination was left incomplete after a single image was taken, the treatment plan would appear like image four below, with a single bitewing image treatment

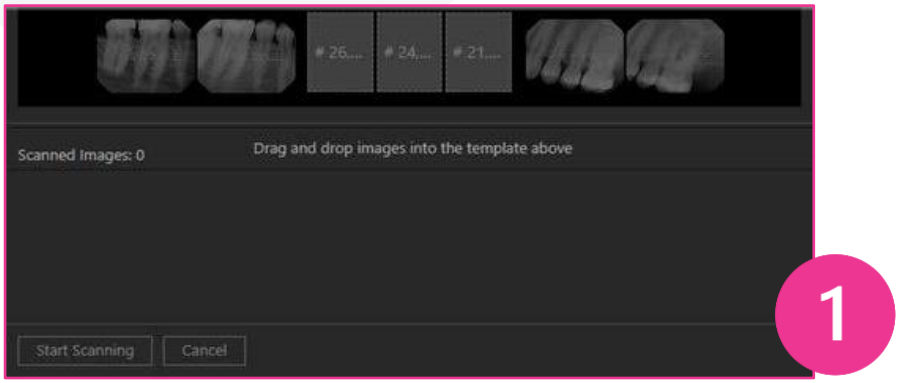
item.

- After resuming and finishing the exam as described above, treatment items are automatically added if applicable; in this example, we began a two-bitewing examination so we expect a total of two bitewing image treatment items. The second bitewing treatment item is added automatically for us at the end of the resume workflow as shown below in image five.

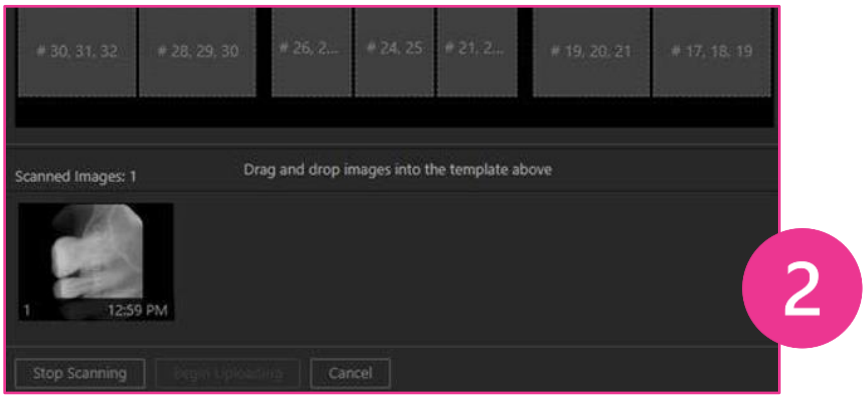
- Note: Australian treatment codes used in this example.

Modifying a Series of images with a phosphor plate scanner

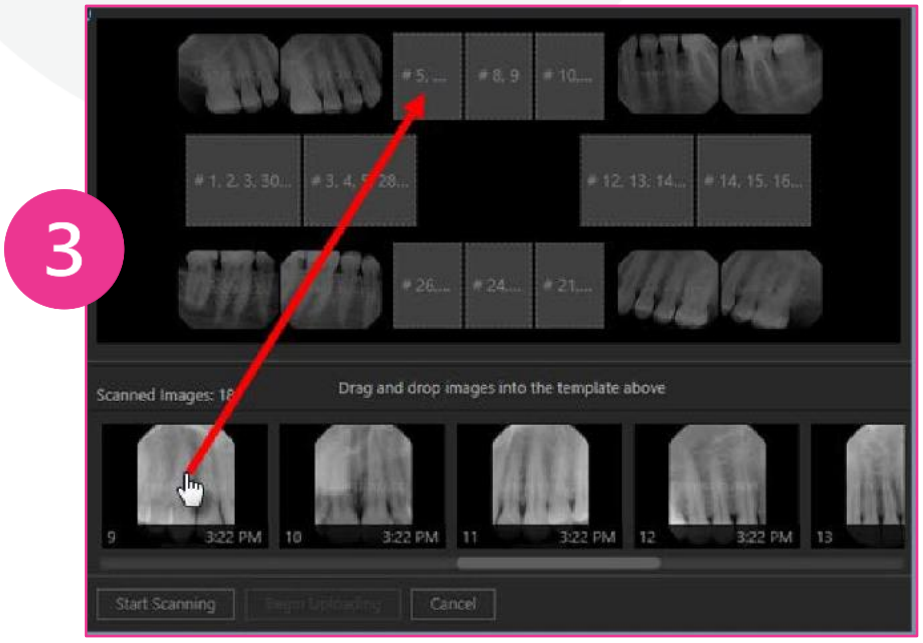
- Click **Start Scanning** (bottom left of image one)



- As the scanner finishes scanning a plate, the resulting image appears as a thumbnail image on the panel at the bottom of the Dentally Vision program. (see image two)



- After all the plates have been scanned, one at a time, drag the thumbnail images from the panel to the correct boxes of the template as seen in image three.



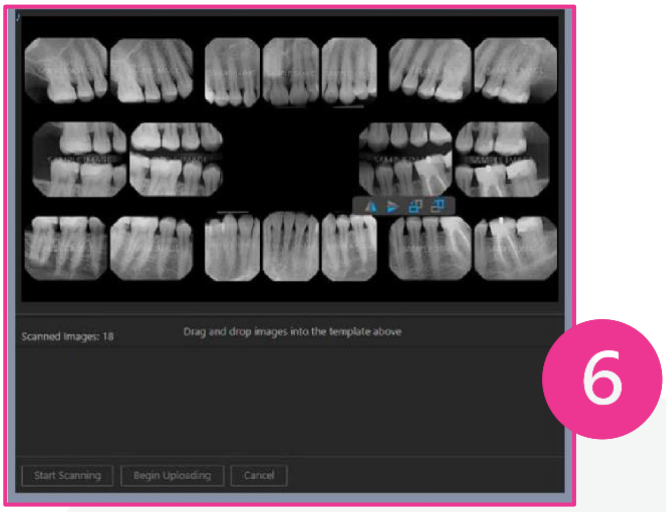
Note: If the orientation of the phosphor plates were correct when the radiographs were taken and when inserted into the scanner, the images will have the correct orientation in the series. When you drop a thumbnail image into a box of the template, the image is rotated automatically as needed for that position in the series.

As needed, do any of the following:

- To change the orientation of a new 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 Counter clockwise** (90 degrees), and/or **Rotate Clockwise** (90 degrees). As seen in image four.

- If you drag a thumbnail image from the panel to a box of the template that already has an image, or if you drag a new image from one box of the template to another box that already has an image, the **Select Image** dialog box appears as seen in image five. Click either **Keep Existing** to keep the original image or **Keep Recaptured** to replace the original image with the new image.

- The original image and all recaptured images are saved to the patient's record.
- To swap two new images in the template, drag a new image from one box of the template to another box with a new image.
- To remove a new image from the template, drag it back to the panel at the bottom.
- Click **Begin Uploading** to save the mounted images to the patient's record. (as seen in the middle bottom of image six)



Note: If you are left with some images in the '**Scanned Images'** when you click '**Begin Uploading'**, the recovery message will appear. This message allows you to choose one of three options;

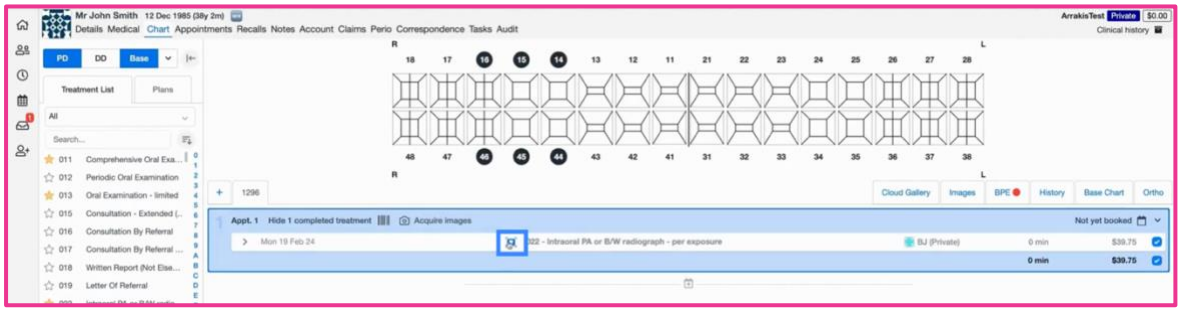
- **Send images to Recovery** – This means the images that have been left unmounted will be saved against the patient and the next time you go to take x-rays for them the images will appear in the scanned images section.
- **Discard Images** – Discarded images will be lost and permanently deleted. These are not recoverable.
- **Stay on page** – This will take you back to the acquisition screen and the uploading process will **NOT** begin.

Resuming a phosphor plate exam

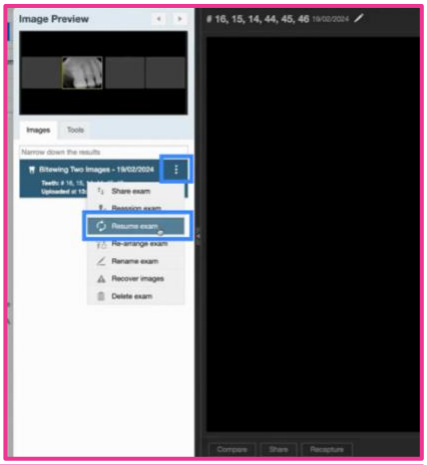
There are two ways to resume a phosphor plate exam, either through using previously recovered images or through resuming and acquiring new images.

Resuming and acquiring new images

Open Dentally Vision from the view images icon next to the charted item on the treatment plan.

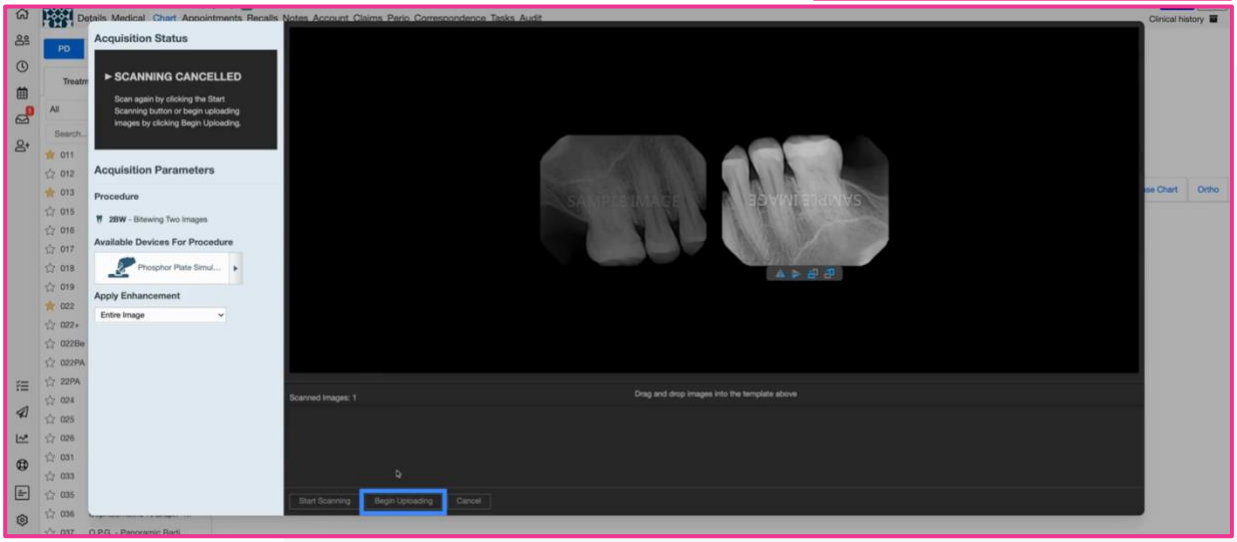


Under the images tab on the left click the three dots menu button next to the examination you wish to resume.

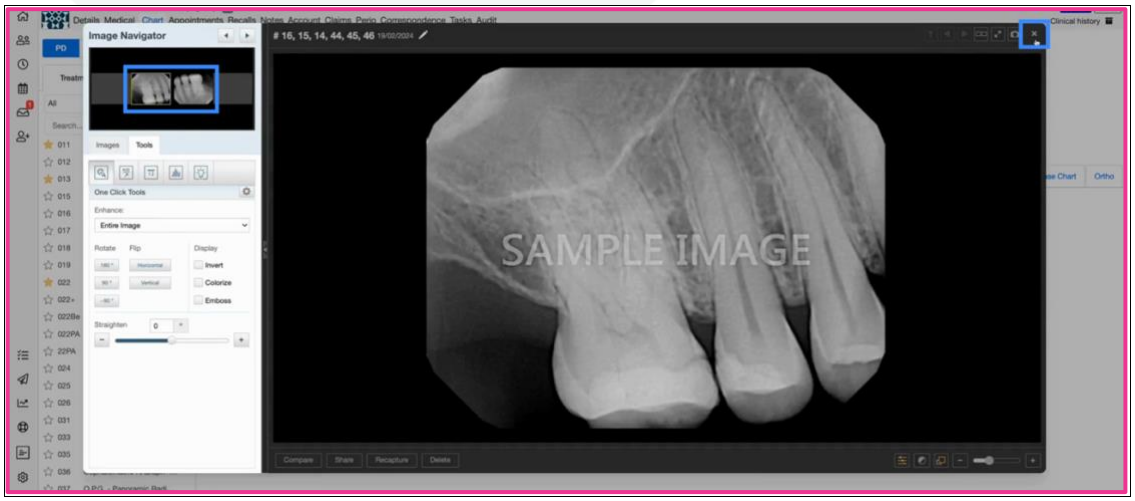


Then click on **'Resume exam'** this will open up your acquisition window for you to continue to start and stop scanning as usual.

After acquiring the rest of the images needed, drag and drop them into place and then click **'Begin uploading'** at the bottom of the screen. This will upload them to the cloud ready for you to view directly through Dentally.

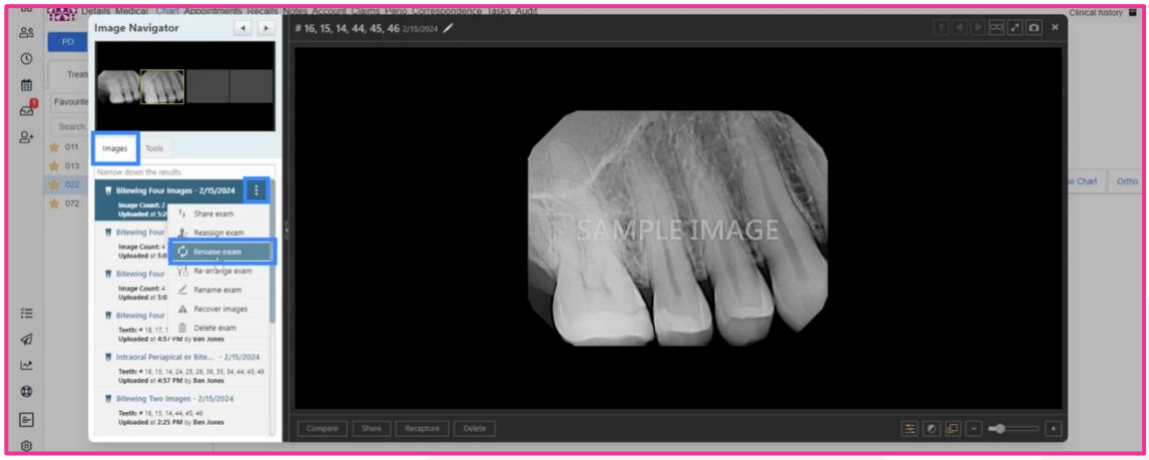


After uploading you will be taken back to the navigator screen, where you can use the tools to edit the images as needed, or you can simply close the window to go back to the patient's chart in Dentally.

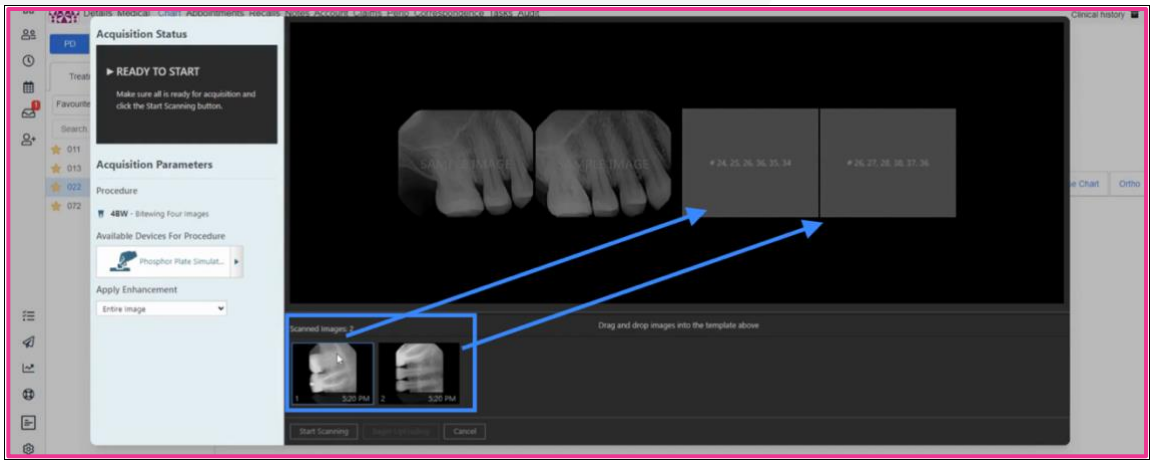


Resuming and using recovered images

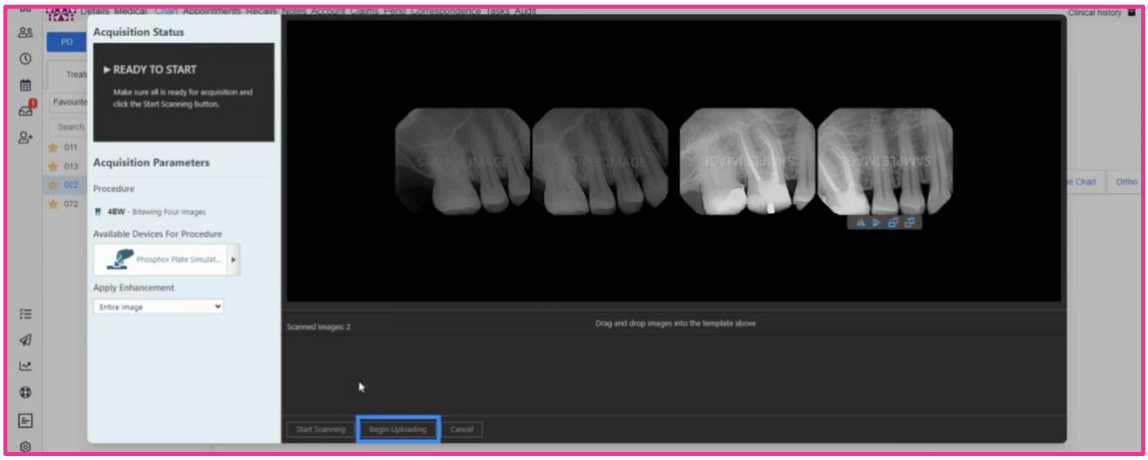
To use recovered images in a resumed examination, you can resume the exam using the menu button (three dots) next to the appropriate exam and clicking on **'Resume exam'**



This will load the acquisition screen with the previously recovered images already loaded in the **'Scanned images'** section at the bottom.



You can then simply drag and drop the images already in your '**Scanned images'** into the correct space on the exam before clicking '**Begin uploading**'.



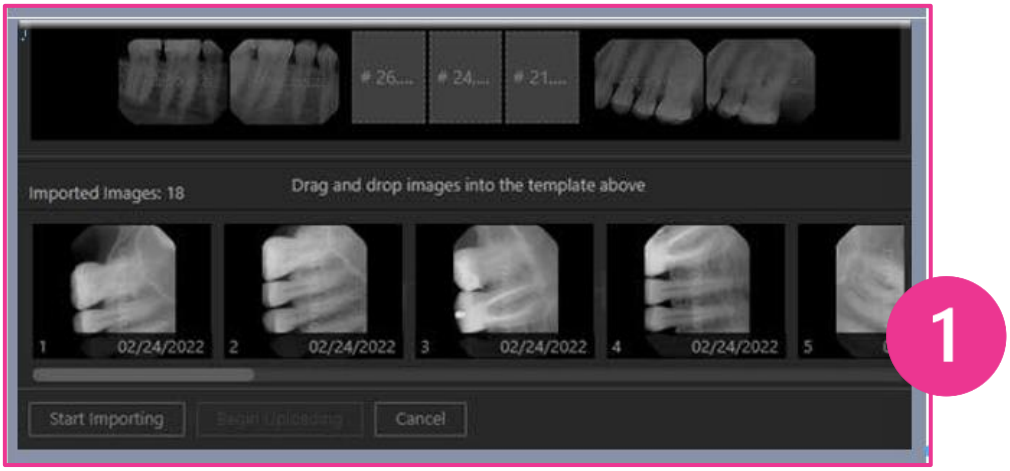
Remember that you can choose to add multiple images to the same location on the template to create a stack of images against that tooth.

Modifying a series of images with a third-party program (TWAIN or bridge)

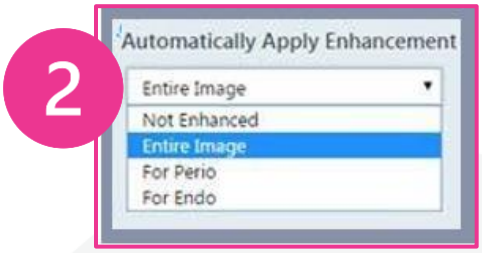
Use the options in the third-party TWAIN interface or imaging program that opens to get ready to acquire images.

Close the third-party TWAIN interface or imaging program.

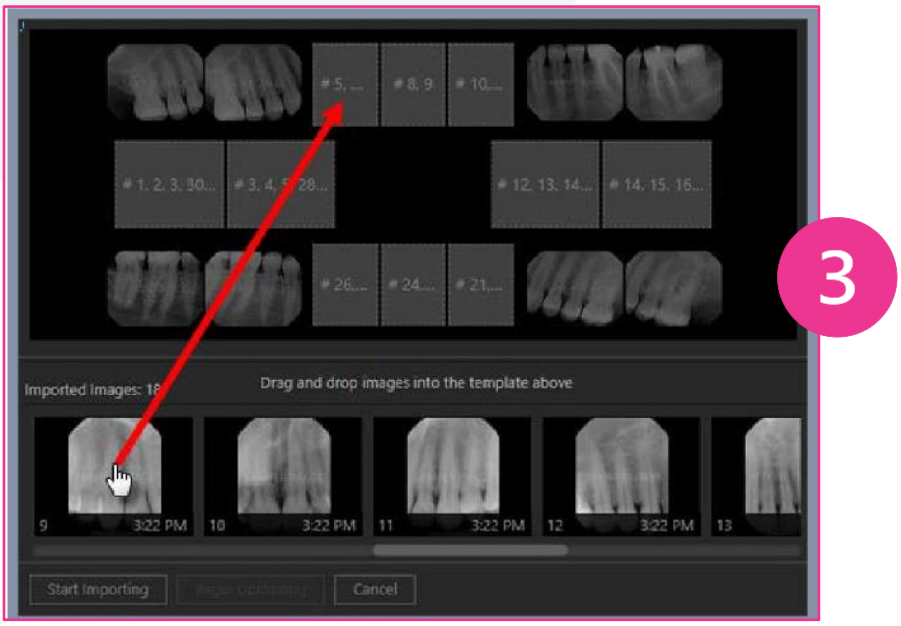
The images that you acquired in the third-party imaging program appear as thumbnail images on the panel at the bottom of the Dentally Vision program. As seen in image one below.



From the **Automatically Apply Enhancement** list, select the type of enhancement that you want to have applied automatically to the acquired images (**Entire Image**, **For Perio**, **For Endo**), or select **Not Enhanced** to not apply any enhancement. Demonstrated below in image two.



One at a time, drag the thumbnail images from the panel to the correct boxes of the template, this can be seen in image three below.



As needed, do any of the following:

To change the orientation of a new 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 Counter clockwise** (90 degrees), and/or **Rotate Clockwise** (90 degrees). As highlighted in image four.

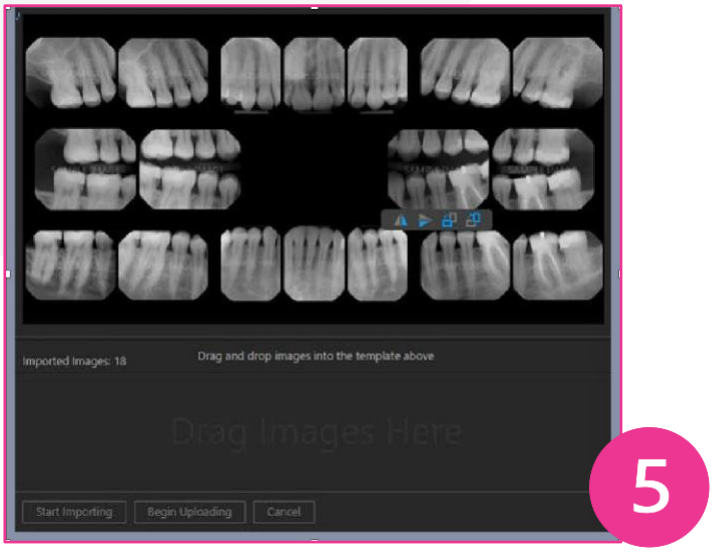
If you drag a thumbnail image from the panel to a box of the template that already has an image, or if you drag a new image from one box of the template to another box that already has an image, the **Select Image** dialog box appears. Click either **Keep Existing** to keep the original image or **Keep Recaptured** to replace the original image with the new image.

Note: The original image and all recaptured images are saved to the patient's record.

To swap two new images in the template, drag a new image from one box of the template to another box with a new image.

To remove a new image from the template, drag it back to the panel at the bottom.

Click **Begin Uploading** to save the mounted images to the patient's record as seen at the bottom of image five.



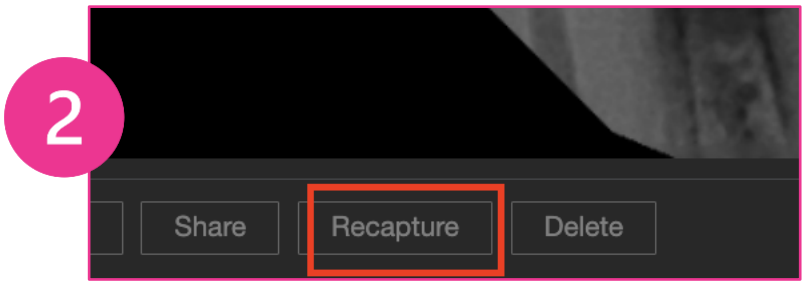
Note: If not all thumbnail images have been mounted to the template when you click **Begin Uploading**, a confirmation message appears. If you choose to continue, only the mounted images will be saved to the patient's record.

Recapturing Images

You can retake / recapture an image in an exam or one or more images in an exam with a series of images.

- Ensure the correct patient is selected.
- In the Patient Chart, click Cloud Imaging, then, click on an image.
- Click the image tab on the left to show the Image History, show in image one below.

- Select the image you want to recapture. It will appear in the viewing area
- Click on the **Recapture** button, highlighted in image two, in the bottom left of the image viewer.



- When the X-ray sensor becomes ready for exposure, acquire the image.
- The **Select Image** dialog box appears.

- Click on either '**Keep Old'** to keep the original image or '**Keep New'** to replace the original image with the new one, as seen in image three.

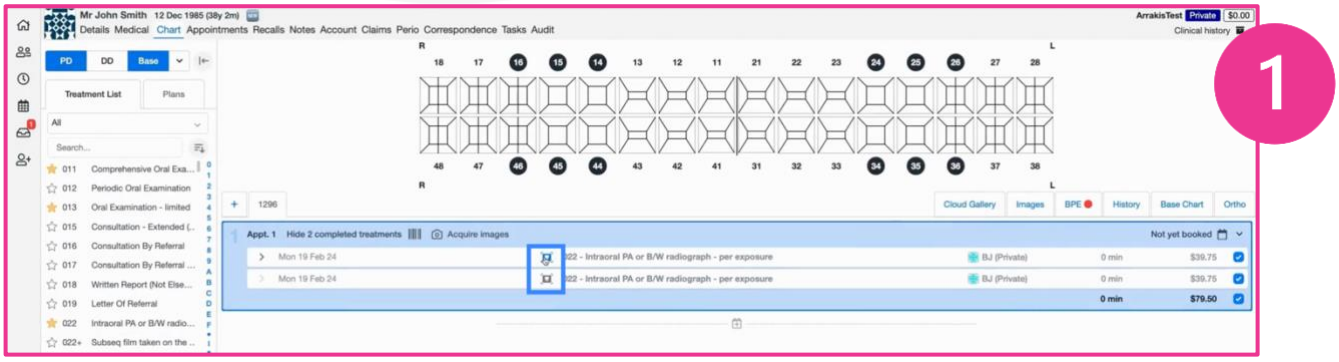
The '**Delete rejected image**' tick box will be **un**ticked by default. When this option is ticked, the old image will be deleted. If this option is unticked, both the new and the old image will be retained in the exam.

- The original or recaptured image appears in the viewing area. As seen in image four below.

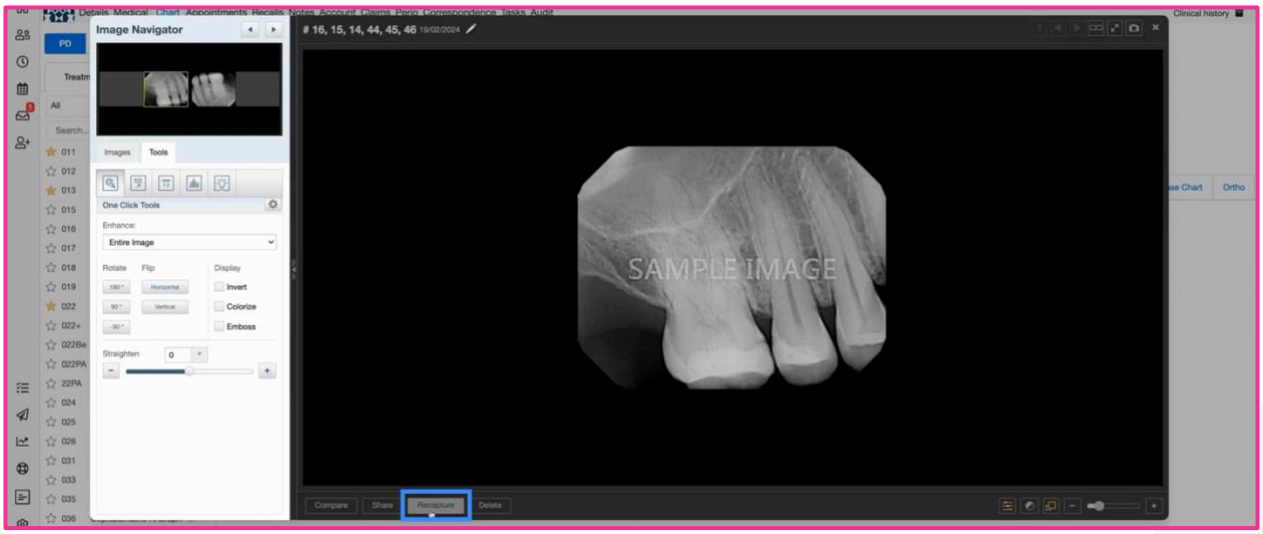
- Click '**Finish Acquisition'**. As seen at the bottom of image four.
- The same process can be followed for recapturing images in a series of images.
- To retake other images in the series, click '**Skip Backward'** or '**Skip Forward'** as needed to navigate to the correct step in the acquisition sequence for the template and then click '**Recapture**'

Phosphor plate recapture workflow

Navigate to the image you wish to recapture, either by loading the image from the chart icon as shown below or by navigating to the '**Cloud Imaging' tab** and choosing the image you wish to recapture.

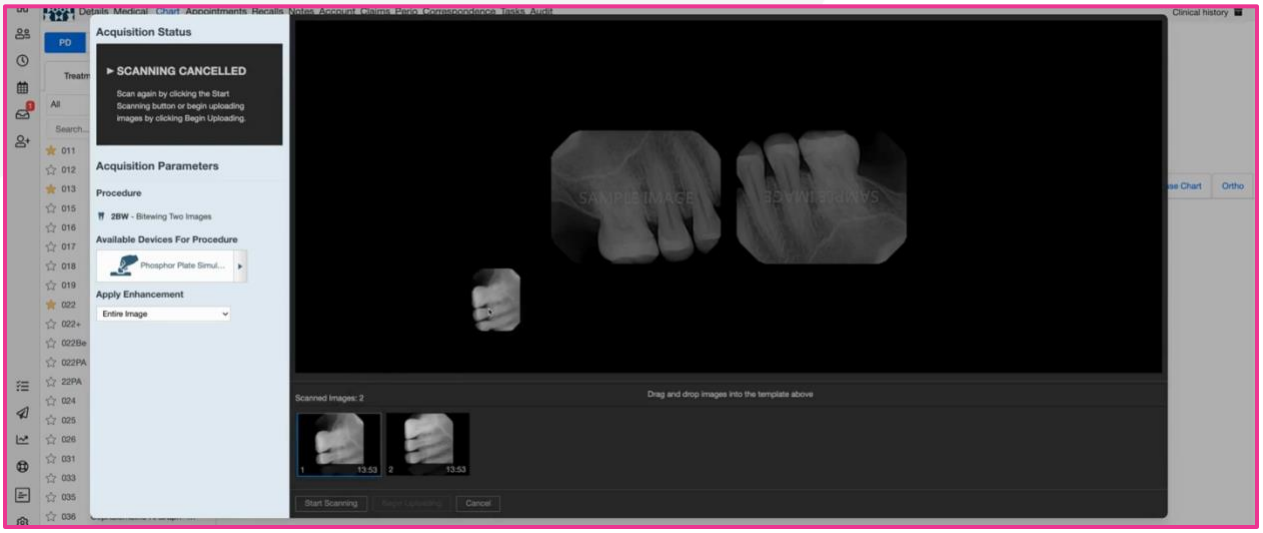


Once in Dentally Vision, Click on the **'Recapture'** button at the bottom of Dentally Vision. This will redirect you back to the acquisition screen where you can continue to start and stop



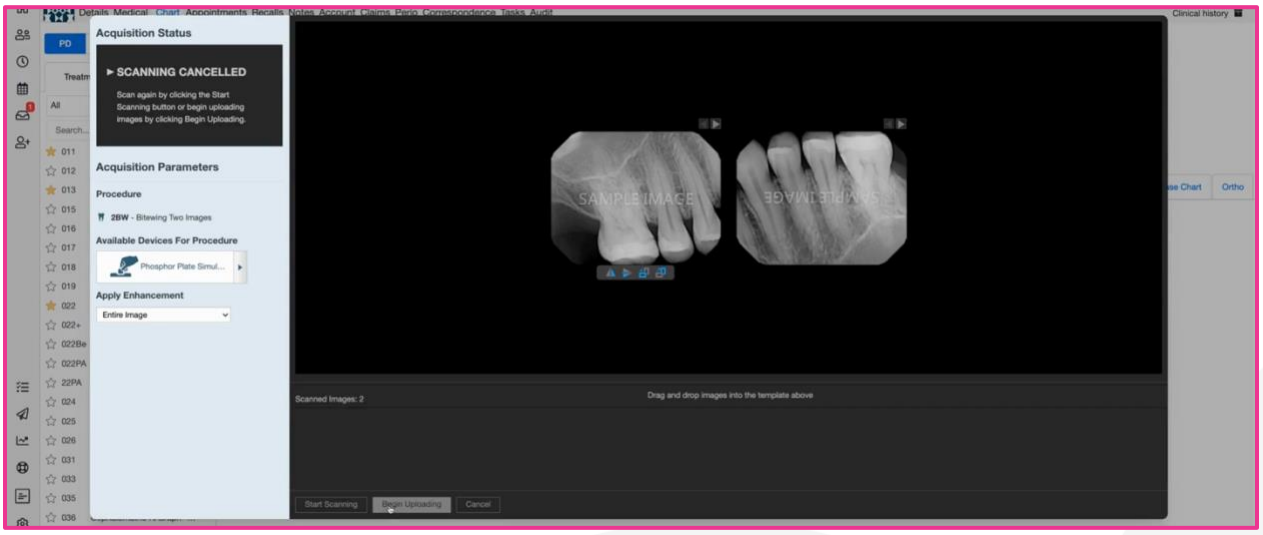
scanning.

Once you have acquired the new images, you will see them at the bottom of the screen, from here you can simply drag and drop them over the top of the previously captured images. 👇



Remember, you can stack images on top of each other as needed, allowing you to scroll through previously acquired images using the left and right arrows.

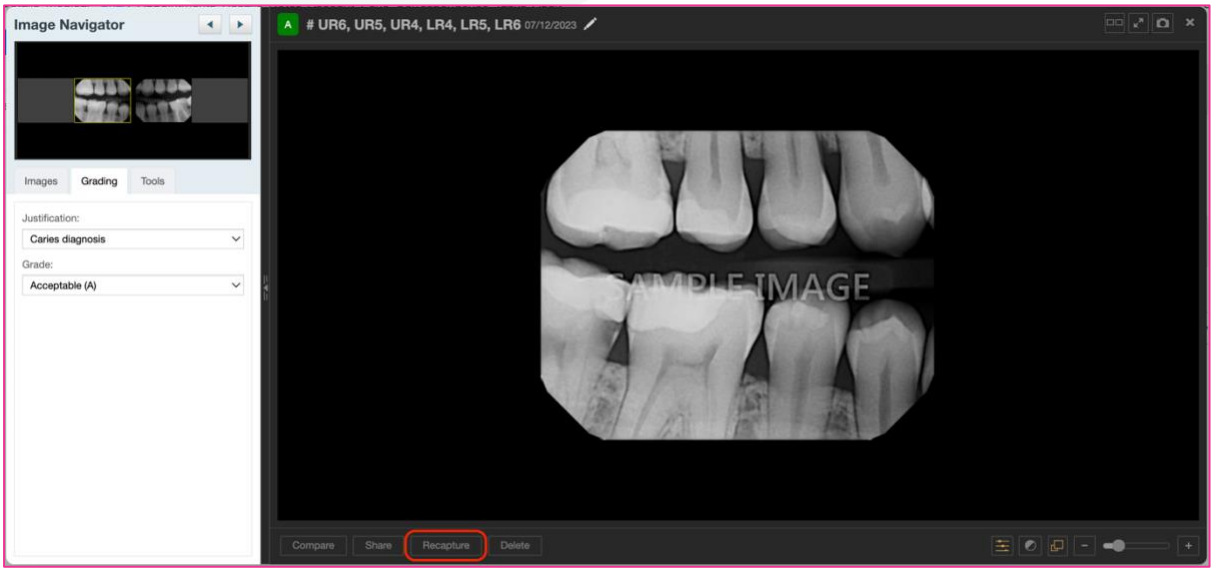
Once you have replaced the images as desired, click on the **'Begin uploading'** button at the bottom of the Dentally Vision screen. This will upload them straight into Dentally.



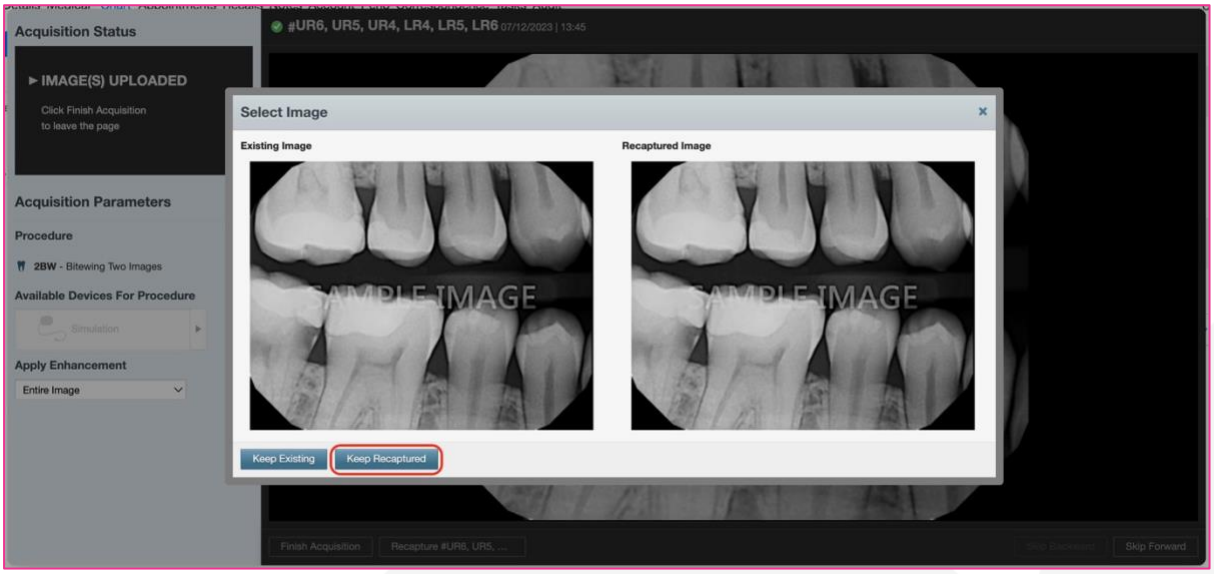
Once you have uploaded the images, you will have successfully recaptured the phosphor images. You will see the normal Image Navigator screen. From here, you can close the Vision screen to go back to the exam in Dentally.

Recapture workflow and grading

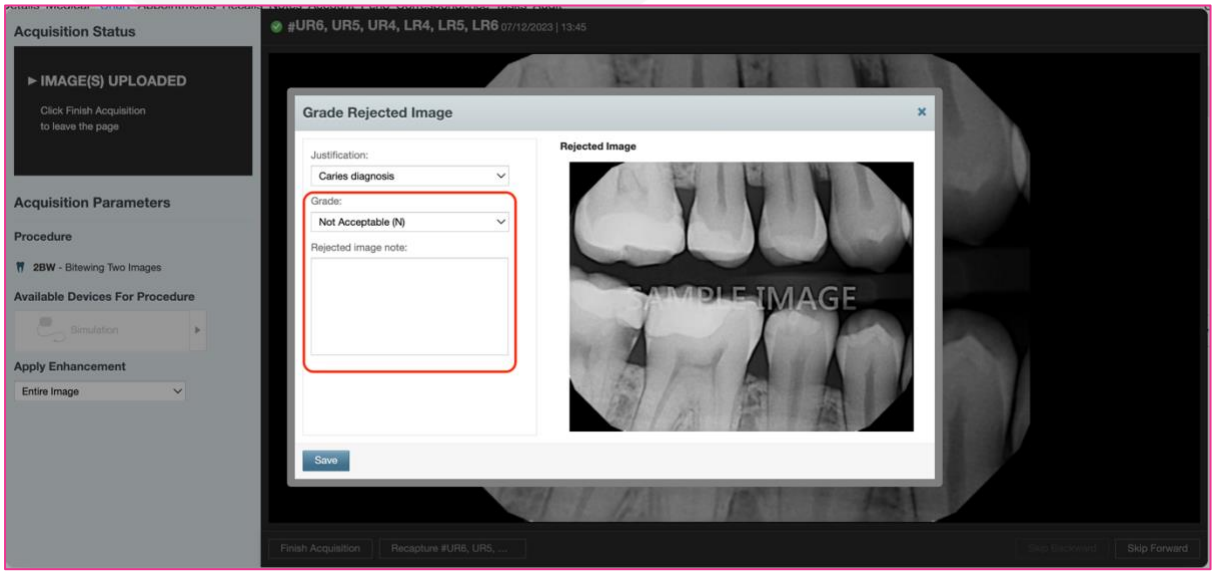
When an image is not acceptable and needs to be recaptured, select the **Recapture** button



Complete the recapture workflow and select which image you'd like to keep.



Dentally Vision will automatically set the grade of the image that is **not kept** to **Not Acceptable** and give the option to enter a **rejected image note.**



Finish the Recapture Workflow

Note that the **kept** image is set to the **Acceptable** grade automatically but can edited in the grading tab on the left toolbar.

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.

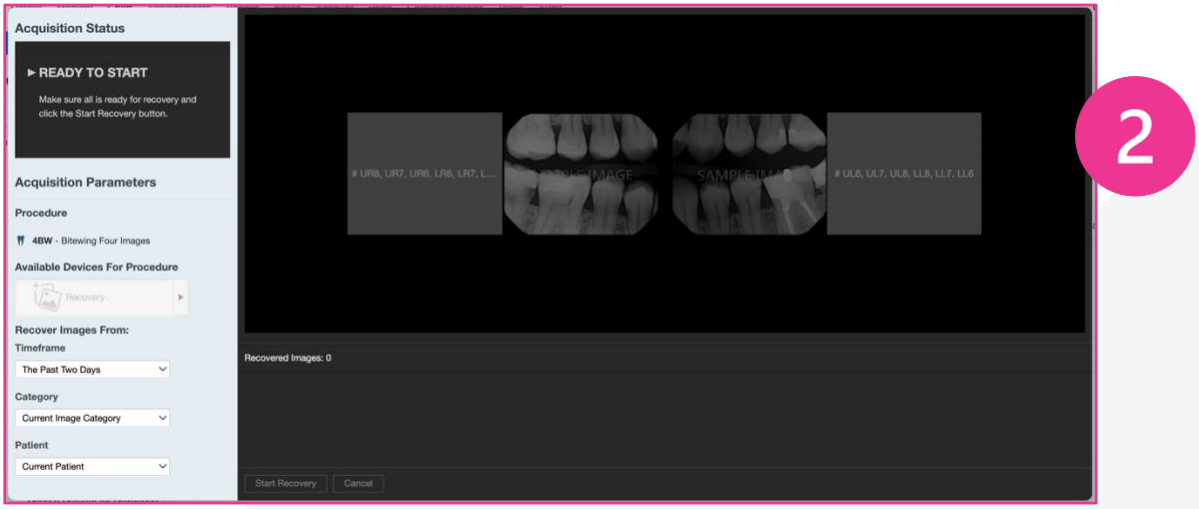
Ensure the correct patient is selected.

In the Patient Chart, click on an image. Click the **Images** tab on the left to show the Image History.

Select an image or a series (such as a full mouth series or bitewings).

On the corresponding options menu, click **Recover images**. As shown below in image one.

The options for recovering images appear, as seen in image two below.



The image recovery functionality allows you to filter recoverable images by category and

patient, in addition to timeframe filters. Filtering Options available include:

Timeframe:

- The past two days" (default)
- "All time"

Category:

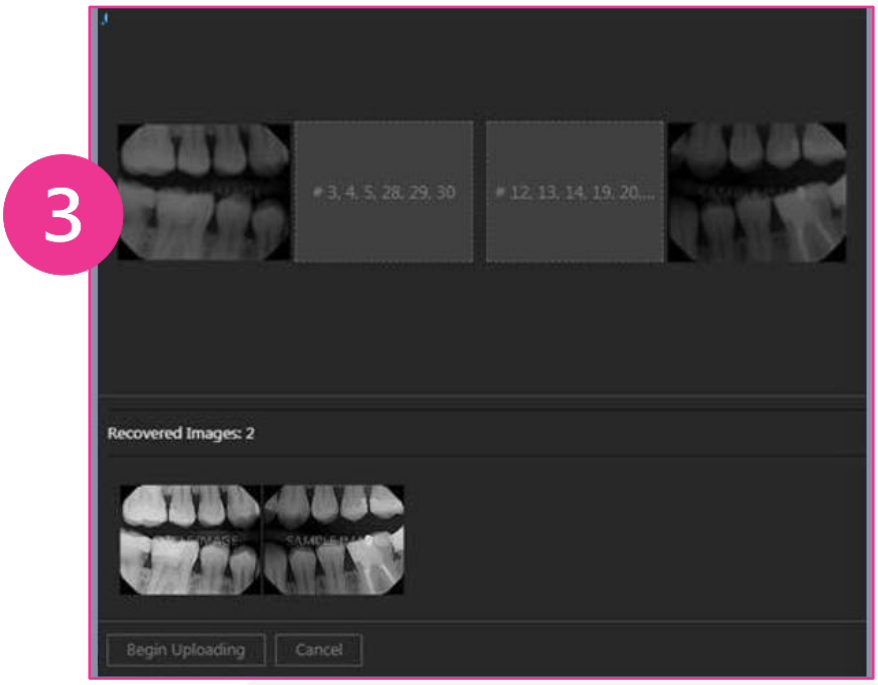
- "Current category" (default)
- "All category"

Patient:

- "Current patient" (default)
- "All patients"

To find your images choose your filters and click **Start Recovery**.

The images that can be recovered appear in the panel at the bottom of the page, as seen in image three below.



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.

Click **Begin Uploading**.

Rearranging images in series

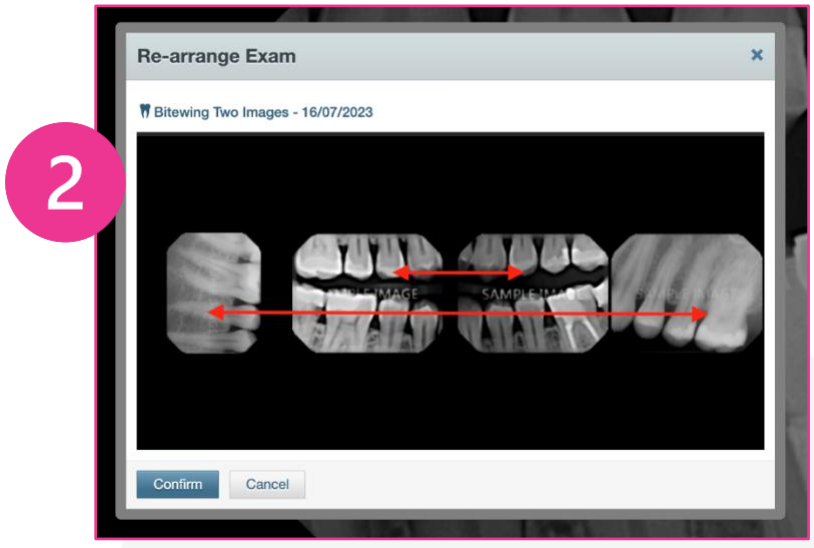
You can rearrange images in an exam that contains multiple images.

- Ensure the correct patient is selected.

- In the Patient Chart, click on an image. Click the **Images** tab on the left to show the Image History.
- Select a series (such as a full mouth series or bitewings).

- On the corresponding options menu, click **Re-arrange exam**. As shown in image one below.

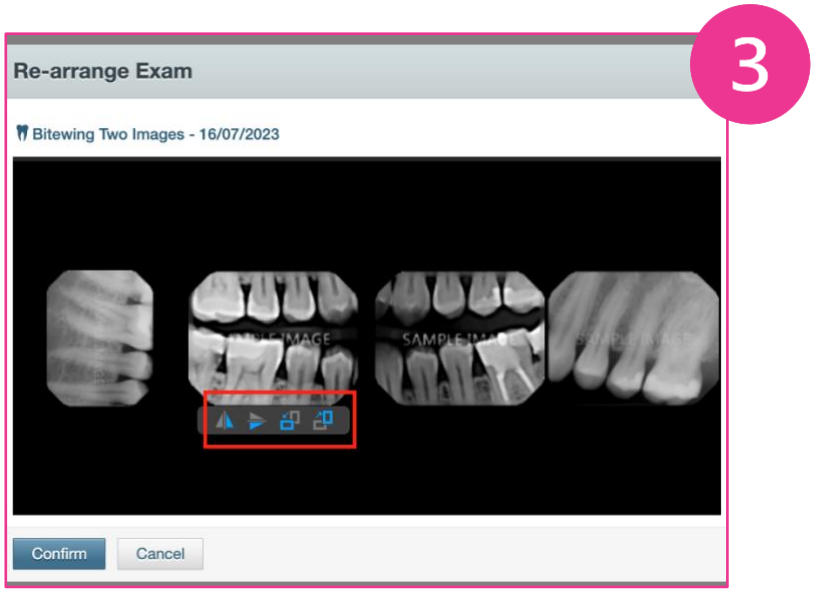
- The **Re-arrange Image** dialog box appears.



- To swap two images in the template, drag one of the images to the box with another image. As shown above in image two.

- To move an image to an empty box in the template, drag the image to that 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 Counter clockwise** (90 degrees), and/or **Rotate Clockwise** (90 degrees). As show in image three below.



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

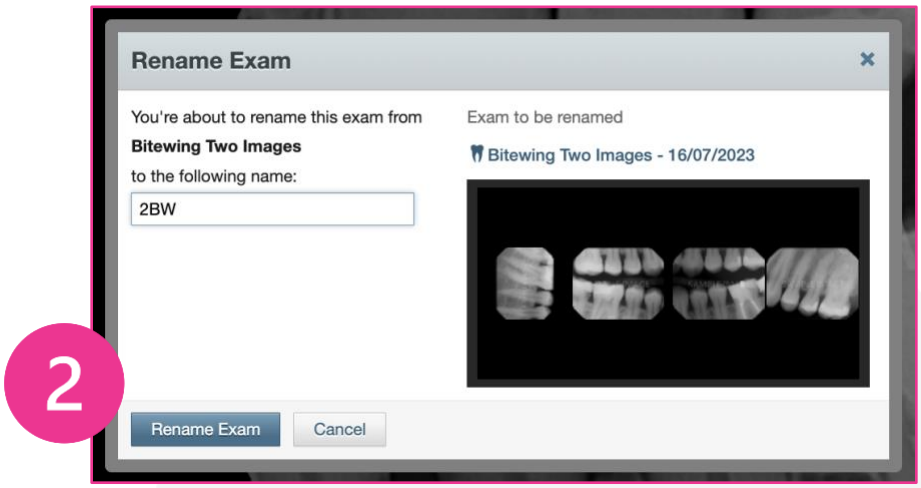
Renaming Exams

You can rename an exam as needed.

- Ensure the correct patient is selected.
- In the Patient Chart, click on an image. Click the **Images** tab on the left to show the Image History.
- Select a series (such as a full mouth series or bitewings).
- On the corresponding options menu, click **Rename exam**. As demonstrated in image one

below.

- The **Rename exam** dialog box appears.
- In the box provided, enter a new name for the exam. (image two)
- Click **Rename Exam.**

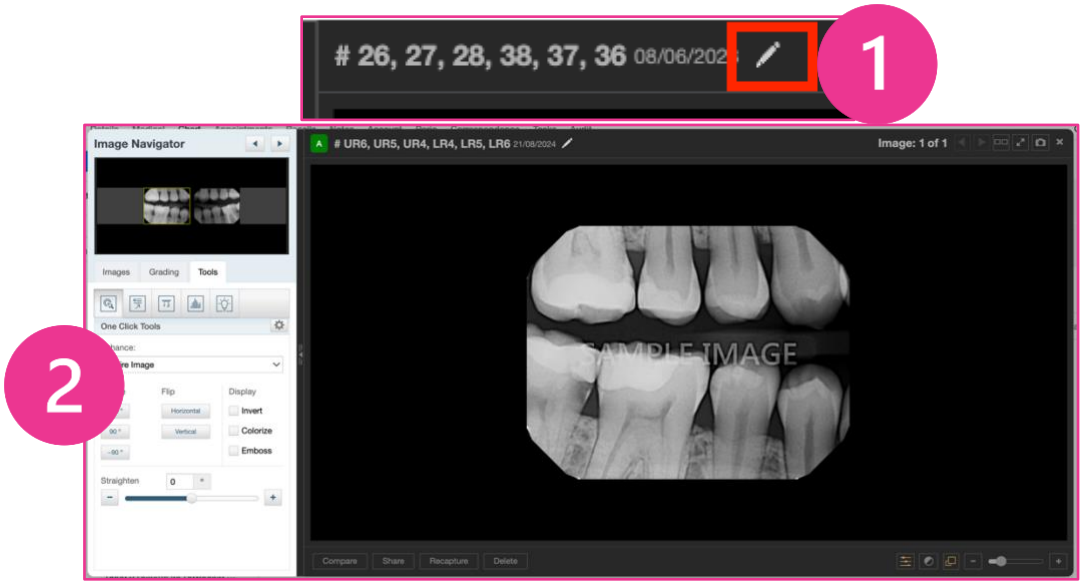


Assigning tooth numbers to images

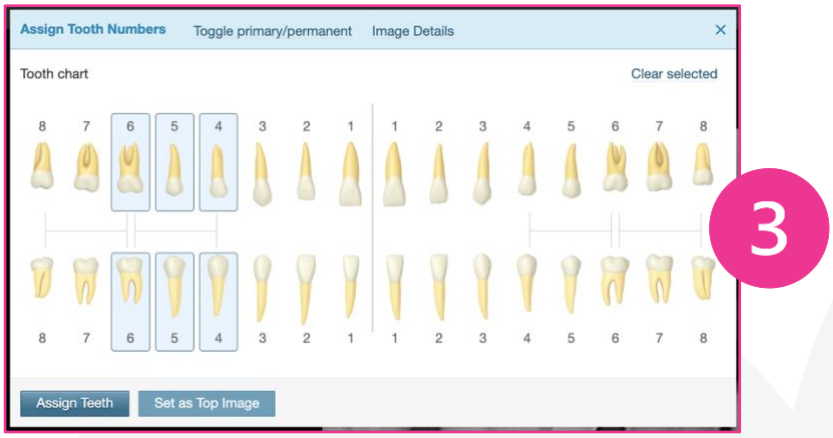
After you acquire an individual image or a series or set of images, you can assign tooth numbers to the images or change the tooth numbers that are assigned to the images as needed.

To assign or change tooth numbers for images;

- View or acquire an individual or series of intraoral X-rays, an individual or set of intraoral photos, a CAD/CAM scan, or a 3D volume or snapshot.
- In the main viewing area of the selected image, click the **Edit** button. (image one and two)



- Select the correct tooth numbers. Click **Assign Teeth**. (image three)

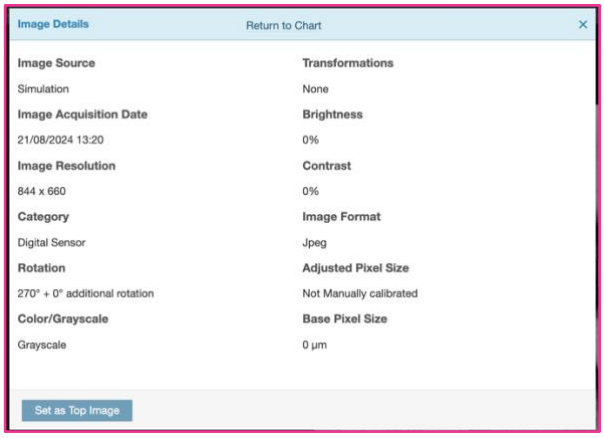


Viewing image details

You can open **Image Details** using the same Pencil icon at the top of the Dentally Vision image window. Inside **Image Details**, you will see the imaging device name or sensor the image originated from. If the specific model of the sensor is known (e.g., Schick 33 versus Schick CDR 2000), it will be displayed. If the image was imported, the source will be listed as 'Imported Image'.

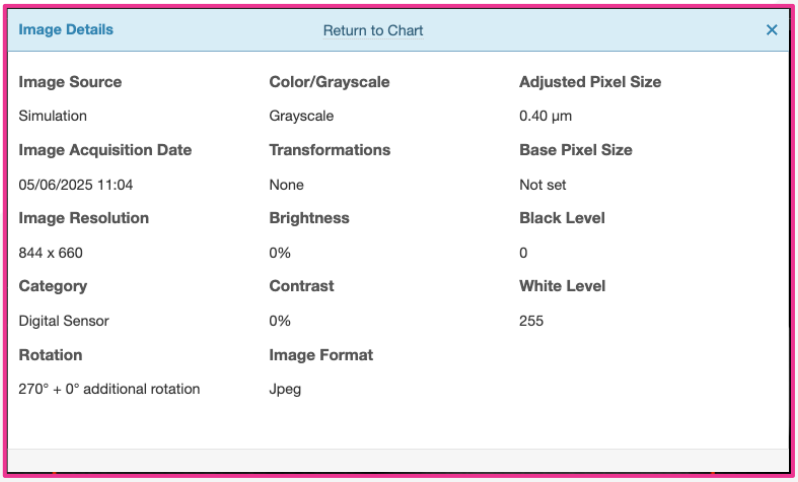
How to Use:

- Click the pencil icon from an image.
- Click on **Image Details** at the top of the Pencil's edit screen.



Enhanced Image Details screen will display:

- Image width and height based on its orientation.
- Transformations applied to the image.
- Image Source
- Image Resolution
- Category
- Rotation
- Colour/Grayscale
- Image Acquisition Date
- Brightness
- Contrast
- Image Format
- Adjusted Pixel Size
- Base Pixel Size.

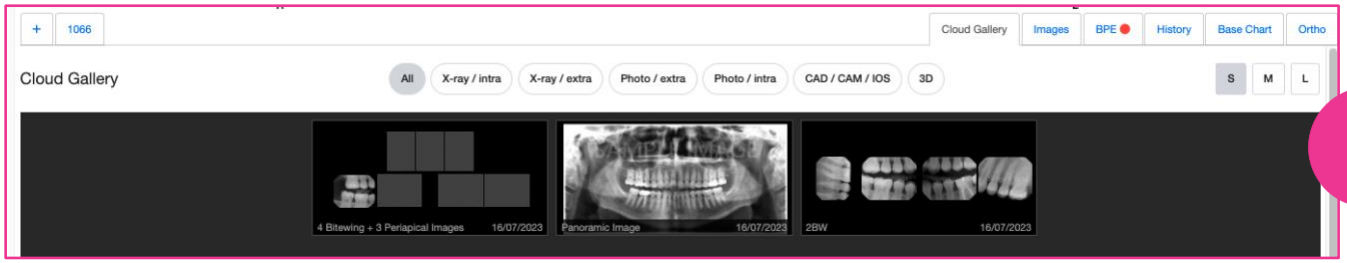


Viewing images

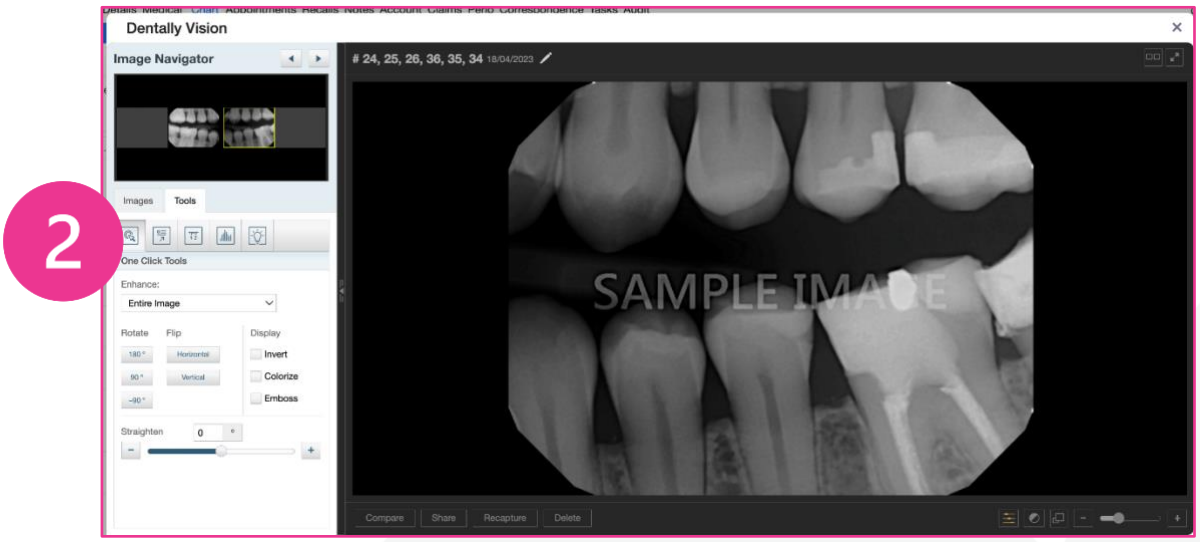
You can view the recent images and the image history for a patient. You can also quickly determine which teeth have images and view images for selected teeth.

Cloud Gallery

The Cloud Gallery will show all the images taken for that patient by date with the latest image showing first in the list or you can use the filters to find relevant images for that filter. (image one)

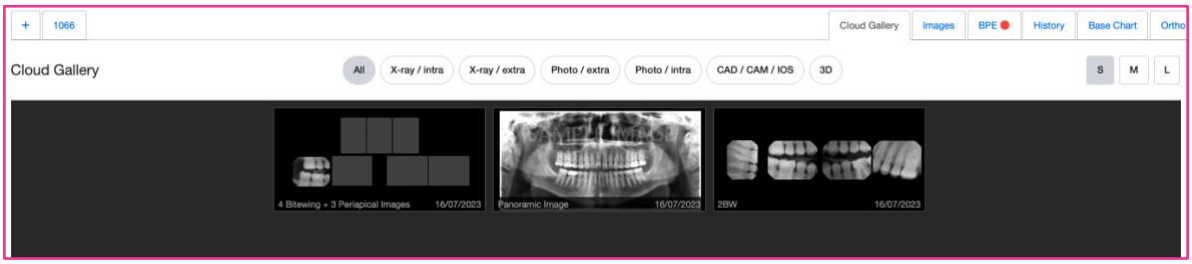


- Click on an image that corresponds to the date. The image inspector will open. (image two)
- Use the navigator if there is more than one image in the exam.
- Scroll left or right to view images before or after the selected image.



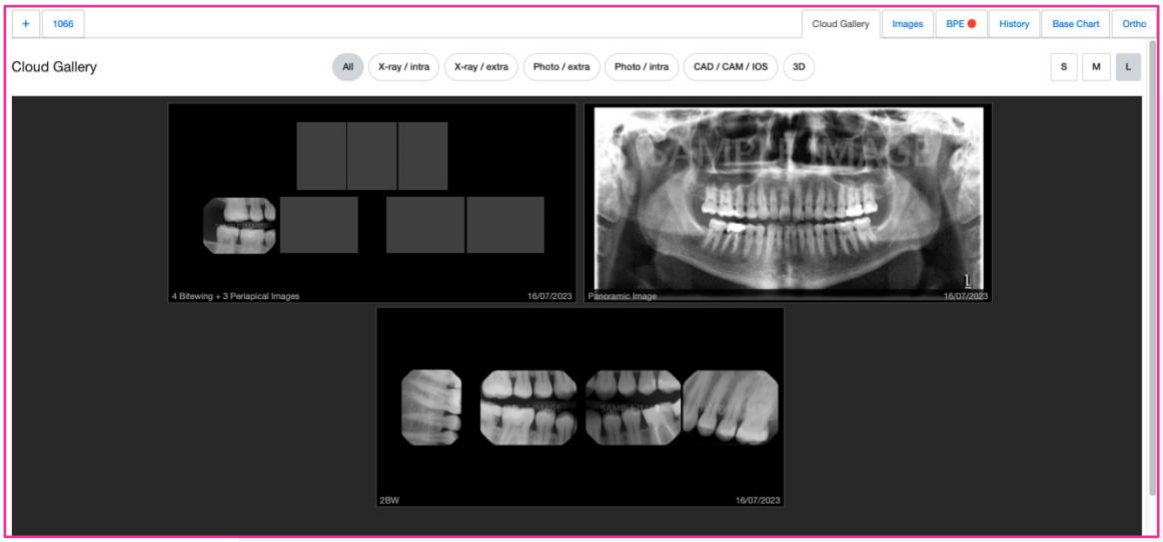
- To view the images in different sizes in the Cloud Gallery, click on the **S M L buttons** in the top right corner (image three)

Small



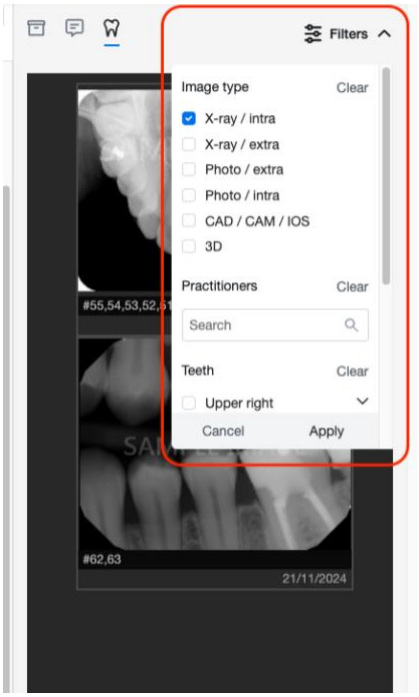
Medium

Large



Filtering the Cloud Gallery

After navigating to the '**Cloud Gallery'** tab on the patient's chart, you can filter the results to help you locate specific images.



Use the '**Filters'** icon where you can customise the viewed images by the following filters:

- **Image Type -** select the tick box (es) of the types of images you want to view
- **Practitioners** - enter the name of the practitioner you want to filter on
- **Teeth** - these can be filtered by quadrant by tooth number or a combination

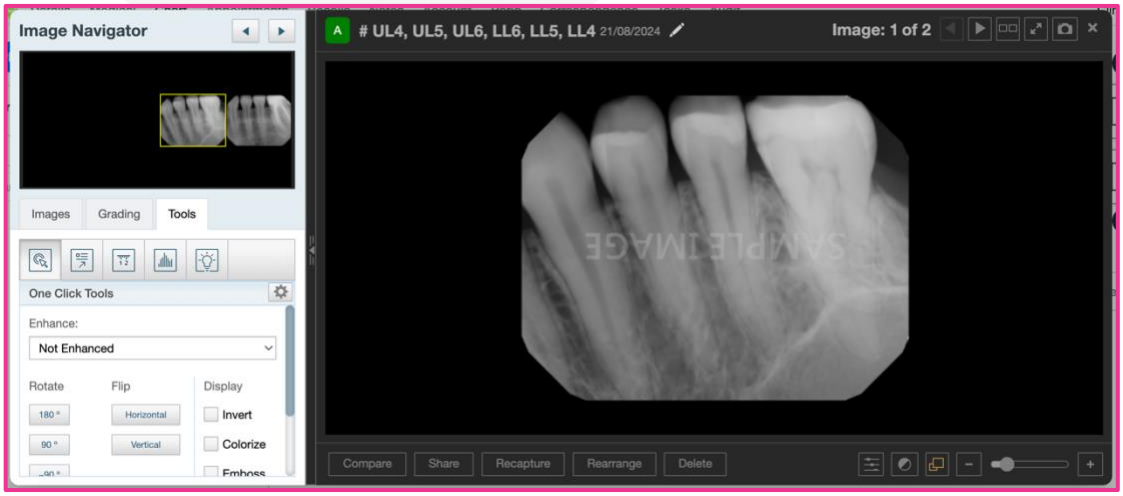
After setting up your filters, you need to click '**Apply'** to update your search.

Note: Image size selection persists across patient's but filter selection will reset to default when changing between patient records.

Please note - The same filters as above can be applied from the 'Clinical History' sidebar using the tooth icon.

Viewing stacked images

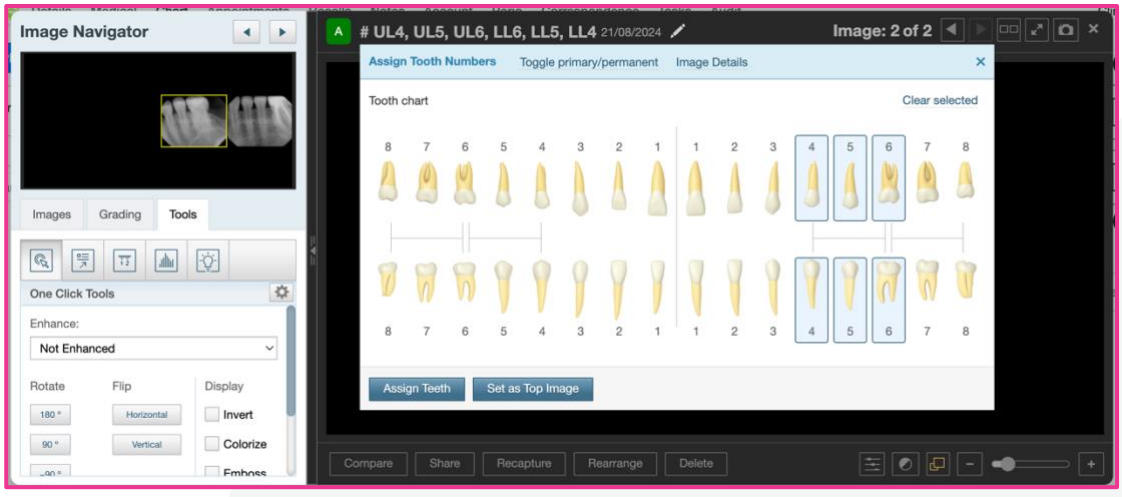
When acquiring images, phosphor plate images can be stacked to create a group in one place on the template. When viewing images taken this way, you will see the text “x of y,” where x is the current image number and y is the total number of images in the stack.



A left and right arrow button next to this text allowing you to click through the images assigned to this exam. Details to note:

- The top image in the stack is image #1.
- The header format is “x of y” (e.g., 1 of 5).
- Tooltip added to the navigation arrows above the images.

If you need to change the top image of a stack you can do so using the ‘**Set as top image’** button in the bottom left after clicking on the edit (pencil) icon menu.



Super FMX/Modality View

SuperFMX/Modality View is designed to provide greater flexibility and efficiency in imaging workflows. It allows you to choose between two workflows:

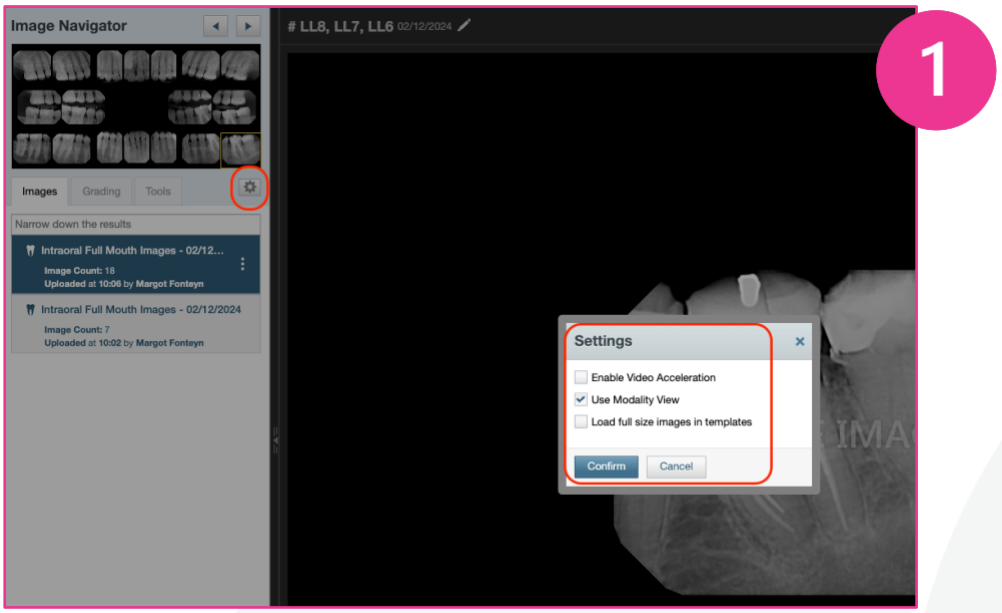
- **Exam View**: A traditional, exam-based workflow.
- **SuperFMX (Modality View)**: A new, anatomic-based workflow tailored for diverse clinical needs.

By selecting your preferred workflow, you can optimise your diagnostic process and swap your views at any time to personalise the software for your operational preferences.

How to switch views

- After loading your images in Dentally Vision click into the '**Settings**' ⚙ cog.
- Tick/Untick '**Use Modality View'** and click '**Confirm'.** Use Image one for reference.

Dentally Vision will remember your preferences, ensuring a personalised and efficient startup in subsequent sessions.



📝 **Please note** - '**Load full size images in templates'** must be ticked for DV AI to work in '**Modality view'**.

Understanding Modality views

SuperFMX includes the following modalities, each with its own dedicated tab on the left menu in Dentally Vision:

1. **Intraoral X-ray**:
    - Default: **FMX 18 Anatomical View.**
    - Options: Switch to FMX 21, Tiled View, and Flipped View.

2. **Intraoral Color**:
    - Similar options as Intraoral X-ray.

3. **Extraoral X-ray**:
    - Displays images in a **chronological tiled view.**

4. **Extraoral Color**:
    - Displays images in a **chronological tiled view.**

5. **3D Volumes/CBCT**:
    - Displays 3D volumes in a **chronological tiled view.**

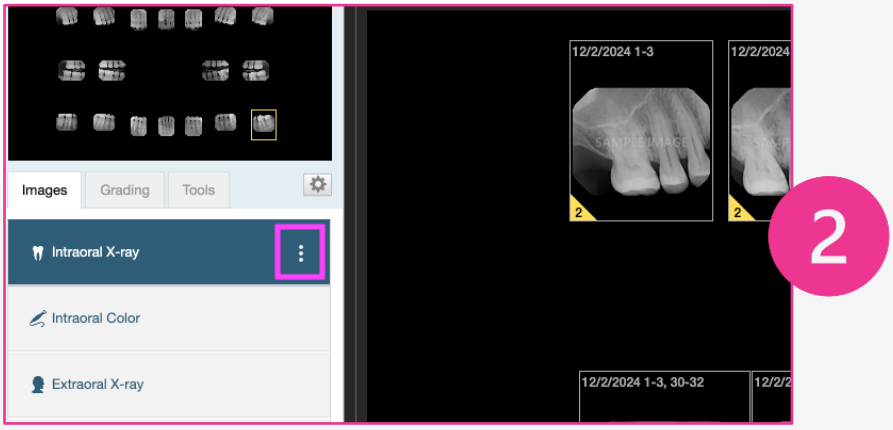
6. **CAD/CAM/IOS**:
    - Displays CAD/CAM images in a **chronological tiled view.**

7. **Overview**:
    - A consolidated snapshot of all modalities for the selected patient.

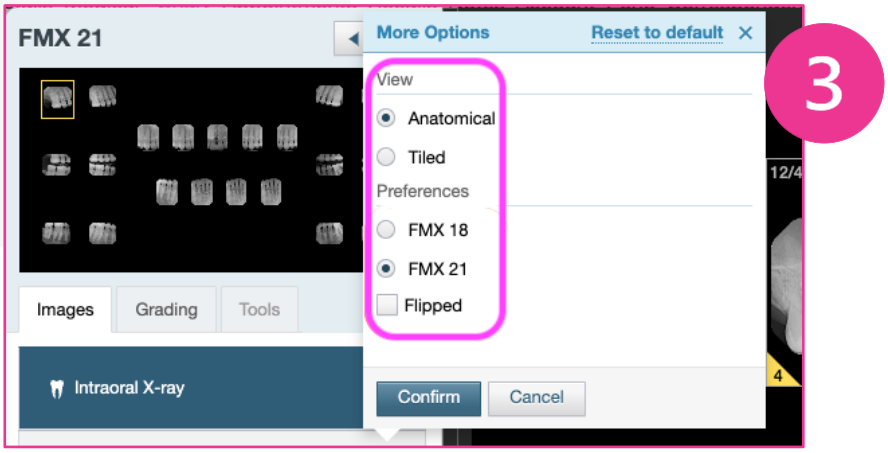
How to edit my Modality view preferences?

Once in Modality view you can use the three dot '**Preferences**' icon next to either '**intraoral x-ray**' or '**intraoral color**' on the left menu to change up your preference and layout settings.

- Click into the '**Preferences**' icon next to either **intraoral x-ray** or **intraoral color.** Use image two and three for reference.



- Set your '**View**' to either Anatomical or Tiled.
- Set your Preferences to FMX 18 or FMX 21
- Tick wether or not you want to flip the view.
- Click '**Confirm**'



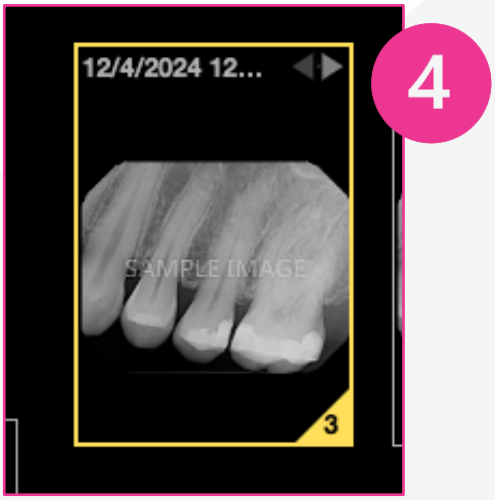
Anatomical example

Tiled example

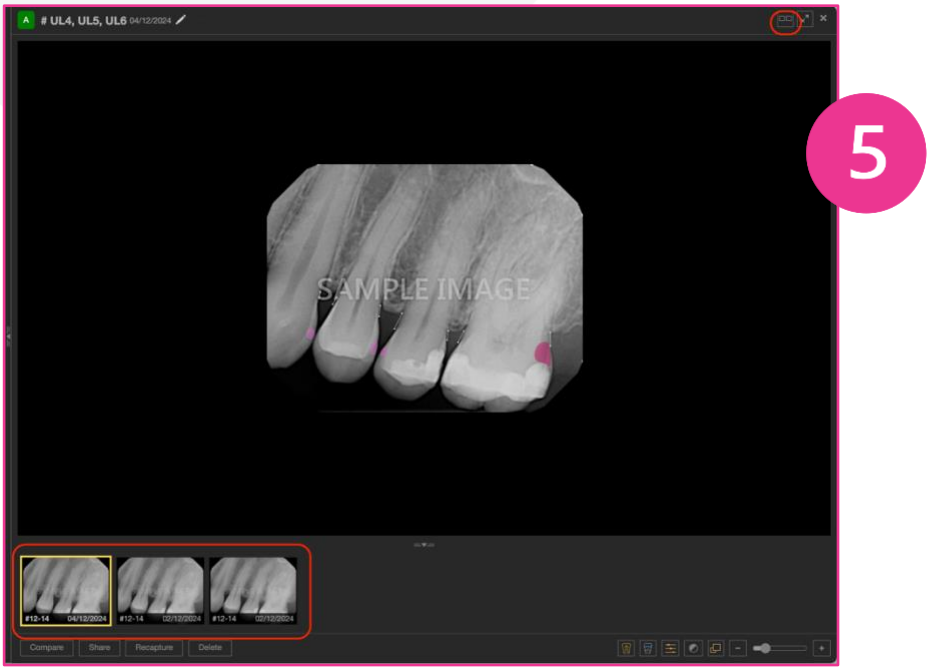
Navigating Modality View

If the currently selected image in a specific position has a yellow box around it, this is indicating the number of associated images for that position. To view those alternative images:

- Click an image with the yellow box to view a film strip of all available images. Use image four as a reference.
- Selecting an image will open it in the viewer. Use image five as a reference.



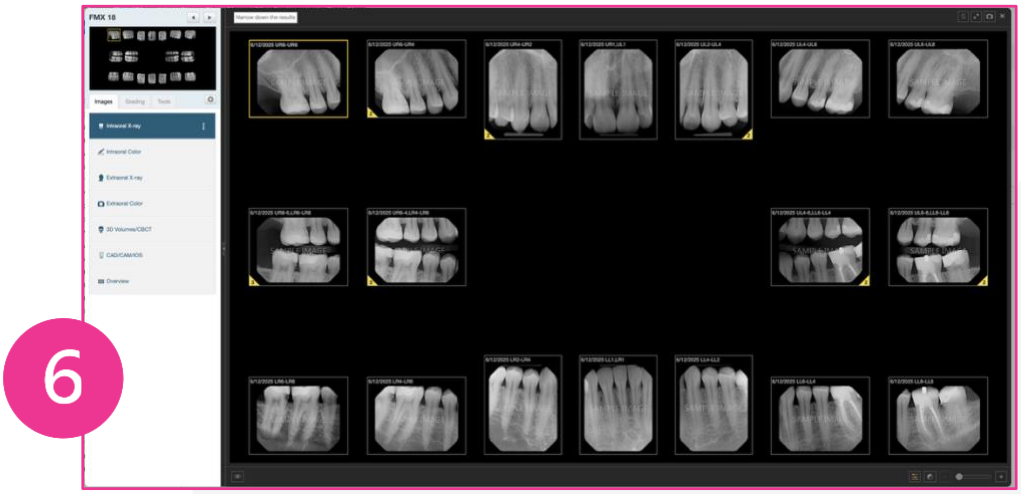
- Click the **two block button** in the top-right corner to return to the Anatomical or Tiled view. Use image five as a reference.



Using the 'Light Box' function

The eye icon in the lower left of Dentally Visions Modality view allows you to swap to light box mode which offers a simplified viewing experience by hiding extra information for multi-image sets. Use image six as reference.

Simply toggle this mode on/off by clicking on the eye icon in the very bottom left of your Modality view.



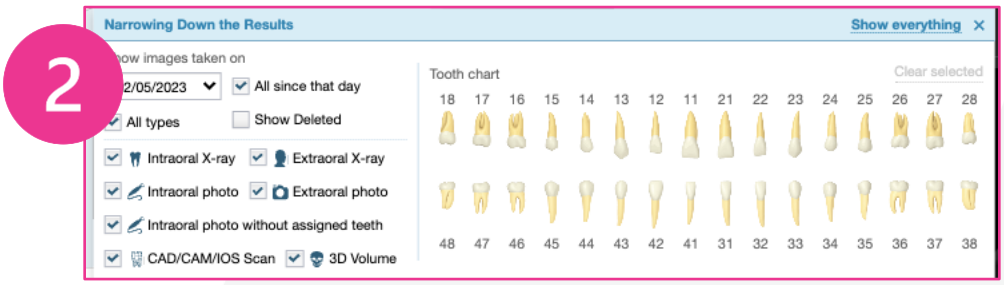
Viewing image history

You can view a patient's entire image history chronologically and quickly navigate between each image.

In the history view, you can view individual images larger than you can in the recent images view, and you can process (for example, enhance or annotate) an image. (shown in image

one)

- Ensure the correct patient is selected.
- In the Patient Chart, click **Cloud Gallery**, then, click on an image. Click the **Images** tab on the left to show the Image History.
- To filter the list of images on the **Images** tab to display only the images that match the filter criteria that you specify, click in the **Narrow down the results** field to view the available filters. (as seen in image two)



- Set up any of the filters as needed. All described below.

- To clear all tooth selections, click the **Clear selected** link.

Date

- To view the images from 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, select the **All types** check box.
- To view images in only certain categories, make sure the check boxes of only those categories are selected.

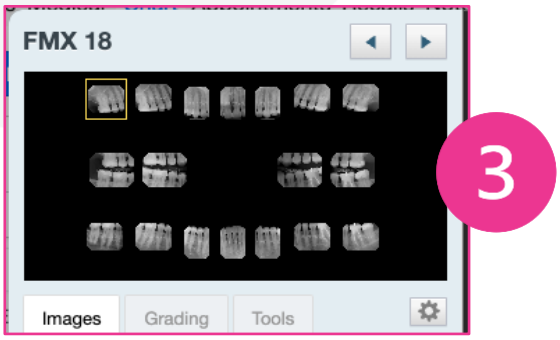
Teeth

- 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**.
- **Note:** 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).

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. Additionally, if you select a series of images, the first image of that series that matches the criteria is selected and shown in the viewing area
- Click the **X** in the upper-right corner of or anywhere outside of the **Narrowing Down the Results** menu to close the menu.
- **Navigate the series** - (For a series only)

- 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. (as seen in image three)

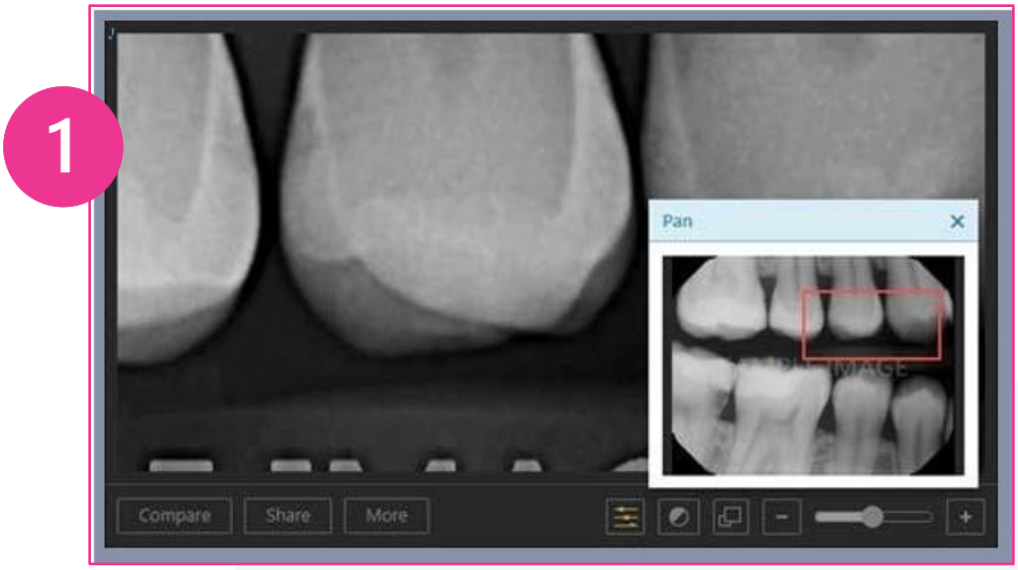


Note: You can also click the **Previous** and **Next** buttons to navigate between the images in the set.

Zoom in/out - (For an image, series, or CAD/CAM scan only)

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 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. As seen in image one.



Additionally, the **Pan** dialog box automatically hides two seconds after you move your pointer away from the dialog box or click elsewhere, and it reappears if you position your pointer or click in the lower-right corner of the viewing area where the dialog box had appeared previously.

Quickly resize a series.

By default, Dentally Vision 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.

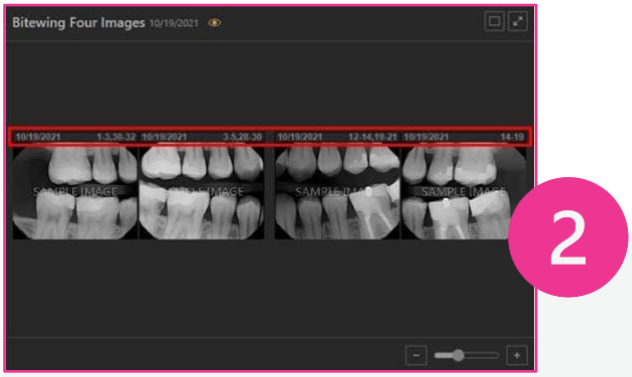
Note: The state of the **Smaller/Larger** button also affects the preview size of images during some acquisitions and the size of images in the **Image Peek** dialog box. The state of the button is stored per computer (or device).

To view the image full screen, click the **Full Screen** button . To return to the normal view mode, click **Esc** key or click the **Normal Mode** button .

View a series of images.

To view all the images in the series at once in the viewing area, click the **Series Mode** button in the top right.

By default, the acquisition date and corresponding tooth numbers for each image appear. To hide those details temporarily, click the **Show/Hide image information** button which is orange to indicate that the details are being displayed, or grey if they are not displayed. All show in image two below.

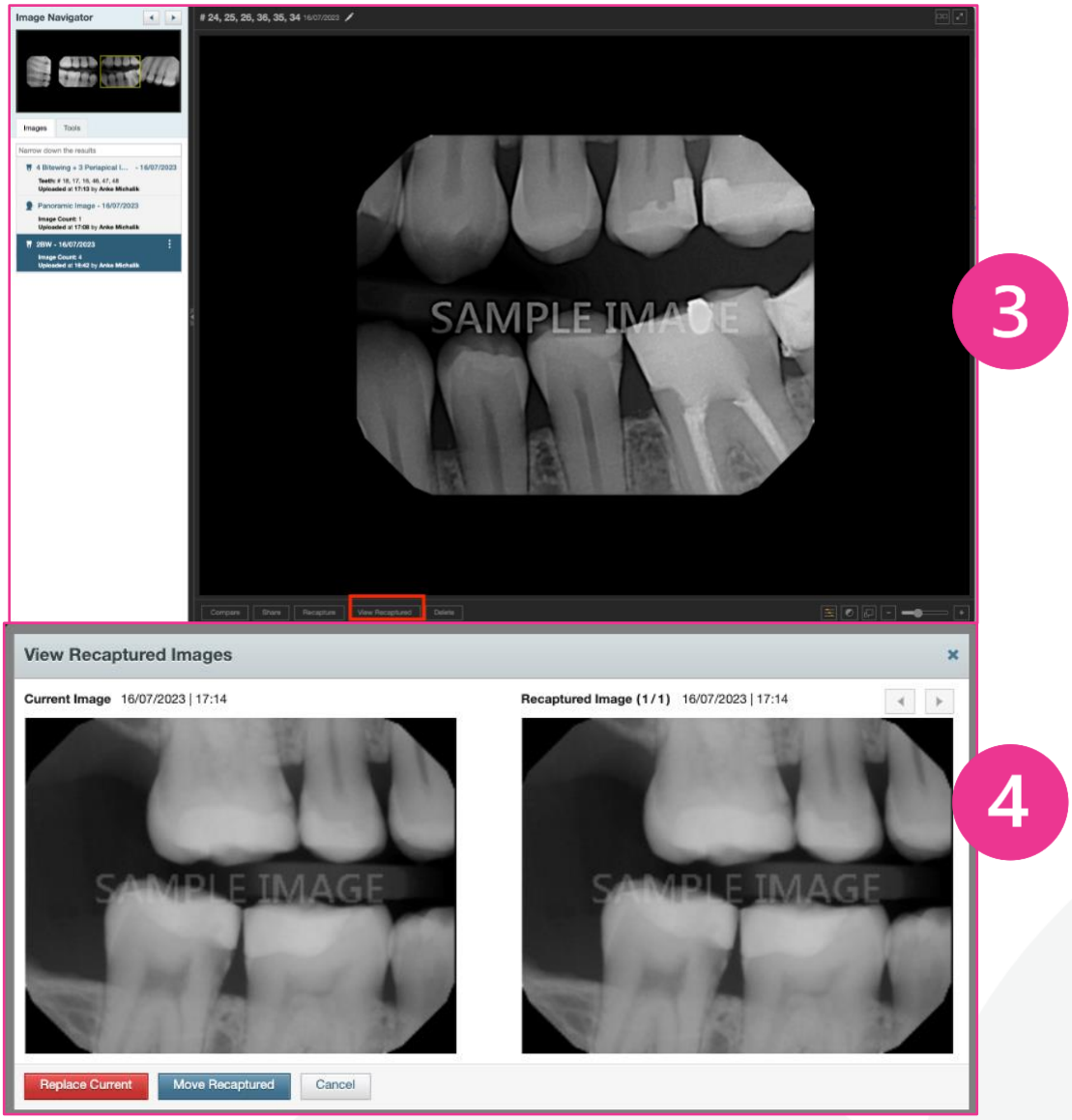


To return to the single image view mode, click an image in that viewing area to view only that image or click the **Single Mode**  on

Viewing Recaptured Images (For an X-ray image or series only)

If the image being displayed has been recaptured, **View Recaptured,** will display as a button.

Click on '**View Recaptured'** to display both the current and recaptured image**,** as highlighted at the bottom of image three.



Note: Dentally Vision always stores all original and recaptured images.

- To navigate between each version, next to **Recaptured Image**, click the **Previous** and **Next** buttons

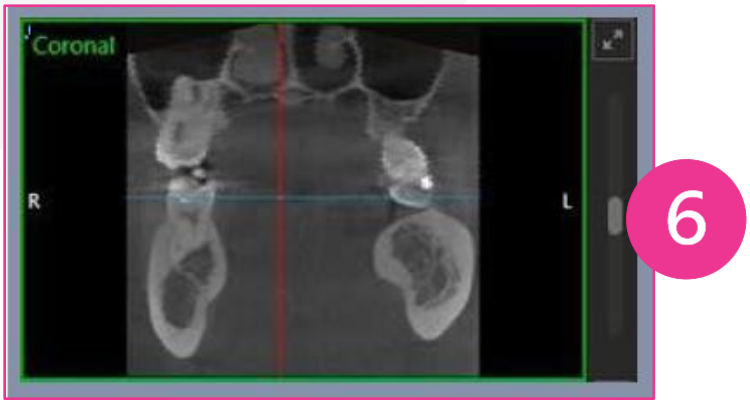
- To use the **Recaptured Image** instead of the **Current Image** as the active (visible) image when the exam is being viewed, click **Replace Current**. (as seen in image four)
- To move the image under **Recaptured Image** to a different slot in the exam, do the following:
- Click **Move Recaptured** and the **Move Recaptured Image** displays. (as seen in image four)
- Drag the thumbnail to a different slot.
- Click **Confirm.** The image has been moved, as indicated by the green check mark. (as seen in image five)

Note: For phosphor plates, the recaptured image becomes part of the stack, so the above is **not applicable.**

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 that the view is normal). As seen in the top right of image six.

To return to the normal view mode, click the **Toggle Displaying Full Panel** button (inward-pointing arrows on the button indicate that the view is



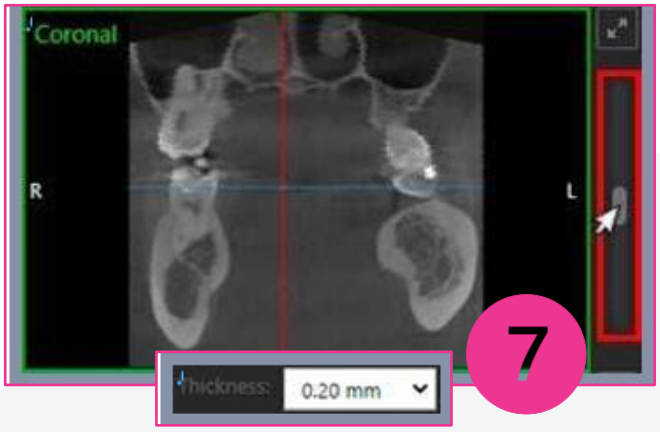
Rotate anatomy - (For a 3D volume only)

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 that you specify. The axis can be rotated from -45 to +45 degrees about the slice centre point.

Note: If the 3D volume has any annotations or measurements, the **Change Image Rotation** message appears, explaining that the annotations and measurements will be cleared if you rotate the volume. To allow the anatomy to rotate, click **Clear Annotations/Measurements**; otherwise, click **Cancel**.

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 a view to move the slice plane indicators to that spot. As shown in image



seven.

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**, **0.40 mm**, **0.60 mm**, **0.80 mm**, or **1.00 mm**. as show in image seven above.

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 .

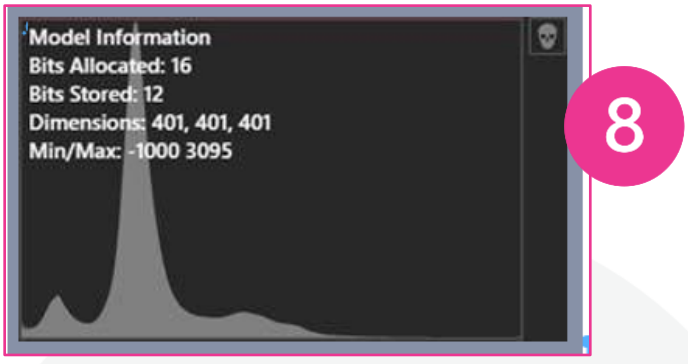
To hide/show the slice plane indicators - (For a 3D volume only)

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 that they are visible).

To return to viewing the slice plane indicators, click the **Show/hide slice plane indicators** button again (only grey on the button indicates that they are hidden).

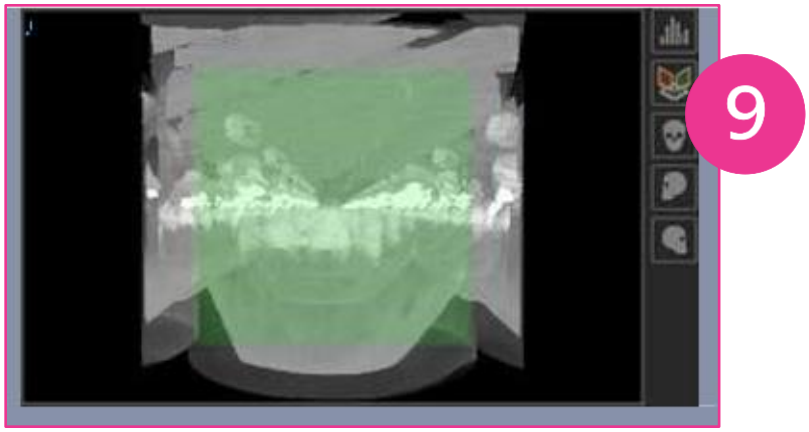
To view the histogram or a rendered 3D image - (For a 3D volume only)

By default, a histogram appears in the lower-right box. To view a rendered 3D image of the volume (all slices of the volume are combined), click the **Swap for Volume Render Panel** button As seen in the top right of image eight.



While viewing the rendered 3D image, do the following as needed: (all icons can be seen in image nine at the bottom)

- To hide the volume plane indicators, click the **Show/hide volume plane indicators** button (yellow on the button indicates that 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 that 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 it from the right side, click the **Snap to right view** button
- To rotate the image to view it from the front, click the **Snap to front view** button When the image is rendered initially, the front view is displayed by default.
- To return to viewing the histogram, click the **Swap for Histogram Panel** button



Note: To 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, resize the browser window to make the view smaller, and then perform a hard refresh of the page (the clear cache and hard reload option in a Chrome browser); otherwise, 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 can be attached to an insurance claim, click **Snapshot**.

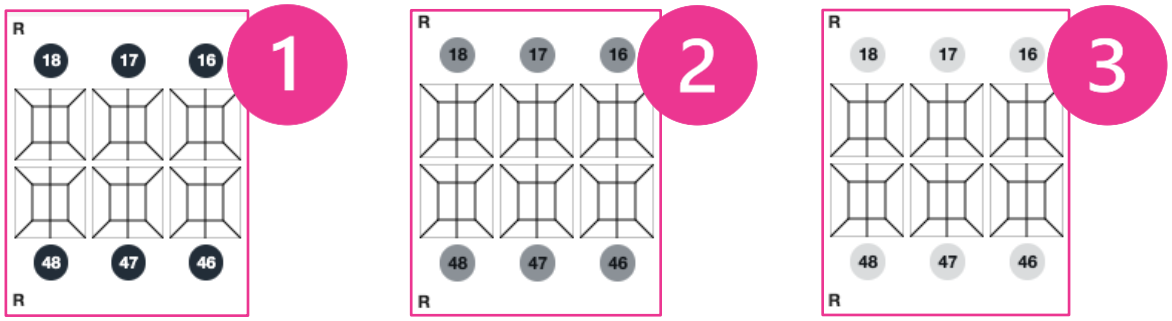
Viewing images for selected teeth

Firstly, we need to determine which teeth have images associated to them. We can do this by…

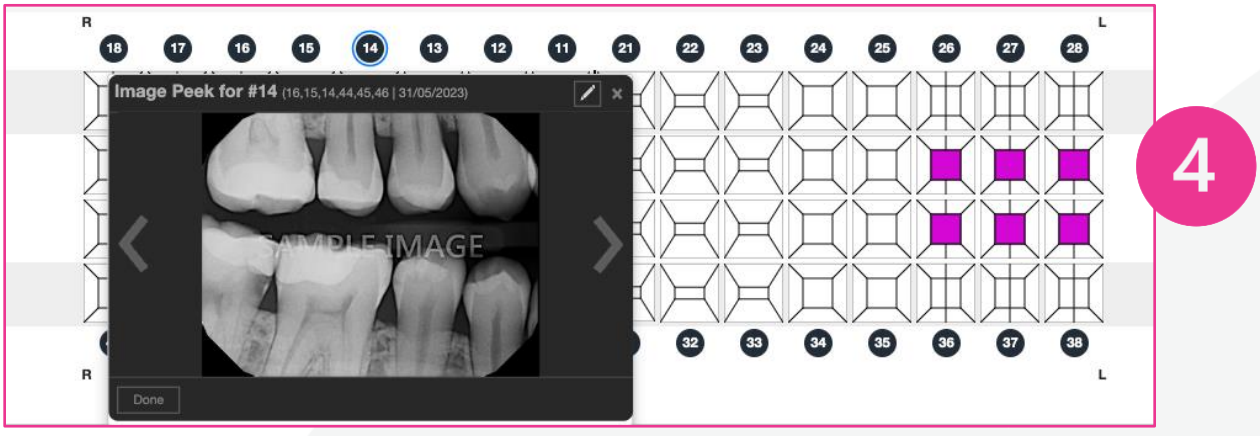
- Go to the patient's Chart**.**
- You can tell if a tooth has an image associated with it, and the age of that image, by the colour of the circle around that tooth number as indicated in images one, two and three below:

  Black is 0 - 6 months,

  Dark grey is 7 - 12 months
  Light grey is 13 - 24 month
  White (no circle)- 25 or more months (or no image).



- Selecting the tooth number will display the latest image peek for that tooth, as show in image four below.



- Scrolling through the images by selecting the left and right arrows will display all the images taken for that tooth in chronological order. As highlighted in image five.

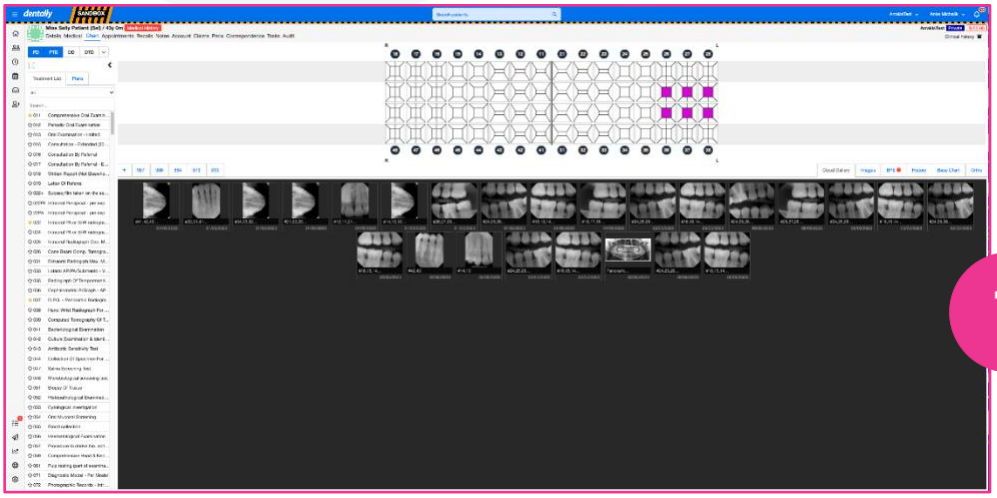
- Selecting the Open for Editing button in the top right of any image will open the image for editing, as seen in image six.

Note: For phosphor plates all images in the stack are scrollable in image peak

Comparing images

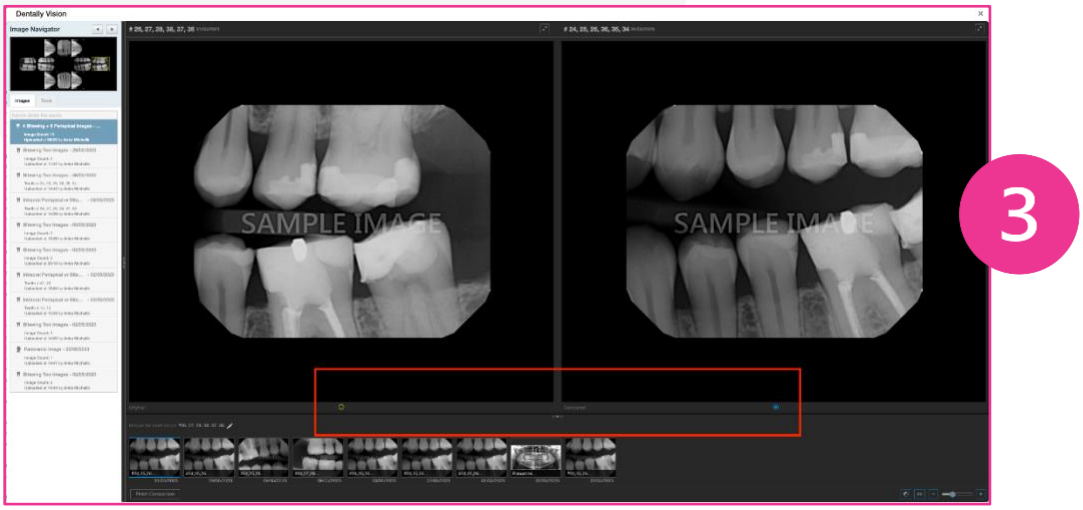
Follow the below instructions to compare images side by side in dentally vision.

- In the Patient Chart, click **Cloud Gallery**, then click on an image to open dentally vision. (image one)



- On the Image Navigator, select **Compare** on the bottom left. Highlighted in the bottom on image two.

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



- The original image is displayed on the left with a yellow circle, the image its being compared to will have a blue circle. As highlighted in image three.

- **By default, the filter is set to show only images that match the source image's modality and tooth selection.** To change this, click the **pen icon** to edit filters — you can adjust the modality, assigned teeth, or select **"Show everything"** to see all images regardless of match.

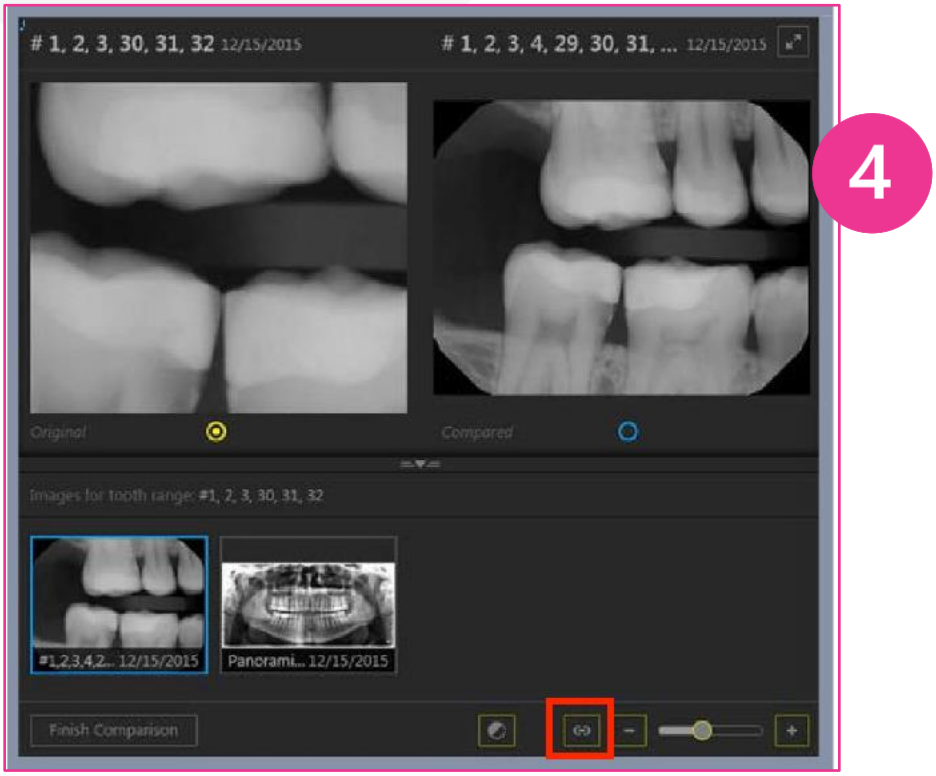
- The image list displays the images that match your filter criteria. Additionally, if you select a series of images, the first image of that series that matches the criteria is selected and shown in the viewing area.

- 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.

- 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.
    - 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.

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.

- Click the **Original** or **Compared** image.



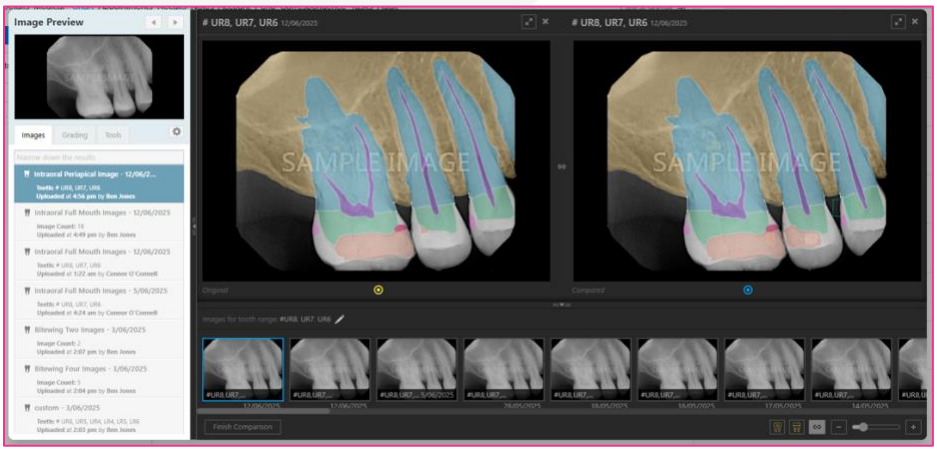
- Click the link button
- The images are now linked.
- To unlink images, click the **Link** button again (as highlighted in image four)

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.

- Click **Finish Comparison**

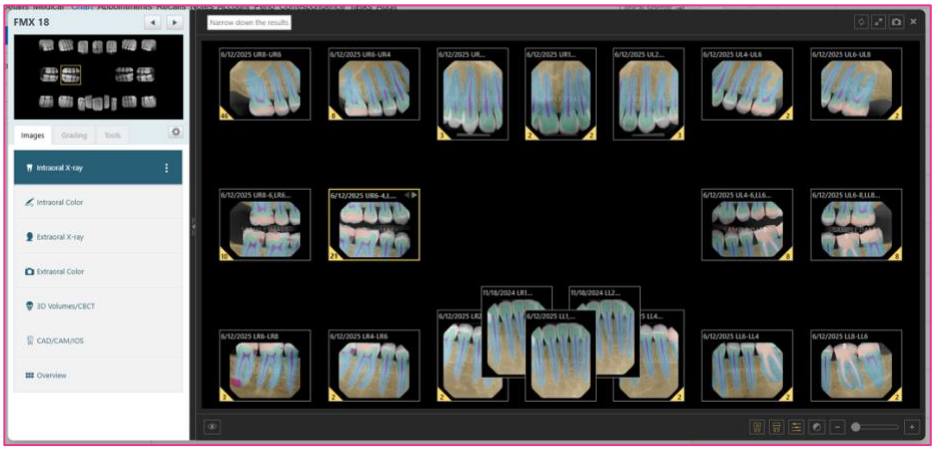
View AI results in compare mode

If you are using Dentally Vision AI you can also toggle your AI findings on and off in compare mode for even better visualisation when investigating and observing your images.



View AI results in Modality view

If you are using Dentally Vision AI you can also view your AI results if they exist when in Modality view by using the existing tooth shaped AI icon in footer to toggle AI detections and AI tooth parts on/off.



Using the detection confidence slider

The **detection confidence slider** lets you control which AI findings from Dentally Vision AI you see by choosing a confidence level: **Low**, **Medium**, or **High**.

This tool helps you focus on the findings that matter most for your workflow. Your selected confidence level is applied in real time and is saved for future exams.

What is detection confidence?

Each AI finding is tagged with a **confidence level** — this shows how certain the AI is that a condition (like decay or bone loss) is present in the image.

Here's what each level means:

▨ Low confidence

- The AI noticed something **subtle or unclear**.
- These findings **might** indicate a condition, but the signs are not strong.
- Good for: **early screening**, second opinions, or prompting a closer clinical review.

▨ Medium confidence

- The AI is **moderately confident** the condition is present.
- Often reflects real issues, but **clinical confirmation is still important**.
- Good for: balancing **thoroughness with efficiency**.

▨ High confidence

- The AI is **very certain** about the finding.
- Backed by strong visual and statistical indicators.
- Good for: **quick identification** of clear, clinically-aligned issues.

💡 **Top Tip:** You can adjust the slider anytime during an exam. Your settings will be remembered automatically.

Filtering images

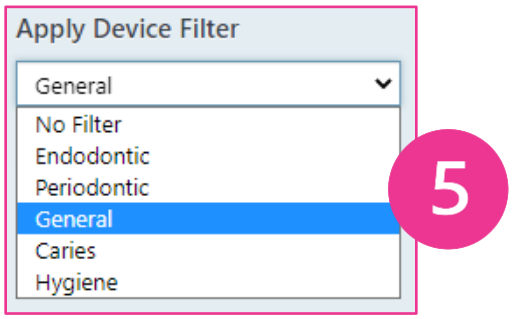
You can perform various processing tasks, such as enhancing and annotating on images. You can do this during the x-ray process stage or later in the Image history section, we'll cover both stages in this section.

Note: Any processing that you perform on an image is permanent (except for colourise, grayscale, 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.

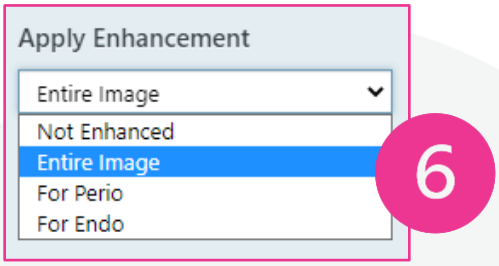
Note: Filters are not applied by default for Vistascan, TWAIN and PSPIX devices

To filter an image whilst processing

- If applicable for the selected acquisition device, the **Apply Device Filter** list is available. (image five) From the list, select the filter that you want to have applied automatically to the image that will be acquired (**Endodontic**, **Periodontic**, **General**, **Caries**, or **Hygiene**), or select **No Filter** to not apply any filter.



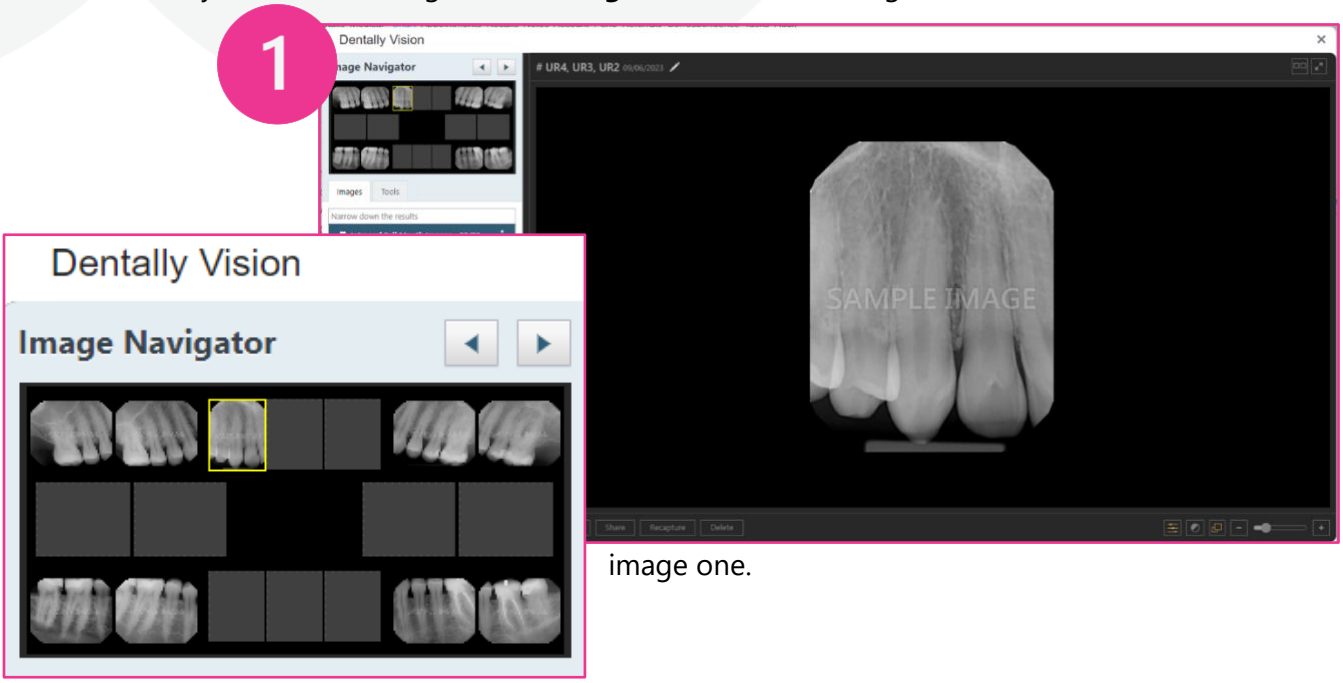
- From the **Automatically Apply Enhancement** list, (image six) select the type of enhancement that you want to have applied automatically to the image that will be acquired (**Entire Image**, **For Perio**, **For Endo**), or select **Not Enhanced** to not apply any enhancement.



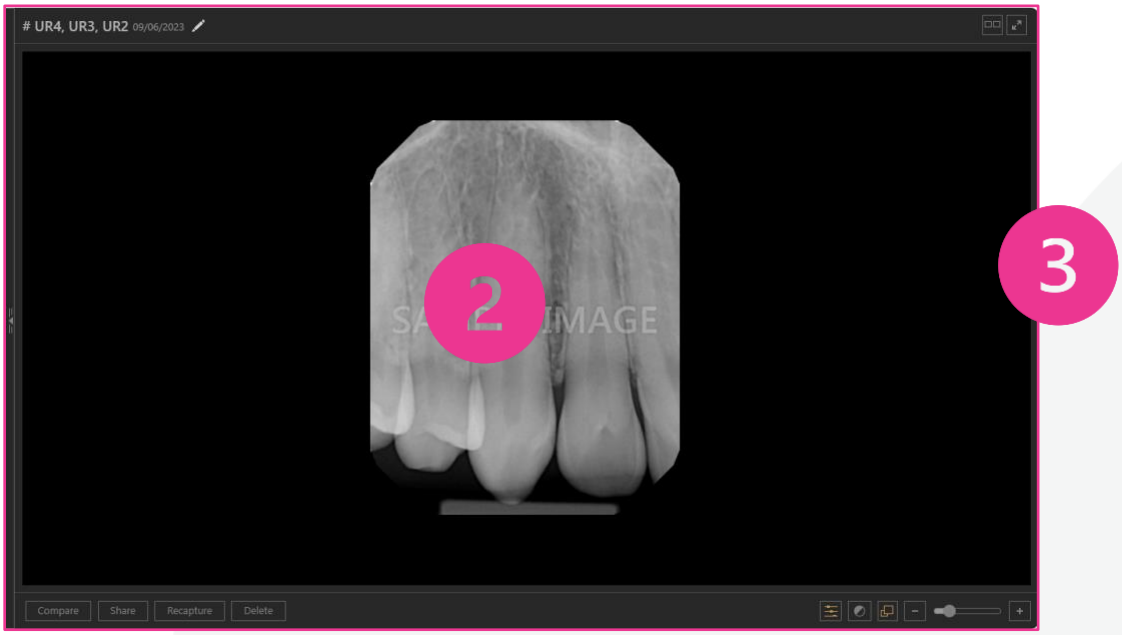
Note: While viewing an image after it has been acquired, you can turn the enhancement off and on. The original, raw image is preserved.

To filter an image from history

From Dentally Vision, go to the **Images** tab, select an image from an exam. As seen in image one.



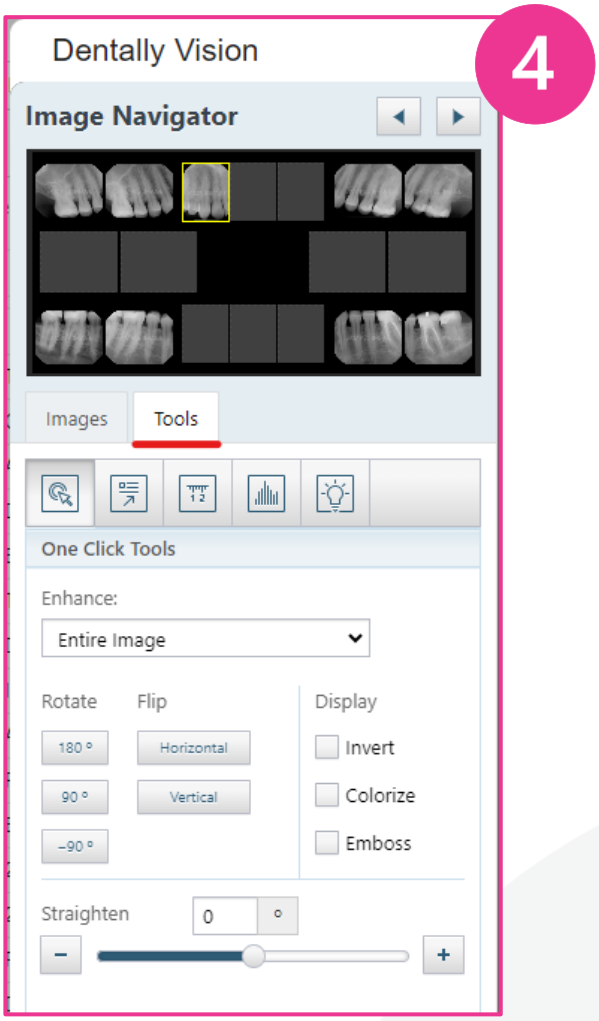
If you have selected a series, under **Image Navigator** as highlighted in image two, click an image of that series. The selected image appears in the viewing area.



Adjusting images using Tools in Dentally Vision.

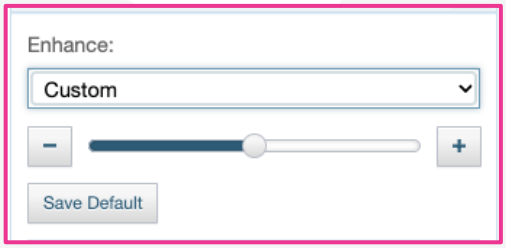
Click on the **Tools** tab once loaded into dentally vision. Use the following tools as needed: (all highlighted in image four)

Note: The **Tools** tab is not available if you are viewing a CAD/CAM scan.



- **View Mode** - (For a 3D volume only) The **MPR Orthogonal** option is selected. Currently, no other options are available.

- **Enhance** - (For an X-ray only) 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 grey level adjustment to accentuate the subtle differences in the grayscale values of periodontal conditions.
    - **For Endo** - Adds a higher level of sharpening and contrast and a grey 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.
    - **Custom** - Adds an adjustable sharpness enhancement to the image. Click and drag the slider or use the positive and negative buttons to adjust the sharpness settings. Clicking '**save default'** will save the current sharpness setting for later use.



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 grey  . If the enhancement is turned off, the button is orange  .

- **Rotate** - (For an X-ray or photo only) Click the button that corresponds to how you want to rotate the image: **180** degrees (clockwise), **90** degrees (clockwise), or **-90** degrees (counter clockwise).

- **Flip** - (For an X-ray or photo only) Click the button that corresponds to how you want to flip the image: **Horizontal** or **Vertical**.

- **Invert** - (For an X-ray or photo only) To invert the image's colours, select the **Invert** check box. To remove the filter, clear the check box.

- **Colorize** - (For an X-ray only) To convert the image from grayscale to colour, 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** - (For a photo only) To convert the image from colour to grayscale, select the **Grayscale** check box. To remove the filter, clear the check box. This option is available only for intraoral and extraoral photos

- **Emboss** - (For an X-ray or photo only) To emboss the image, select the **Emboss** check box. To remove the filter, clear the check box.

- **Straighten** - (For an X-ray or photo only) If the image is not straight, to rotate it, do one of the following:
    - To rotate the image counter-clockwise, enter a negative value as a whole number or a decimal (such as"-0.3") in the **o (degree)** box, click the **- (minus)** button as needed (the angle is reduced by 0.1 degree with each click), or drag the slider to the left.
    - To rotate the image clockwise, enter a positive value as a whole number or a decimal (such as "0.3") in the **o (degree)** box, click the **+ (plus)** button as needed (the angle is increased by 0.1 degree with each click), or drag the slider to the left.

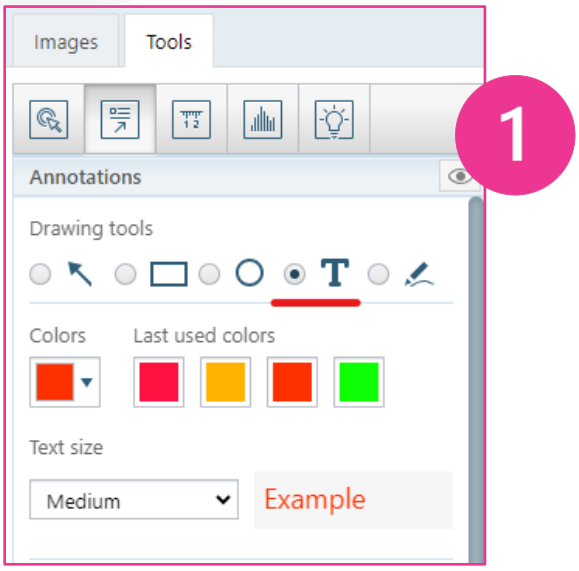
- **Drawing tools –** To add shapes (arrow, rectangle, circle), text, freehand drawing options. Further descriptions can be found below.

To add a shape

- Select a shape option: arrow, rectangle, or circle.
- Select a colour from the **Colours** menu or click one of the **Last used colours**.
- 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.
- Click and drag over a specific area of the image to create the shape. Options and examples shown below.

To add text

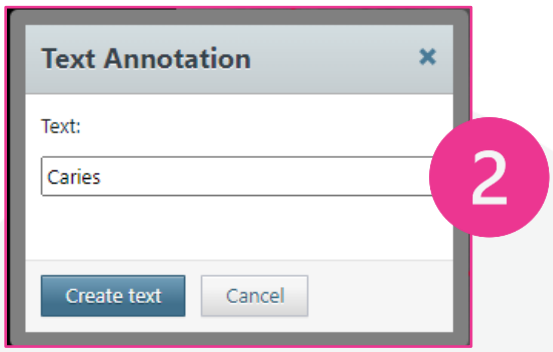
- Select a colour from the **Colours** menu or click one of the **Last used colours**, as seen in image one.



- 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.

- 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, as seen in image two.



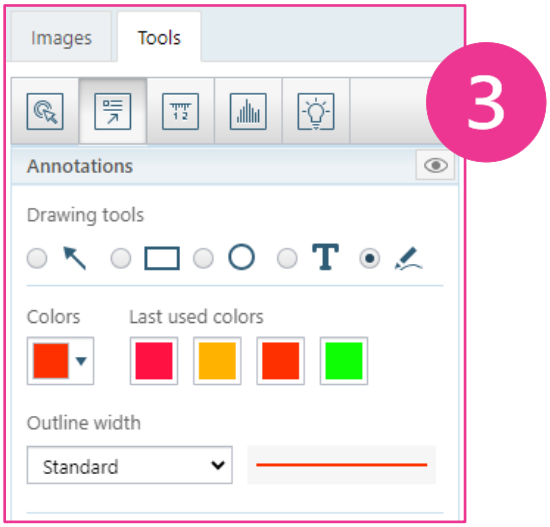
- Type the text to label the highlighted area then Click **Create text**.

To add a freehand drawing

- Select a colour from the **Colours** menu or click one of the **Last used colours**.

- 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.

- Click and drag over a specific area of the image to draw. When you release the mouse button, the drawing operation stops, all seen in image three below.



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 the annotations, select and clear the **Show** check box.

For an X-ray, photo, or 3D volume only: 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.

For a 3D volume only: to view an annotation on a slice that is not currently being displayed, click that annotation in the **Annotation list**.

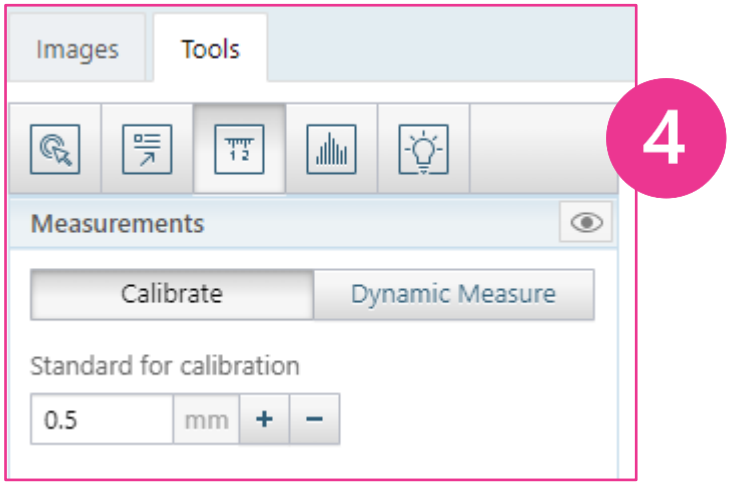
Measurements

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 as to whether the overall accuracy achieved is correct for the desired measurement.

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

To add measurements:

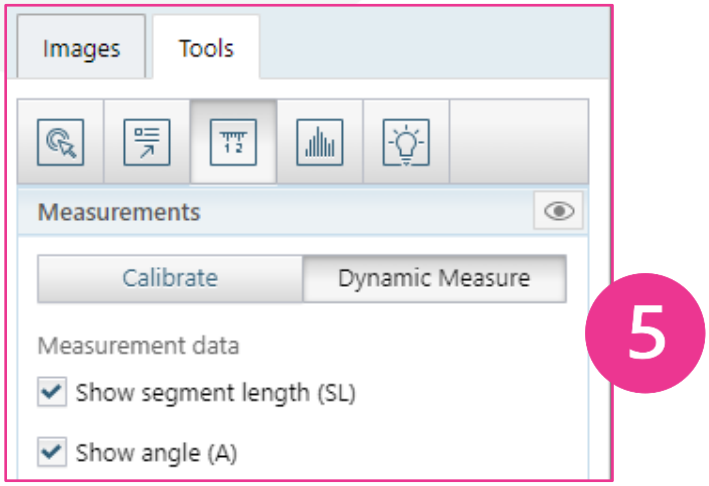
- For an X-ray or photo only: To calibrate distance measurements using an object of known size in the image, click **Calibrate**.
- Click the first (starting) point of the known-length object on the image where you want to start measuring, and then drag to another point on the known-length object.
- Change the length of the **Standard for calibration** as needed to the correct number of millimetres for the known length. As seen in image four below.



- 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 Dentally Vision, it may not be necessary to calibrate images taken with those sensors.



For an X-ray or photo only: Click **Dynamic Measure**. (as seen in image five)

To create other lines:

- For an X-ray or photo only: Click a point on the image, and then click another point to create a line. Repeat this process as needed to create other lines.
- For a 3D volume only: Click a point on the image, and then drag to another point to create a line. Repeat this process as needed to create other 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 the **Show segment length (SL)** check box.

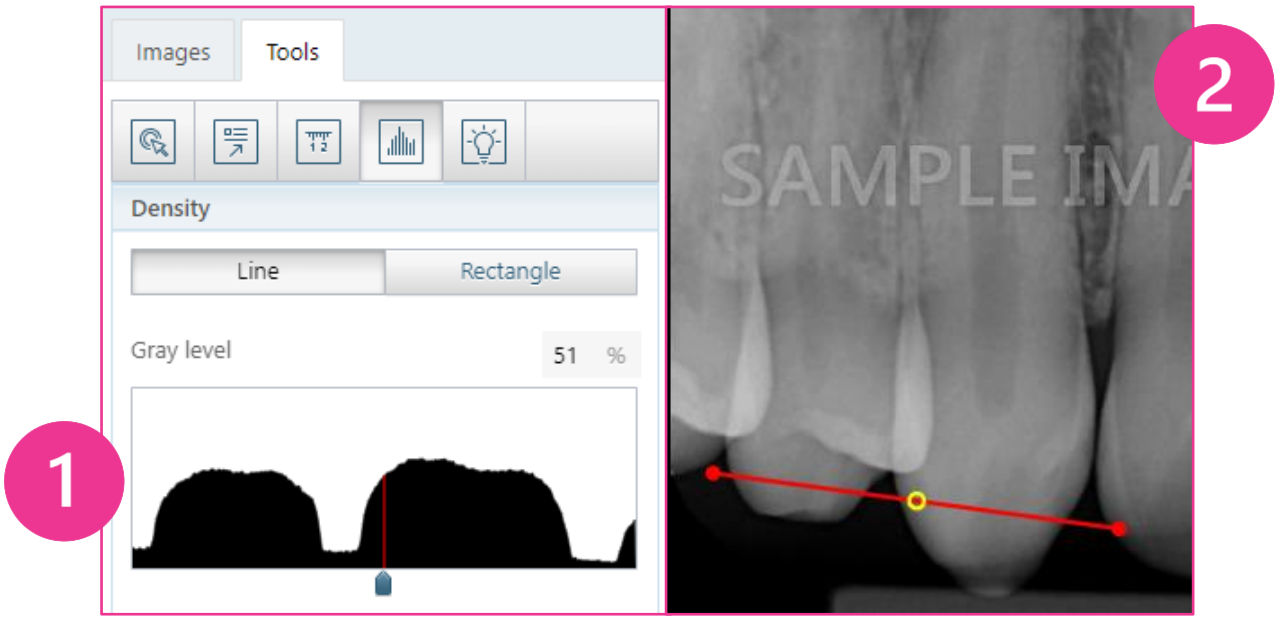
To show the calculated angle where two line segments meet, select the **Show angle (A)** check box.

To switch between showing and hiding the lines and their calculated lengths and angles, select and clear the **Show** check box.

- For an X-ray, photo, or 3D volume only: When you initially access the Measurements tool, any annotations hide automatically. 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.

- For a 3D volume only: To view a measurement on a slice that is not currently being displayed, click that measurement in the **Measurement list**.

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.

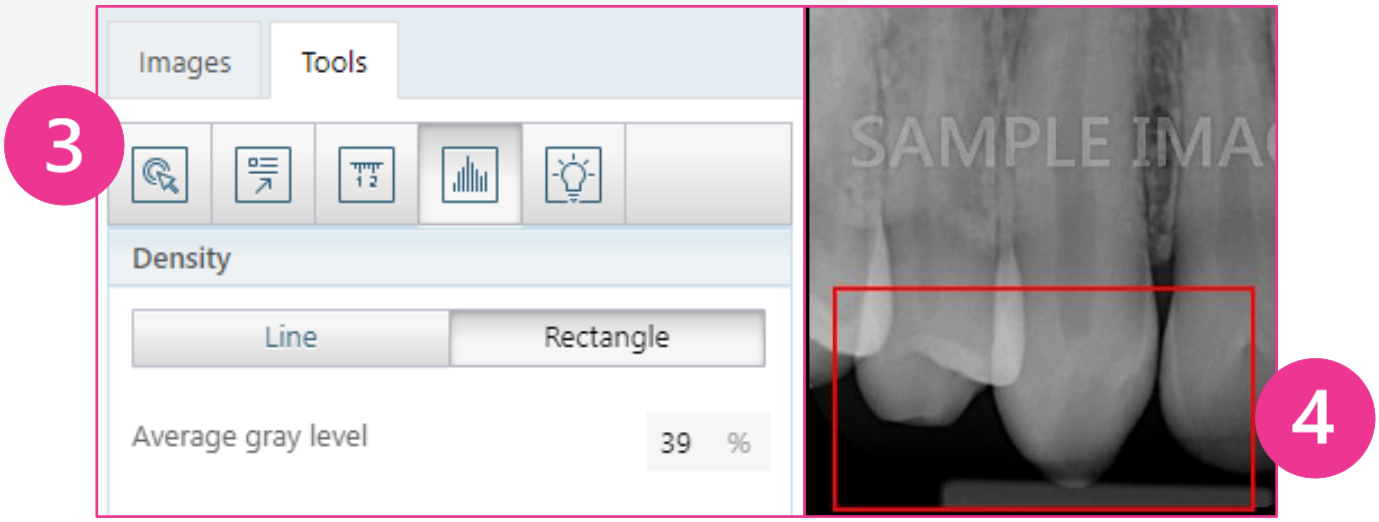
(For an X-ray only) To get the density (grey level) from one point to another on the image, do the following:

- Click **Line**.
- Click a point on the image, then drag the mouse to another point to create a line. (image two)

- A graph of the grey levels along the specified line appears, and the average **Grey level** is indicated. (image one)

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

Density **Rectangle**



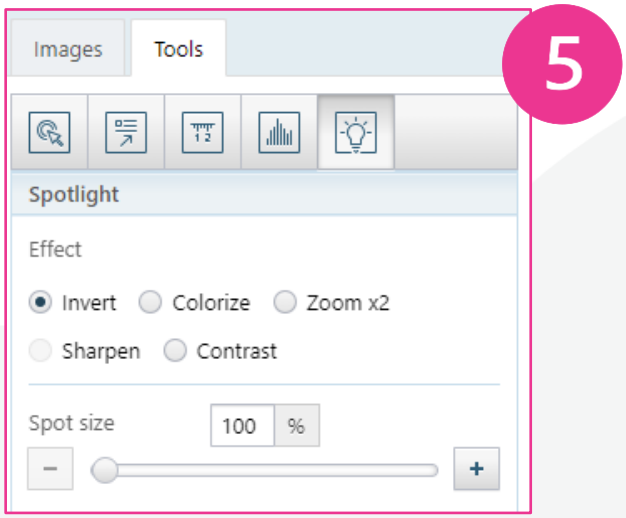
For an X-ray only: To get the density (grey level) of a rectangular area on the image, do the following:

- Click **Rectangle**.
- Click a point on the image, and then drag to another point to create a rectangle. (image four)
- The **Average grey level** is indicated. (image three)

Spotlight

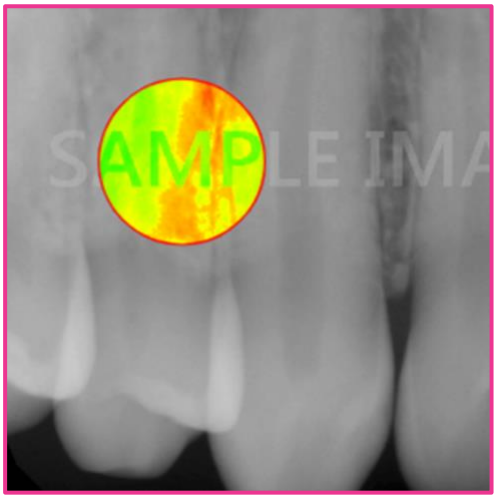
For an X-ray or photo only: To add spotlights:

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



The different effects will show as follows.

Invert



Colourise

Zoom X2

Sharpen

Contrast

Suspended

6

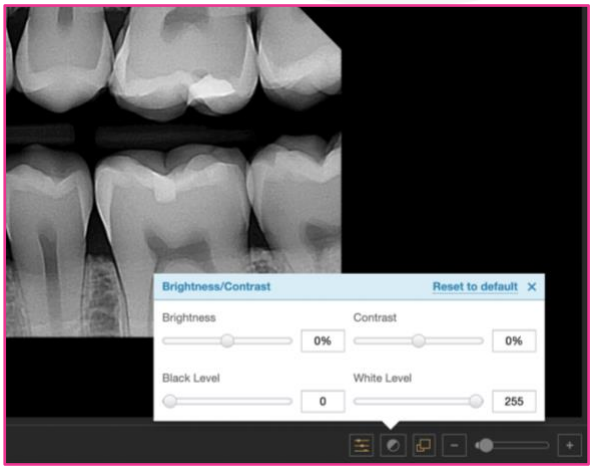
- To move the spotlight, click another area of the image.
- To suspend the spotlight on the image so that you can add other spotlights, click **Suspend**. The border of the spotlight turns blue. (see image six)
- Repeat steps as needed to continue adding spotlights, you can use several different spotlights on the same image.

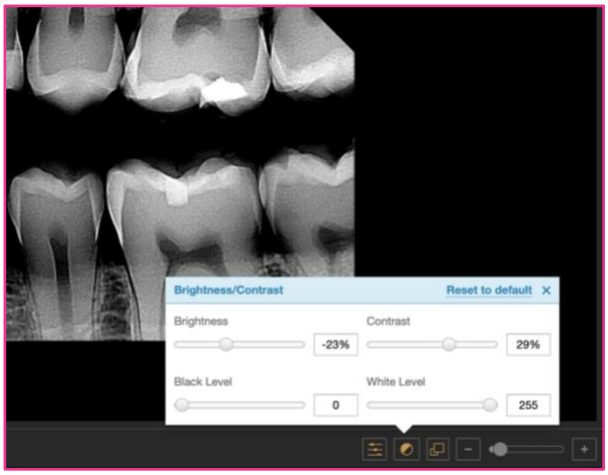
Note: To remove all spotlights, click **Clear Suspended**, or select another processing tool.

Adjusting brightness and/or contrast

With an image selected on the screen, you can click the Brightness/Contrast button, then control both aspects with the respective slider bar. The button will show orange to show changes have been made.

Before changing the image:



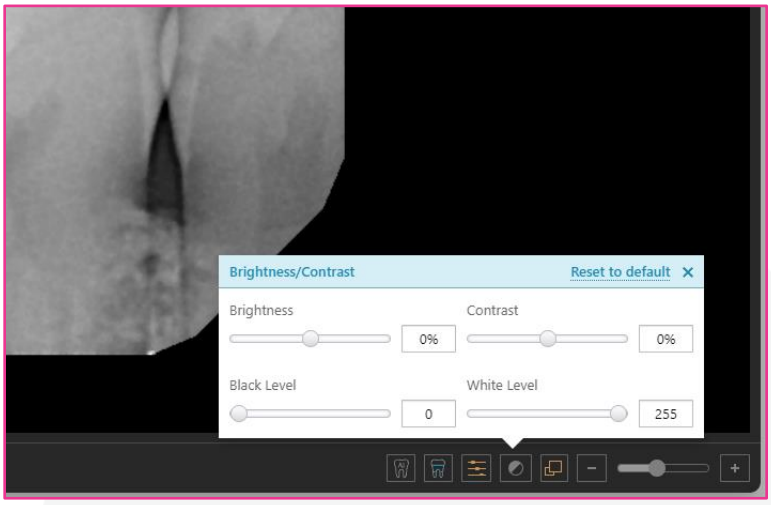


After changing the image:

Adjusting black and white levels

You can manually adjust the black and white pixel levels. This enhances image clarity and contrast by giving you precise control over image exposure. There are two sliders—one for adjusting the maximum black pixel value and another for the minimum white pixel value.

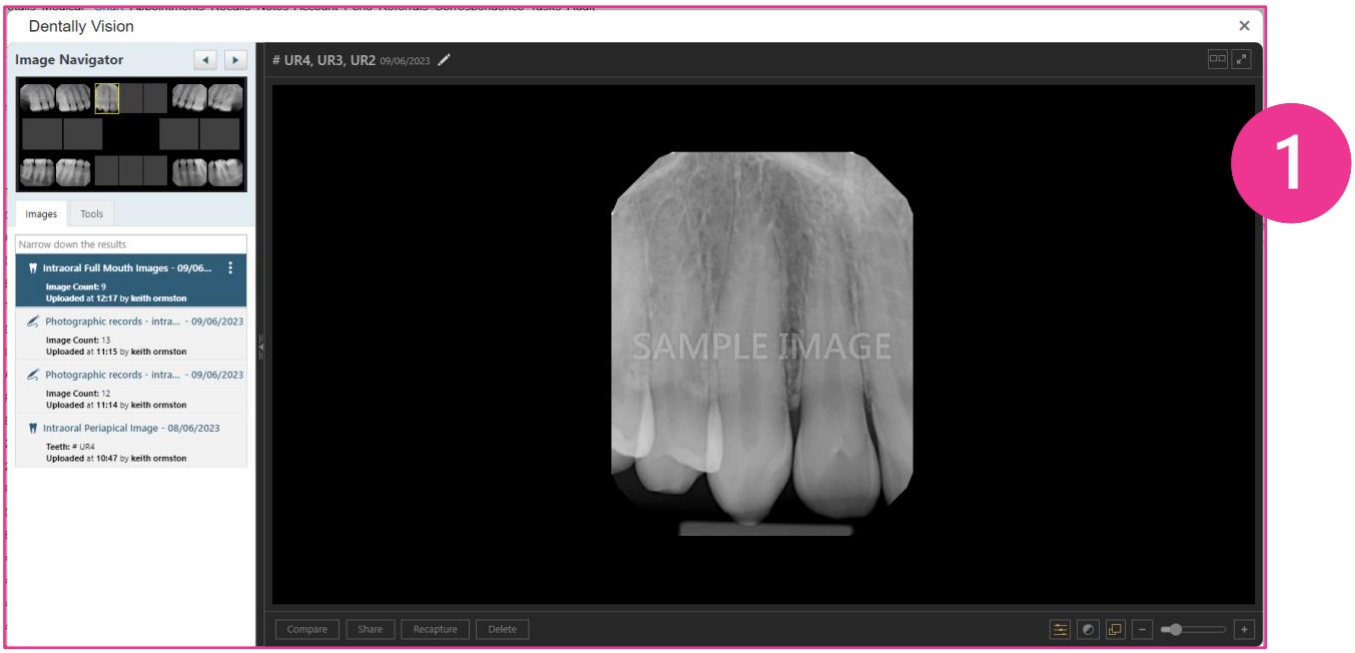
- Black Level Slider: Adjusts the threshold below which all pixel values are set to black (0).
- White Level Slider: Adjusts the threshold above which all pixel values are set to white (255).



Deleting images

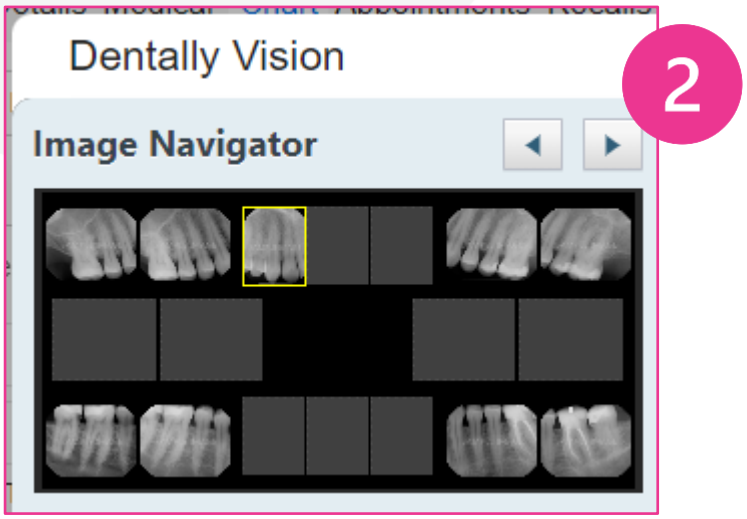
You can delete a single image or a series of images from a patient's record only if the treatment has not been charged.

- Ensure the correct patient is selected.
- In the Patient Chart, click cloud imaging, then click on an image.
- Once in Dentally Vision, Click the image tab on the left to show the **Image History**. (image one)



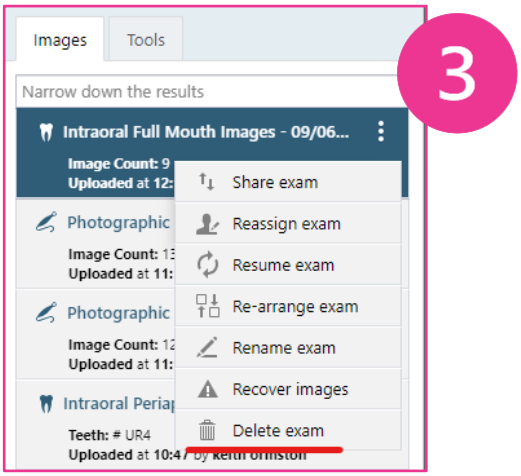
- Select an image or a series (such as a full mouth series or bitewings). (image two)

- Then do one of the following:

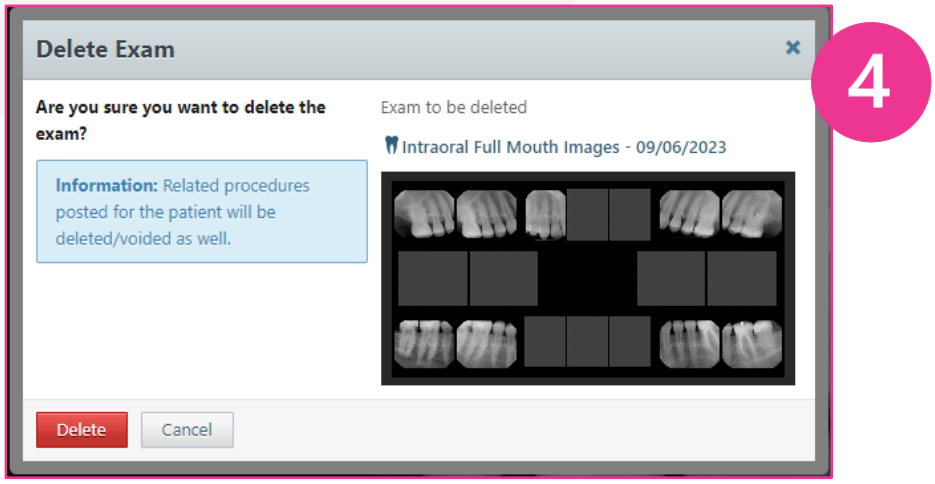


Delete the entire series:

- On the corresponding options menu, click **Delete exam**. (image three)

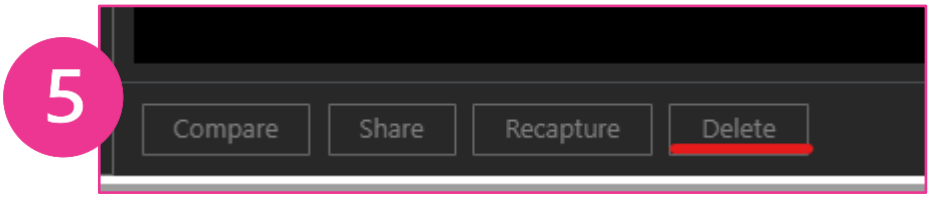


- A confirmation message will appear asking if you want to delete the exam. (image four)
  Note: this will delete all images within the sequence.

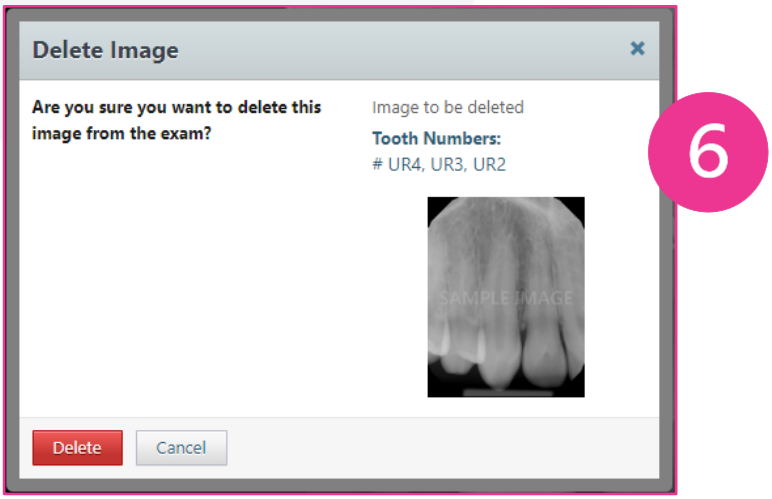


Delete the selected image within the series:

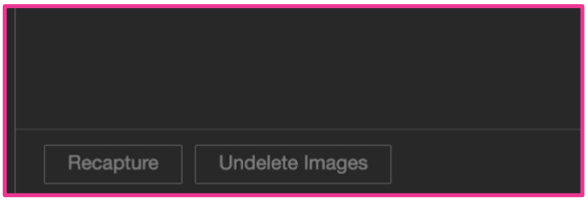
- If you have selected a series, and you want to delete a specific image of that series, under **Image Navigator**, click that image.
- Click the delete button under the image. (image five)



You will receive a confirmation message and preview of the image to be deleted. If you are sure then proceed and click Delete (image six)



Note: For Phosphor plates, the images can be undeleted by clicking the '**Undelete'** button as shown in the image below.



Reassigning images to a different patient

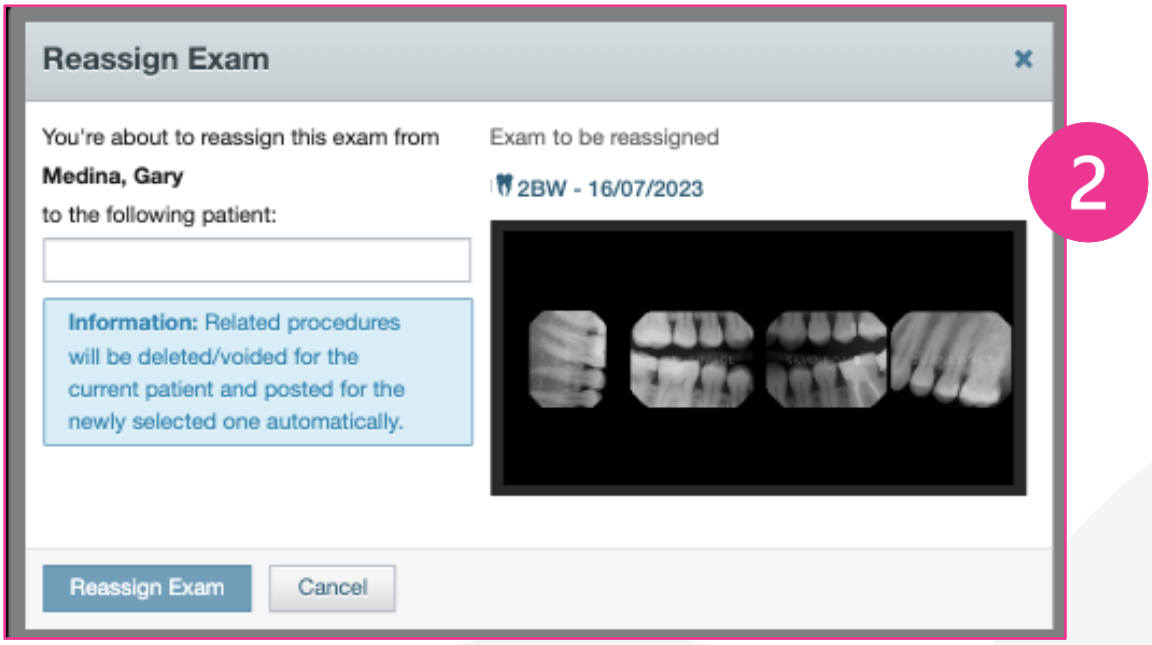
You can move a single image or a series of images from one patient's record to another's.

To reassign an image:

- Ensure the correct patient is selected.
- In the Patient Chart, click on an image.
- Click the image tab on the left to show the **Image History**.
- Select the images you want to reassign.

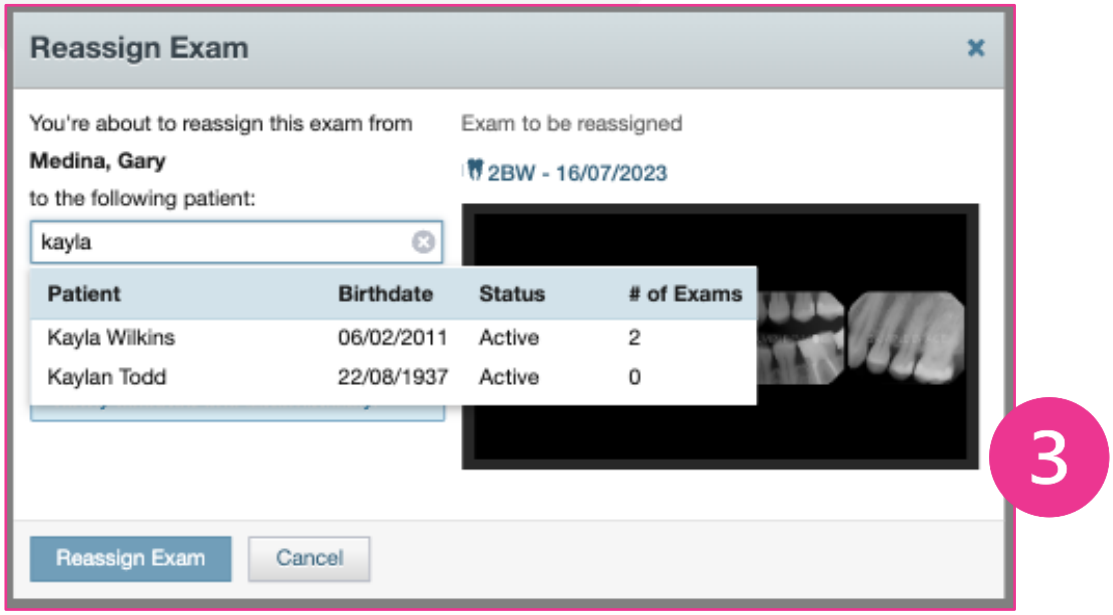
- Click on the dots to the right of the exam and select '**Reassign exam'**. (image one)

- **The Reassign Exam screen appears.** (Image two)

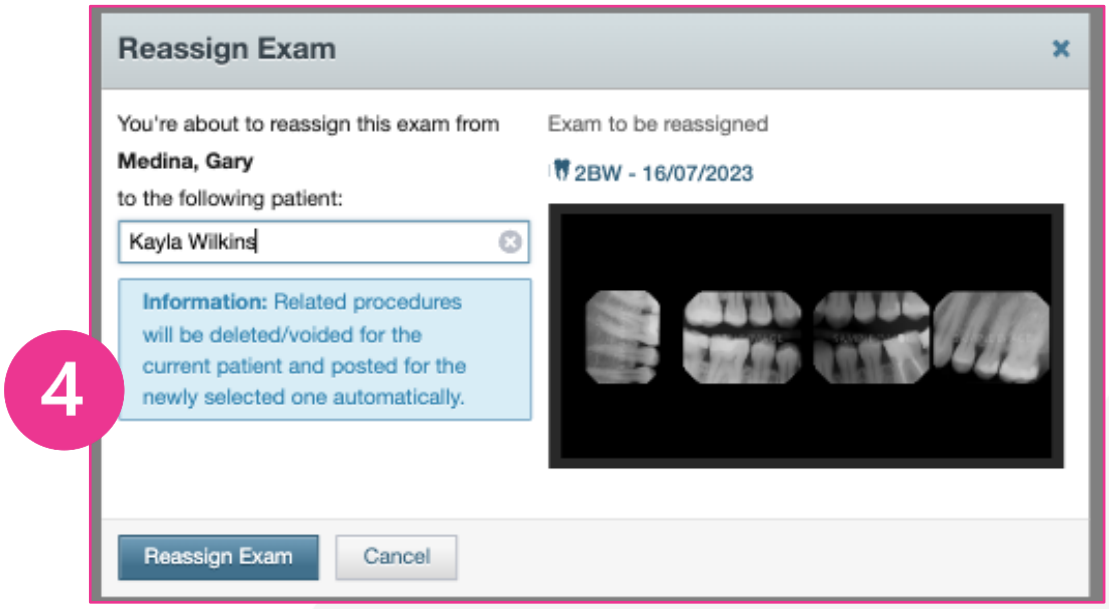


- Enter the name of the patient you'd like to reassign the exam to.
- A drop down of the patient options will display.

Note: Make sure you select the correct patient by checking the birthdate matches the patient you want to reassign the exam to. (image three)

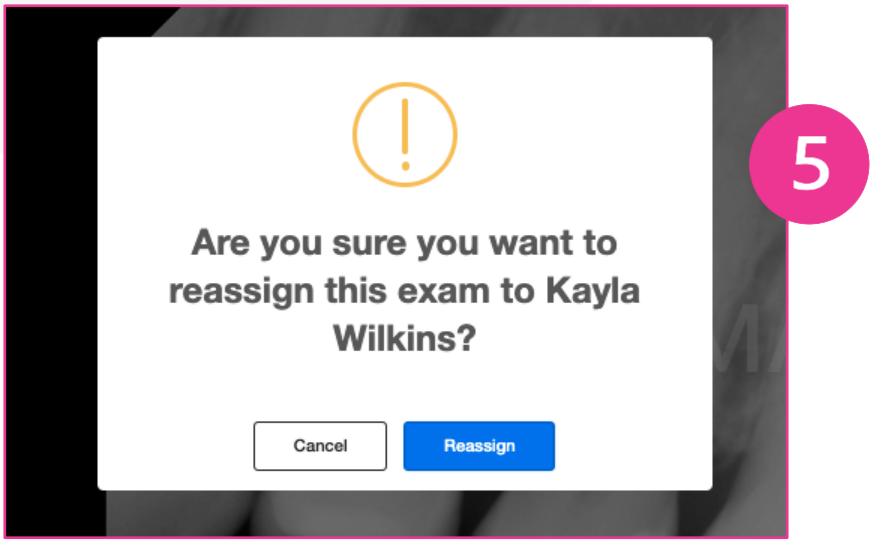


- Select the patient **making sure to pay attention to any information in the blue box.** (image four)
- Click **Reassign Exam** (image four)



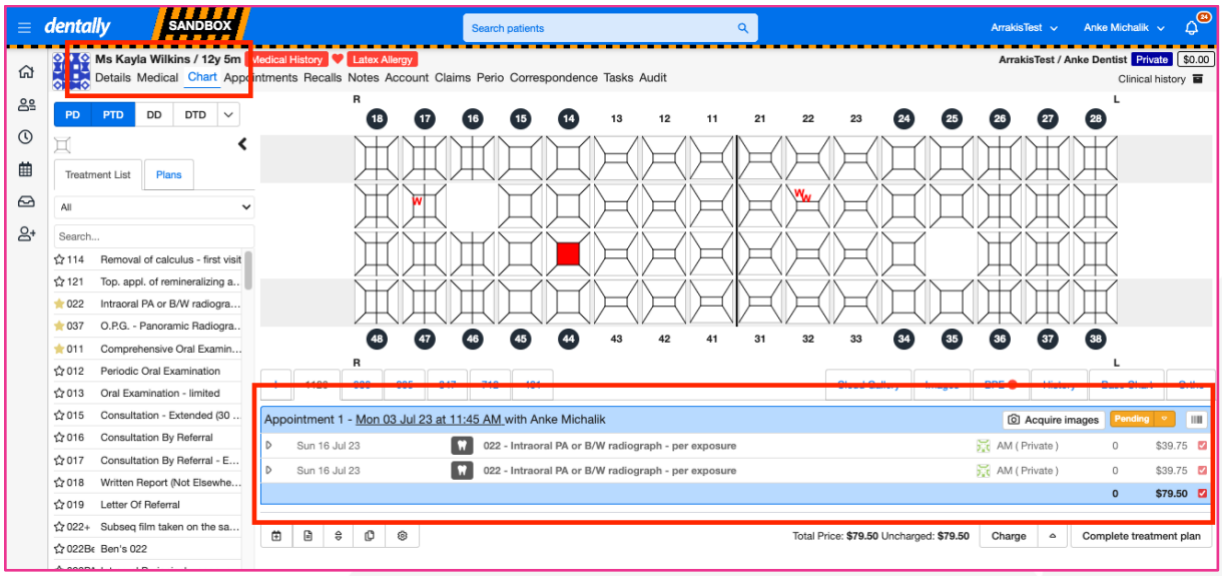
- An "Are you sure…." Message appears. (image five)
- Click **Cancel** to not reassign the exam to the selected patient and will stay on the current patient chart.

- Click **Reassign** and the exam will be transferred to the selected patients file.

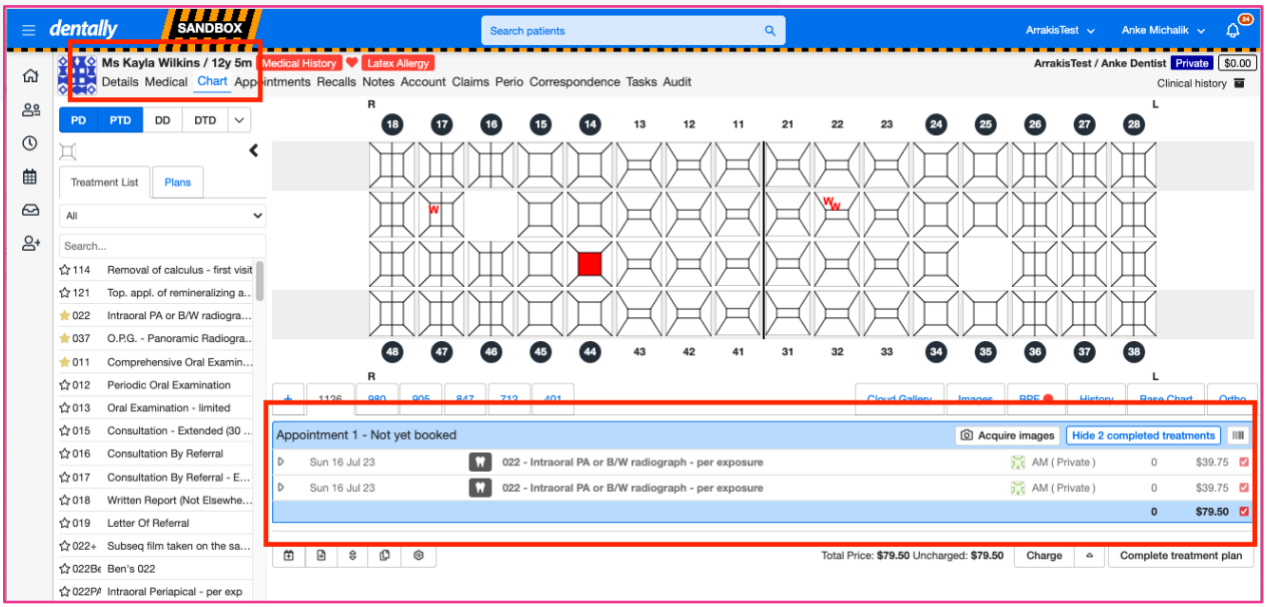


Note: If there is an appointment for the recipient today, then the exam will be transferred to that appointment. If there is no appointment for the recipient today, then the exam will be placed in a new, unlinked appointment.

Linked Appointment Example



Unlinked Appointment Example



The Dentally Vision exam and associated treatment items are now no longer visible on the patients file it was transferred from.

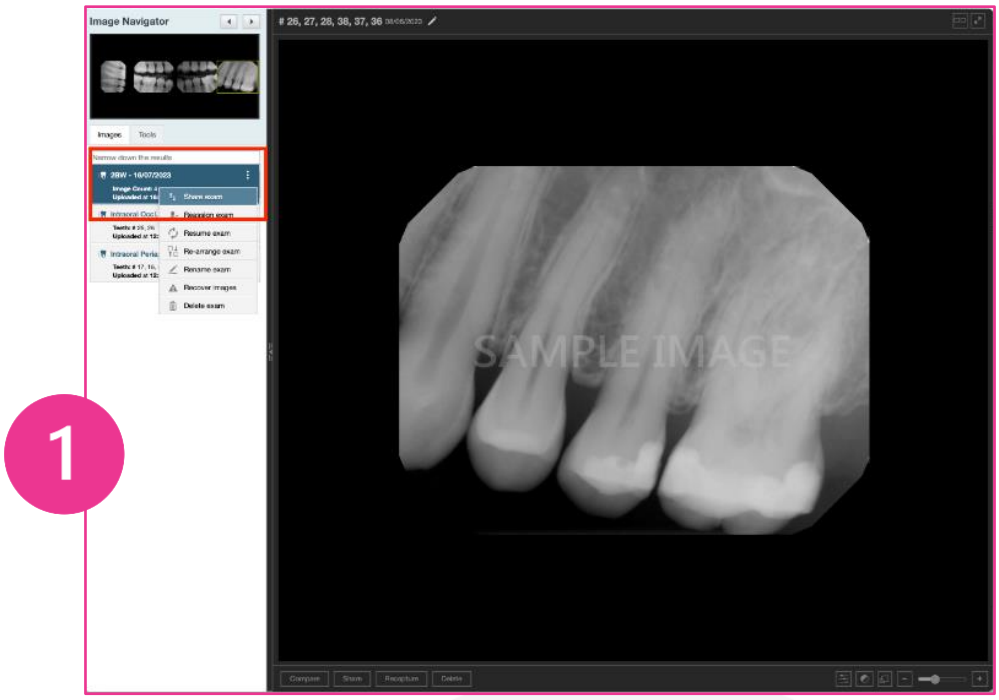
Sharing images

You can export and print images. The steps are the same for both with the difference being the choice of 'Export' or 'Print' to finish the procedure. If you choose the option to Export, the image(s) will download to your computer as an image file, if you choose the option to Print the image(s) will download to your computer in a .pdf format instead, allowing you to print the file.

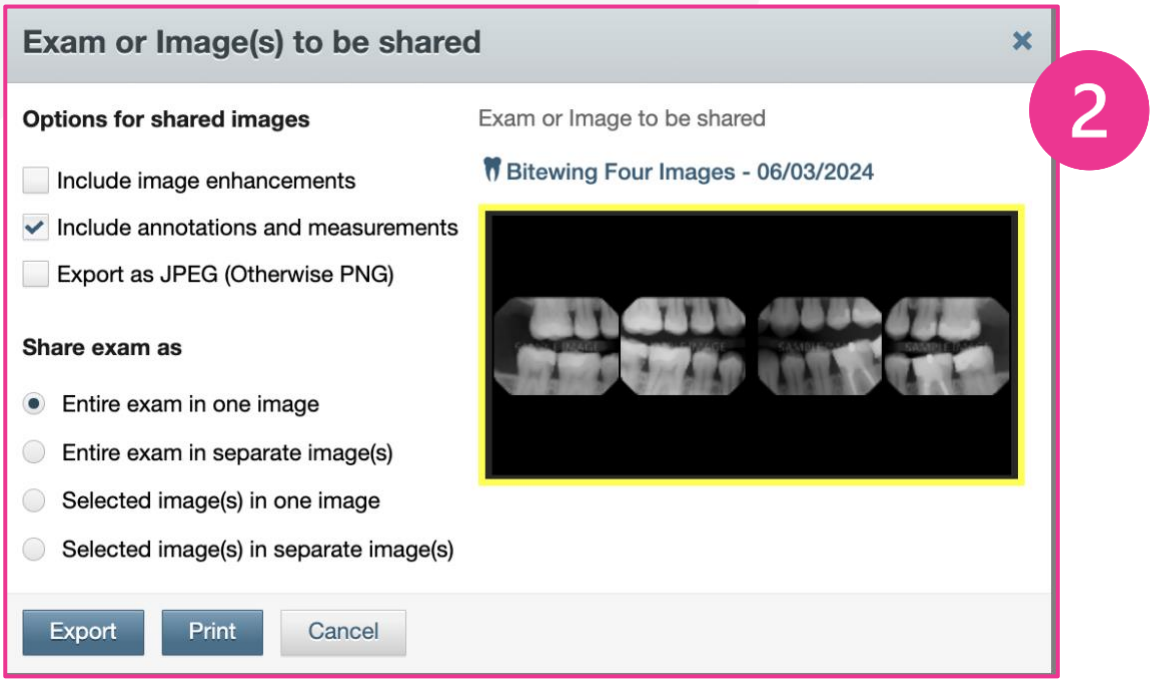
You can export/print an image (intraoral or extraoral; X-ray or photo), a specific image of a series, or an entire series (such as a full mouth series).

To export/print images:

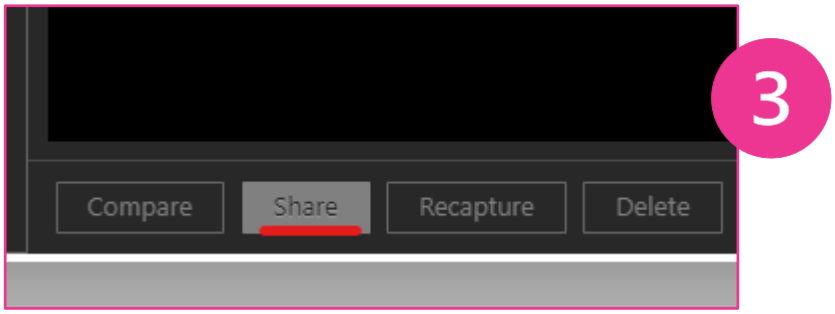
- Ensure the correct patient is selected.
- In the Patient Chart, click on an image.
- Click the image tab on the left to show the **Image History**.
- Select the images you want to share.
- Click on the dots to the right of the exam and select '**Share exam'**. (image one)



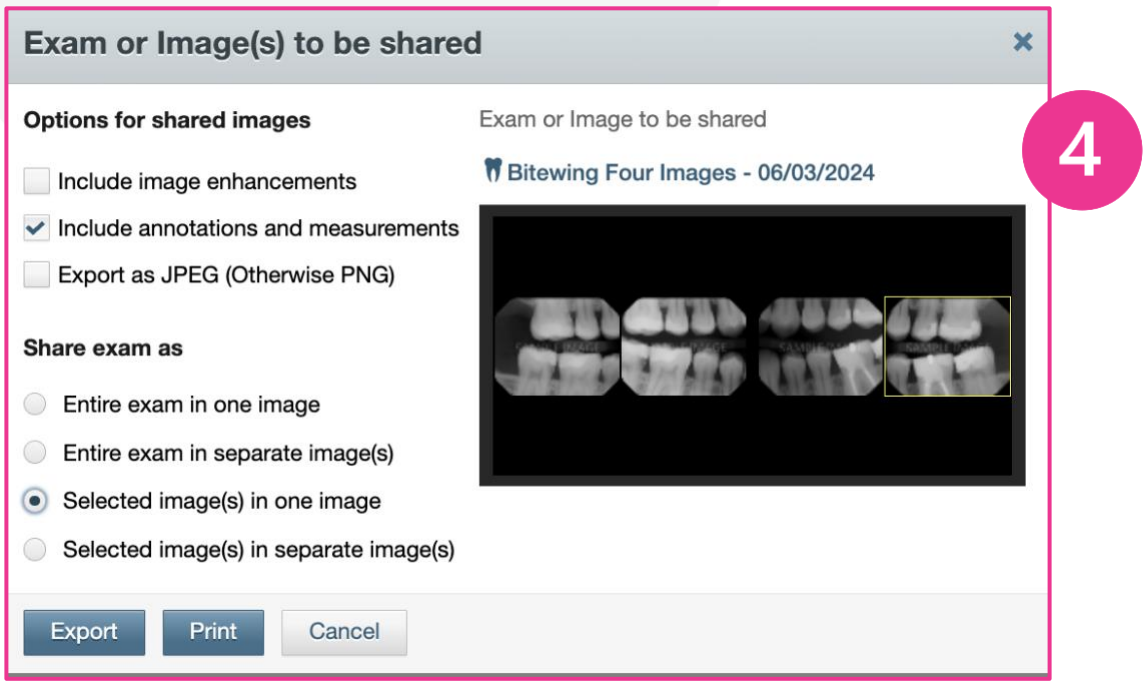
The following screen will appear with the whole series of images highlighted in yellow, the 'Share exam as' is set to 'Entire Exam in one image' by default, change as required. (image two)



If you click 'Share' from the bottom of the X-ray viewer area,



The following screen will appear with the single image highlighted in yellow, the 'Share exam as' is set to 'Selected image(s)' by default, change as required. (image four)



Note: If the image being viewed is a CAD/CAM scan, the image is downloaded as a .ply file. Ignore the steps that follow.

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 this check box to include any annotations or measurements that were added to the images being exported/printed. Clear this check box to export/print the images without the annotations and measurements.

- **Export as JPEG (Otherwise PNG)** – Select this check box 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. Note : This has no impact if you choose 'Print'.

- **Share exam as** –

- To export/print the series as one file that contains all the images, select the **Entire exam in one image** option. A yellow box appears around the entire preview area to indicate that the series is being exported/printed.
- To export/print each image in the series as an individual file, select the **Entire exam in separate image(s)** option. A yellow box appears around the entire preview area to indicate that the series is being exported/printed.
- To export/print only some of the images in the series, each as an individual file, select the **Selected image(s)** 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/printed. If necessary, you can click a selected image to remove the yellow box unless only one image is selected.
- **Selected image(s) in separate image(s)**, select multiple images and share as separate image files

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 becomes selected automatically.

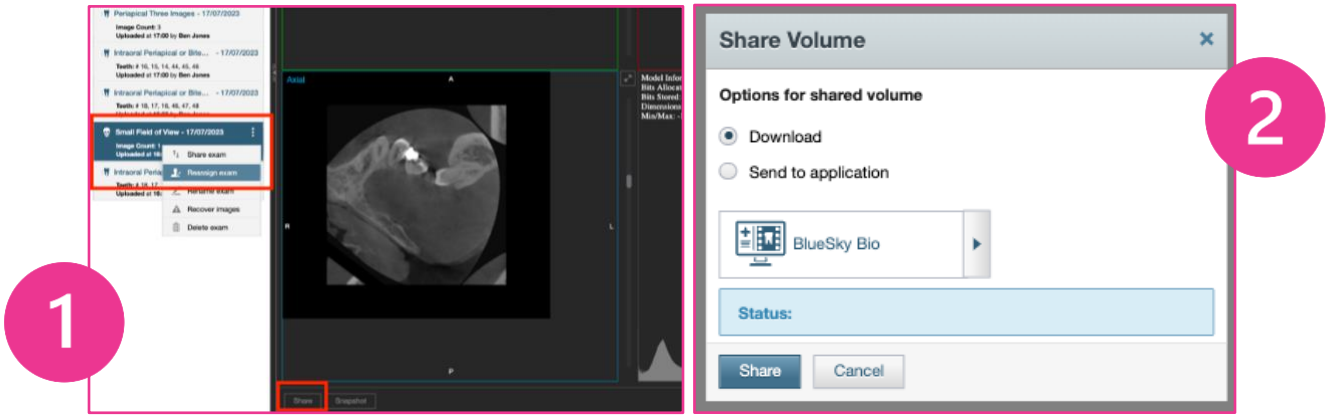
Click **Export/Print** and the images are downloaded.

Exporting 3D volumes

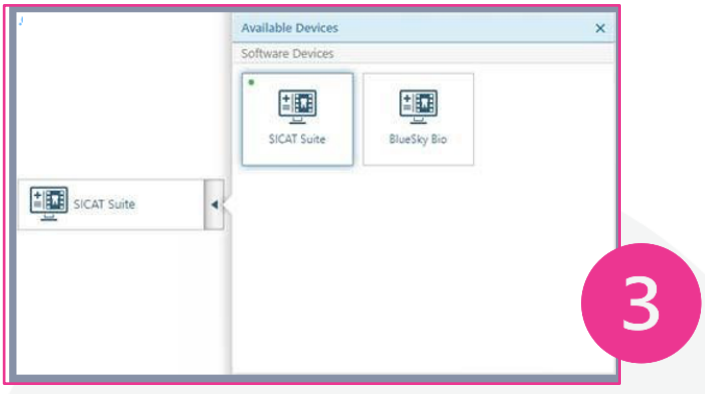
You can export a 3D volume by downloading it or sending it to an application.

To export a 3D volume:

- Ensure the correct patient is selected.
- In the Patient Chart, click on a 3D volume
- Click the image tab on the left to show the **Image History.**
- Select a 3D volume.
- Click on the dots to the right of the exam and select '**Share exam'** (Image one)
- Or, click on **Share** in the bottom left corner of the viewer
- The **Share Volume** dialog box appears (Image two)



- To download the volume, select the **Download** option
- To send the volume to a 3rd party application, select the **Send to application** option. Then select the correct application in the **Available Devices** menu if it is not already selected. (image three)



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

Click **Share** and the volume is downloaded or sent to the selected application.

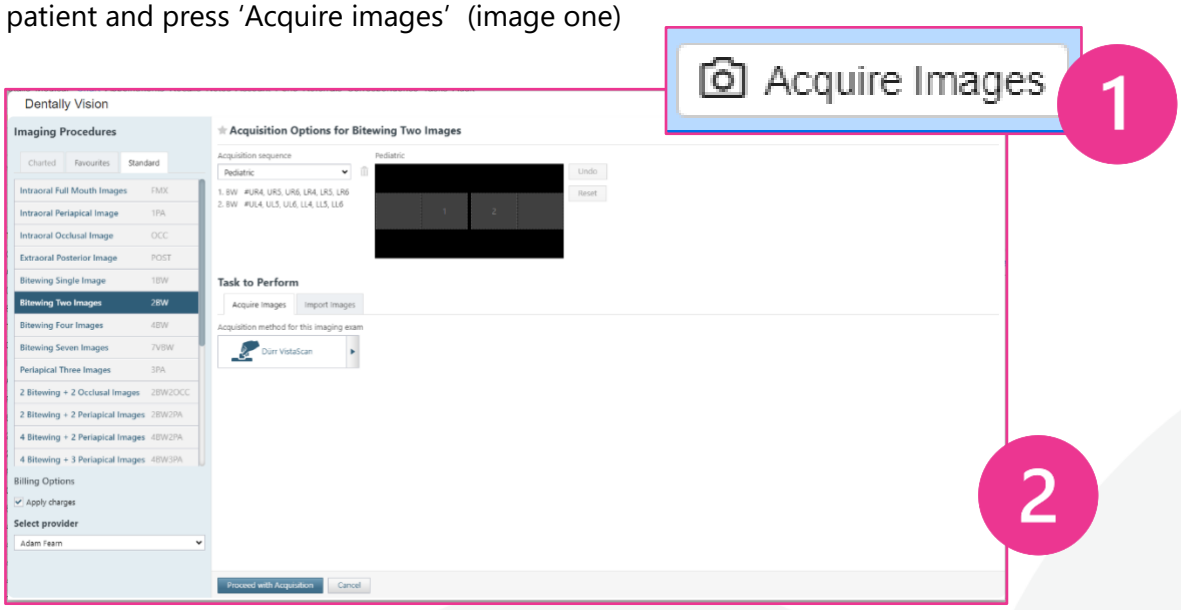
Managing favourite imaging procedures

You can add imaging procedures as favourites and remove them from the list of favourites.

You can have an imaging procedure appear as a favourite in Dentally Vision when you are acquiring images so that you have quick and easy access to that procedure. You can also remove the 'favourite' status from procedures you no longer use.

Add an imaging procedure to Favourites

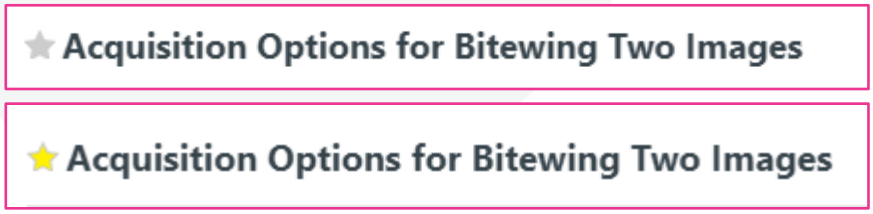
- This is a location specific setting, so if you are not already viewing the correct location, select it on the **Location** menu.
- Select a patient with a treatment plan or open an existing treatment plan for the current patient and press 'Acquire images' (image one)



Under **Imaging Procedures**, on either the **Charted** tab or the **Custom** tab, select the imaging procedure that you want to make a favourite. (Top of image two.)

Note: A favourite imaging procedure has a yellow star next to **Acquisition Options for [Procedure Name]** at the top of the screen once selected. A non- favourite has a grey star.

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



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

Removing an imaging procedure from Favourites

To remove the favourite status from a procedure, select the procedure and click the yellow star to revert it to a grey, non-favourite status

Merging patients

Merging before a conversion (preferred option)

This option will require you to identify and merge patients in your **previous practice management software** and your **previous imaging system BEFORE** the conversion to Dentally.

This means that patients and their images will already have been merged before the conversion to Dentally, ensuring a seamless migration experience.

Merging patients in Dentally

When merging patients in Dentally all images saved via Dentally Vision to your cloud gallery will merge automatically to the desired patient. Read more about the merging process on our help centre here.

How to locate an archived patient

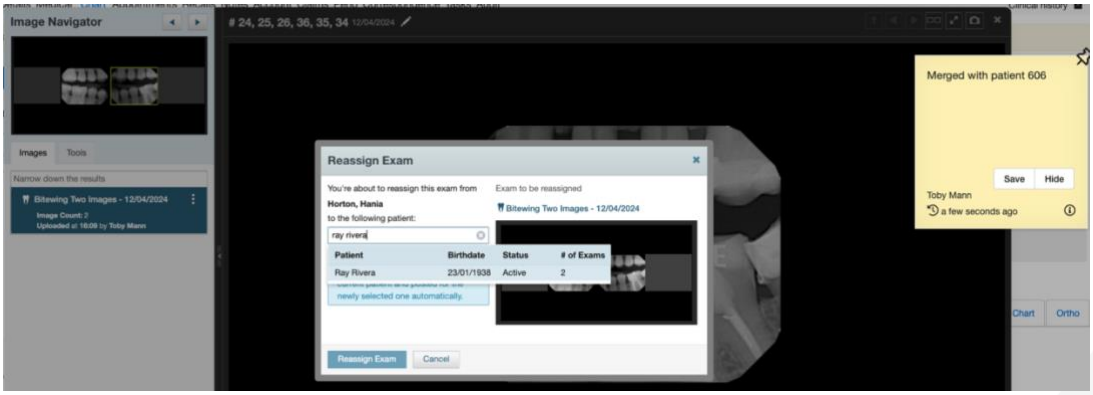
- Once a patient has been archived, you can find their records using the patient search. To find an archived patient, add an asterisk (*) at the front of your search criteria (name, mobile number or DoB).
- In the case where the user does not know the name of the record they merged, do the following:

- Each merged patient will have a note to say who it was merged with.
- Search for that patients ID in the Patients Report.

- Clicking into the Patient in the Patient Report will open up the archived record.

Once you have found the record you need to do the following:

1. Go to the archived patient and open the '**Cloud gallery'**.
2. Reassign the old exam to the destination merge patient - using the re-assign instructions on page 147 in this guide.



3. Now you will see the reassigned exam in the destination patient's cloud gallery and the source patient's cloud gallery will be empty.

Using the Clinical History Sidebar

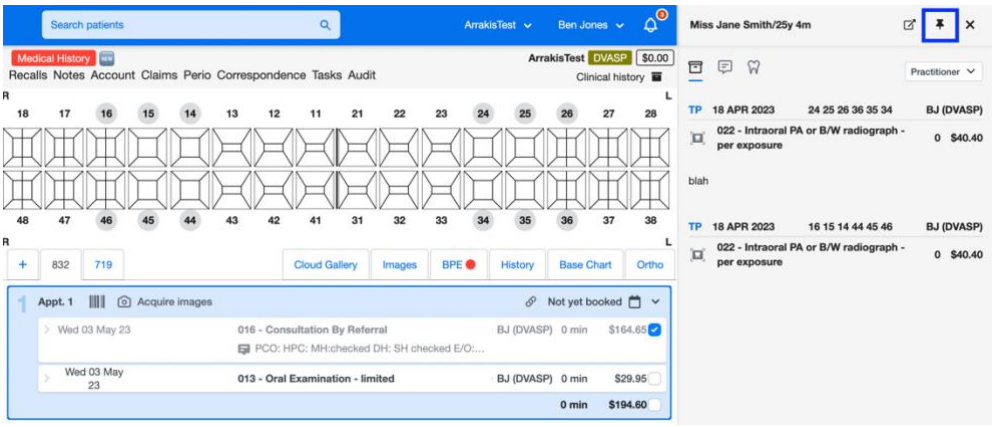
The clinical history sidebar can be used by Dentally Vision users to view patient images, providing a seamless workflow when needing to take notes and see images at the same time.

- Click on the clinical history tab in the top right of the patient's chat screen to open the clinical history sidebar.
- Navigate to the tooth icon in the top left of the sidebar.
- From here you will be able to see all the images/x-rays assigned to the current patient.

If you wish, from here you can filter, view or open in a new tab. You can also pin the sidebar so it remains on the screen no matter which tab you navigate to, allowing you to access a patients entire clinical history, images including, when on other tabs besides the Chart, such as Perio, Medical or Accounts.

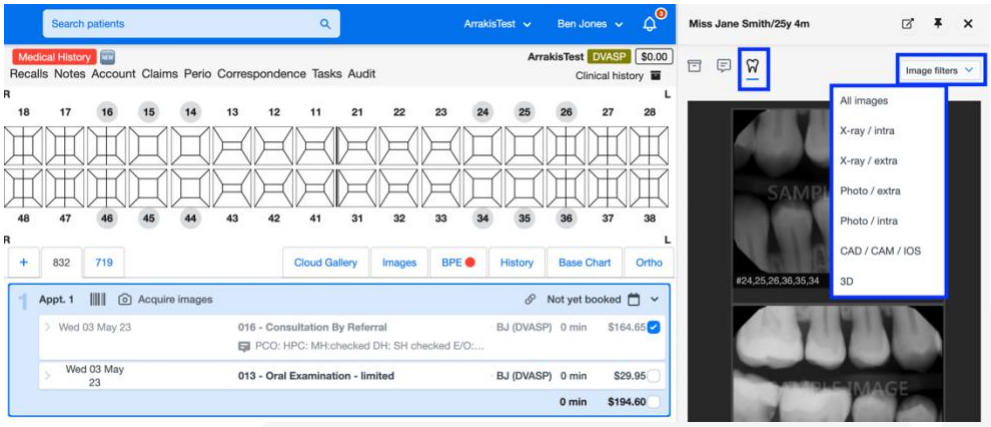
Pin the sidebar

To pin the side bar select the 'Pin' icon at the top of the panel. See image below.



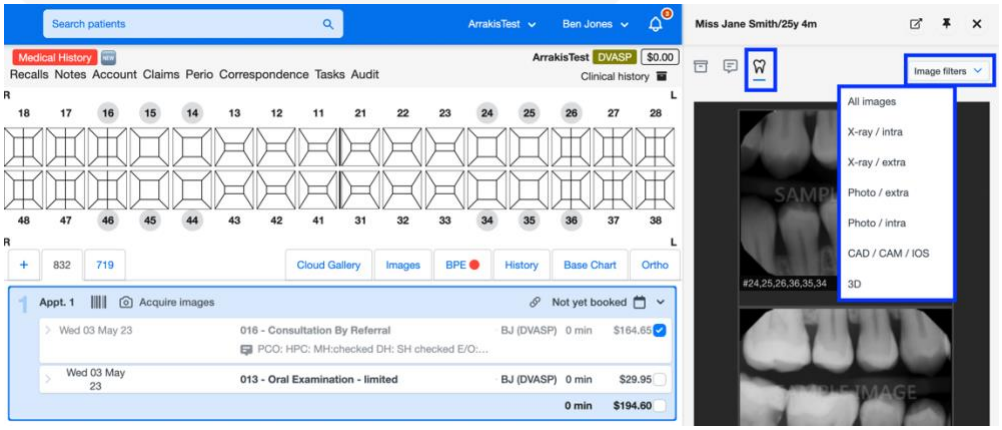
Filter the sidebar

To filter the sidebar images, simply use the drop down filter to changes which image type you are viewing on the panel. See image below.



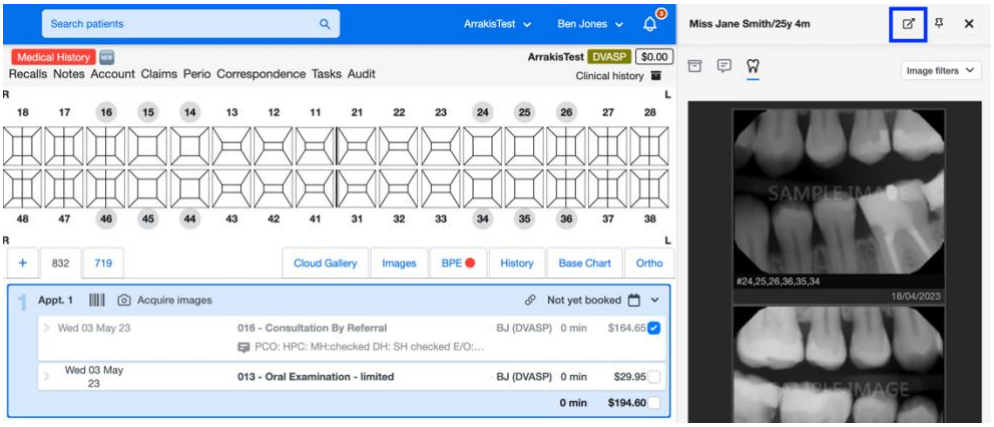
View images

To open the full view of a patients image/x-ray simply left click on the image in the sidebar to open the image itself in Dentally Vision. See image below.



Open in new tab

To open your clinical sidebar in a new tab use the 'new tab' icon at the top of the panel. This will close your sidebar and open it in another tab instead. See image below.

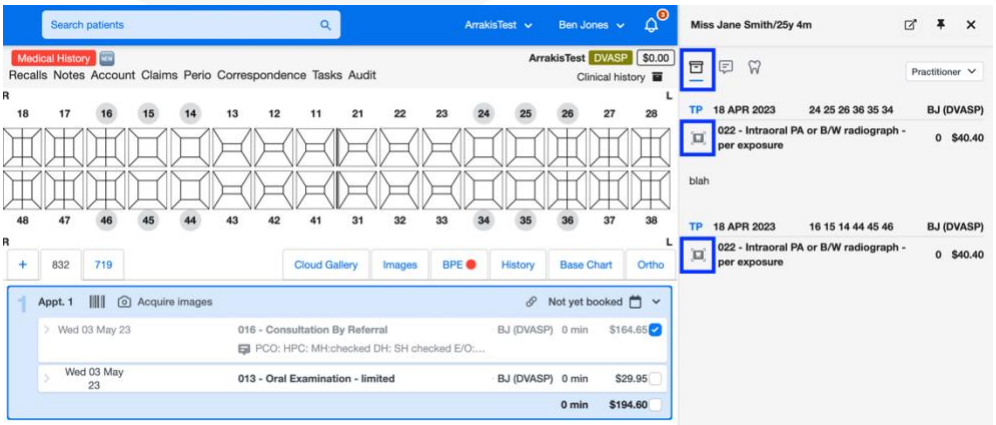


Switching patients / closing the patient file

When using the sidebar, If you close the patient file A or switch to patient file B, whilst still having a separate tab open for this patient, the tab showing patient's A images/x-rays will automatically close. This eliminates the risk of viewing the incorrect images for patient B.

Viewing treatment history

The clinical history sidebar of course hosts a full breakdown of each patient's treatment history. When you have the history tab selected you will notice any items that have x-rays/images assigned will have a small imaging icon to the left of the treatment. This allows you to easily see what items have images assigned. See image below.



[To read more about the clinical history sidebar head over to our dedicated help centre document here.]

Using the Dentally Vision Audit Trail

What is the Dentally Vision audit trail?

Dentally Vision audit trail is similar to the Dentally audit but focuses on the actions users take around Dentally Vision for each patient in a practice

Accessing the Dentally Vision audit trail

1. Open a patient's record in Dentally.
2. Navigate to the **Audit** tab.
3. Select the **Dentally Vision** sub-tab.
    - The default tab is **General** (for standard Dentally audit data).
    - The **Dentally Vision** tab specifically tracks imaging actions.

Filtering and navigating the audit trail

The Dentally Vision audit trail includes filtering options to help you find specific actions:

- **User**: Filter by the person who performed the action.
- **Action**: Select specific types of activity (e.g. 'Image added').
- **Date Range**: Choose a timeframe to narrow the results.
- **Reset Button**: Clears the date and shows all available data.

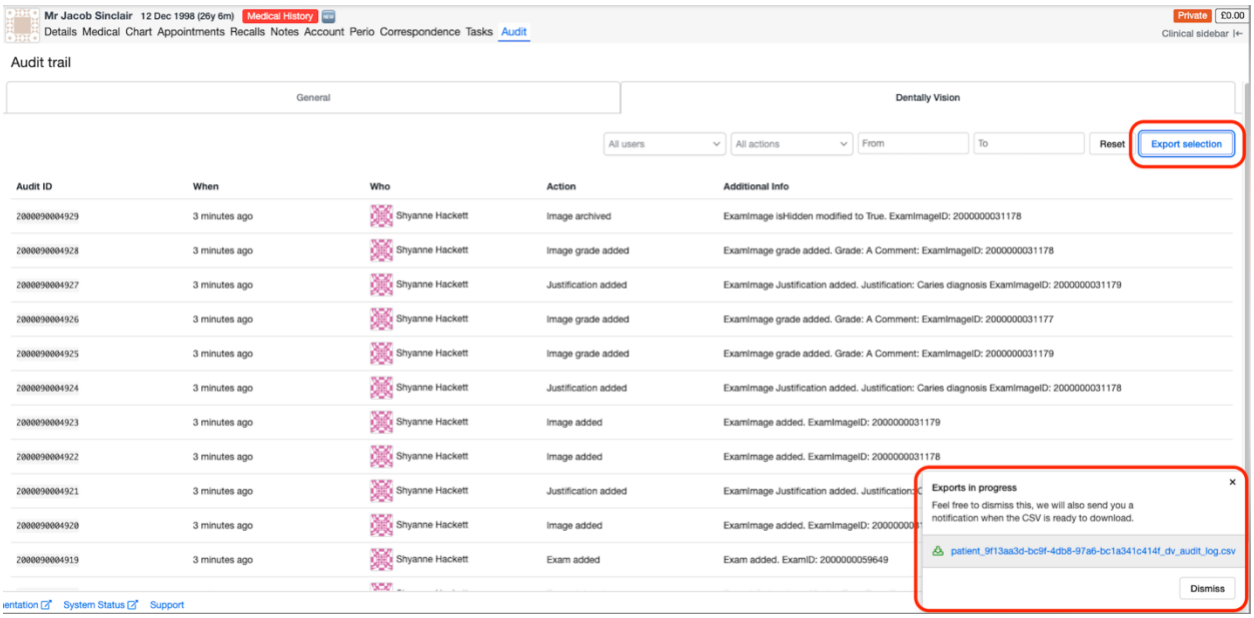
You will be able to see the following information for each data point that matches your filters:

- Audit ID - the ID given to the line item
- When - the date the action occurred

- Who - the user who performed the action
- Action - the type of action
- Additional Info - any additional information relating to the action

Export audit trail data

You can export your selection using the 'Export selection' button in the top right of the audit trail. This allows you to save the audit trail as per your selected dates and filters locally to your machine.



What actions will I see listed on the Dentally Vision audit?

You can filter and report on all the following actions as well as export any necessary data as needed.

- **Exam added:** This logs when an exam is added to the patient's record. An exam is a group of one or more images. This applies for all image types (e.g. radiographs, photographs, 3D ect).
- **Exam modified**: Any exam modification e.g. renamed
- **Exam deleted:** The exam has been deleted

- **Image added:** This logs when an individual image is added to the patient's record. In Dentally Vision all images belong to an exam (see above).
- **Image modified:** Any image modification - this includes:
- **Annotation**: An annotation was modified (added or removed)
- **Deleted**: An image was hidden or unhidden
- **One click tools modified**: Any tool is used (e.g. rotation)
- **Image deleted**: The image has been deleted

Exam reassigned: This logs when an exam belonging to the current patient is reassigned to a different patient.

Image reassigned: This logs when an image belonging to the current patient is reassigned to a different patient. This is part of the above Exam reassigned action. Images cannot be reassigned individually but there will be an audit record per image.

Patient added: The patient has been added to Dentally Vision. This happens automatically when the chart is first opened by a user.

- **Image grade added: UK only -** An image grade has been applied to the image (includes rejected image note)
- **Image grade modified: UK only -** An image grade has been modified for the image (includes rejected image note)
- **Image grade deleted: UK only -** An image grade has been removed from the image (includes rejected image note)
- **Justification added:** A justification has been applied to the image
- **Justification modified:** A justification has been modified for the image
- **Justification deleted:** A justification has been deleted for the image
- **Custom filter level added:** The image's custom filters have been added e.g. brightness, contrast, black level, white level.
- **Custom filter level modified:** The image's custom filters have been modified e.g. brightness, contrast, black level, white level.
- **Exam exported:** The exam was shared using the export button

- **Exam printed:** The exam was shared using the print button
- **Image exported:** The image was shared using the export button
- **Image printed:** The image was shared using the print button

Using Offline Mode

Dentally Vision supports an offline mode of operation. You can use the offline mode to acquire images when you cannot access Dentally Vision online (for example, if the Internet is not working at the office). Offline mode allows you to acquire new images for diagnosis, and you can synchronize those images with your online database after you are back online.

Offline mode uses a local embedded database (for temporary storage of patient information, metadata, images etc), and an embedded web server (embedded in the acquisition agent) to provide offline mode functionality. The latest acquisition agent installer automatically installs and sets up the database and web server.

Acquiring images in offline mode

The workflow for acquiring images offline is nearly identical to the online (normal) mode, but note the following differences:

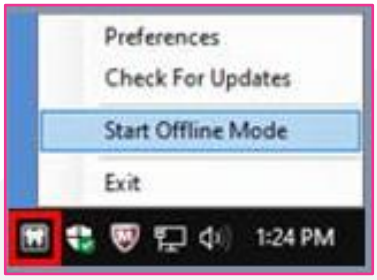
- You start offline mode from the acquisition agent.
- You enter a patient's information prior to acquiring images.
- The billing and provider options are not available, but you select them during the synchronization process.

To acquire offline images

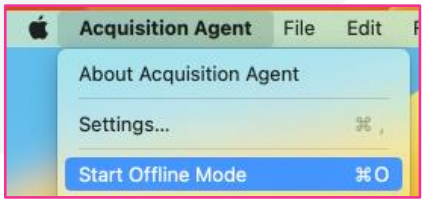
- Close all Chrome browser windows.

Important: To prevent any issues that may occur while starting the offline mode, close all Chrome browser windows that may be open.

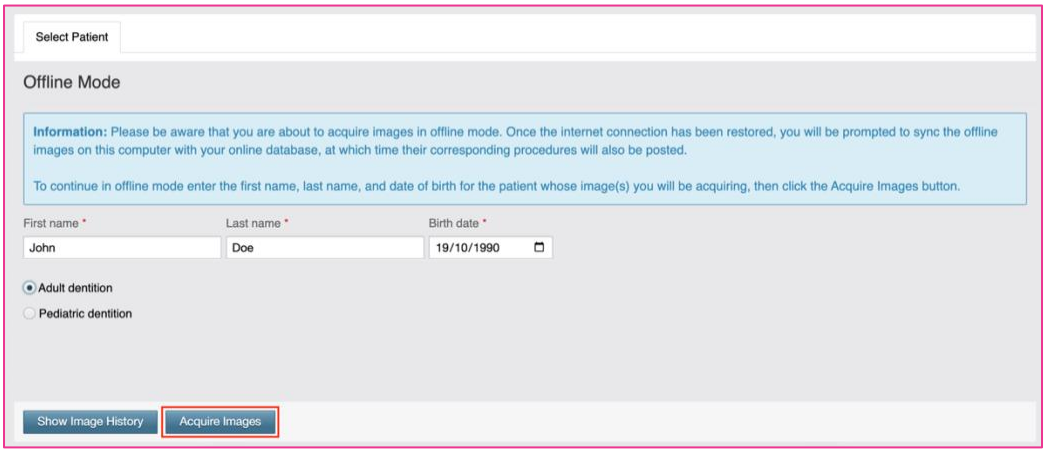
- **For Windows users** - Click the '**Acquisition Agent'** icon taskbar, and then click '**Start Offline Mode'**.



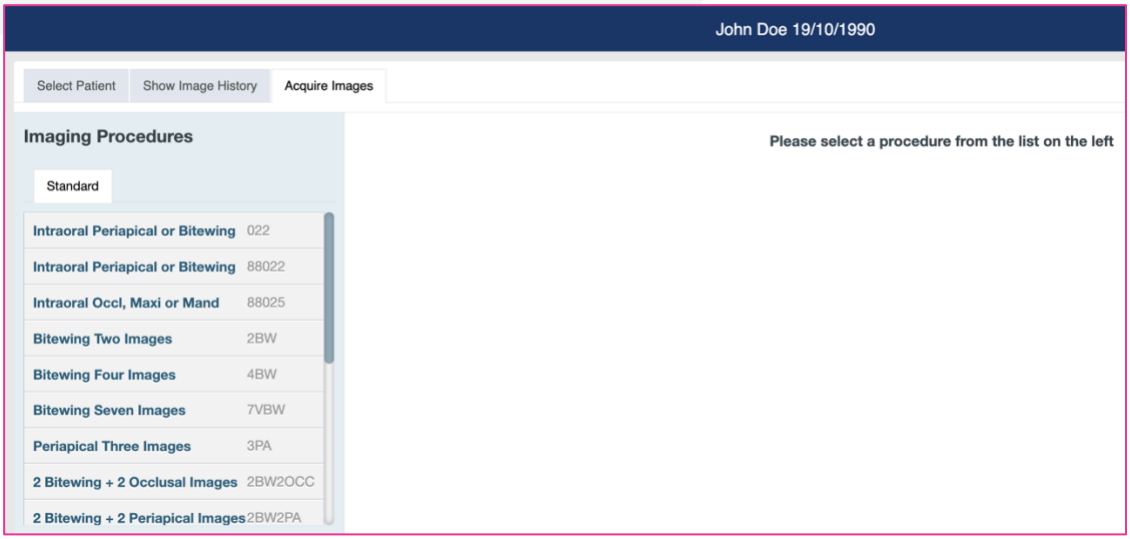
- **For Mac users** - Click the '**Acquisition Agent'** icon on the dock. From the **Acquisition Agent** menu, click '**Start Offline Mode'**.



- A new Chrome browser window opens with Dentally Vision running in offline mode.
- Enter the **First name**, **Last name**, and **Birth date** of the patient you want to acquire images for.
- Select whether the patient has **Adult dentition** or **Pediatric dentition**.
- Click '**Acquire Images'**.



- The **Acquire Images** tab is selected by default, and the options for acquiring images, using the standard imaging procedures, are available.



Note: The billing and provider options are not available while you are using the offline mode, but you select them during the synchronization process (after you return to using Dentally Vision online).

Acquire images similarly to how you would when using Dentally Vision online.

When you are finished acquiring the patient's images, close the Chrome browser window with Dentally Vision running offline to end the offline acquisition session for the patient or click the **Select Patient** tab to acquire or view images for another patient.

Viewing offline images

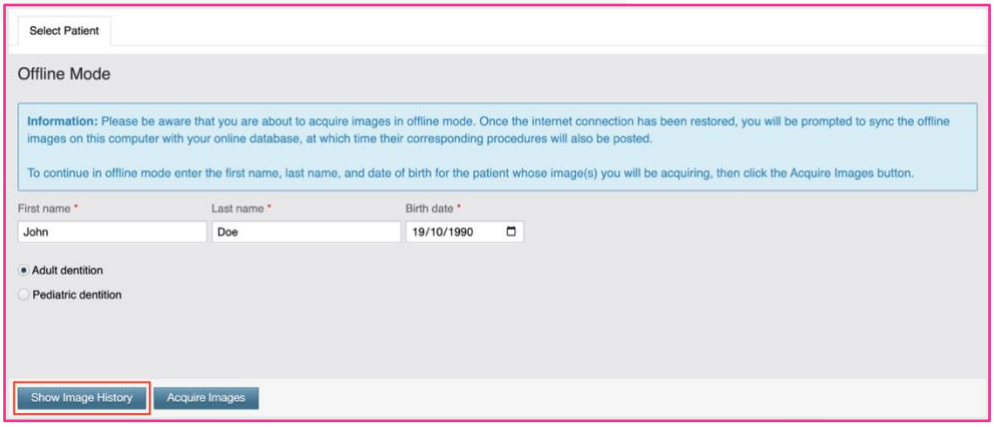
If a patient has offline images (images that have been acquired while using the offline mode) that have not been synchronized with that patient's online record, you can view those images.

Note: You cannot delete exams while you are using the offline mode, but you can delete images from an exam unless there is only one image.

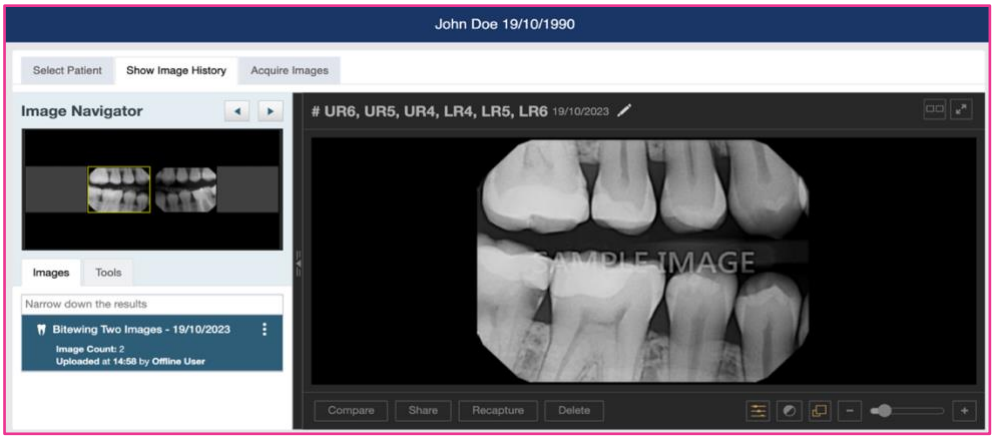
To view offline images

- Follow the same process as above – To acquire offline images.
- Once you have entered the **First name**, **Last name**, and **Birth date** of the patient you want to view images for, then click on '**Show Image History'.**

- The **Show Image History** tab is selected by default.



- You can view the patient's offline image history chronologically and quickly navigate between each image.



- To display only the images that match the filter criteria that you specify, click in the '**Narrow down the results'** box.

- You can work with images as you usually would while using Dentally Vision online. For example, you can process *(such as enhance or annotate*) images, compare, export, and resume incomplete exams.

When you are finished viewing the patient's images, close the Chrome browser window with Dentally Vision running offline to end the offline viewing session, or click the '**Select Patient'** tab to acquire or view images for another patient.

Synchronising offline images

Once you get back online, you will want to synchronize any offline images (images that have been acquired while using the offline mode) with your online database.

When you attempt to acquire images with Dentally Vision, if any offline images exist on the computer that you are using, a message appears and asks if you want to synchronize the offline images now or to be reminded to synchronize them later.

Note: If any offline images have been acquired for a new patient, before you can synchronize those images with your online database, you must create a patient record in Dentally Vision; there is not an option to create a patient record during the synchronization process.

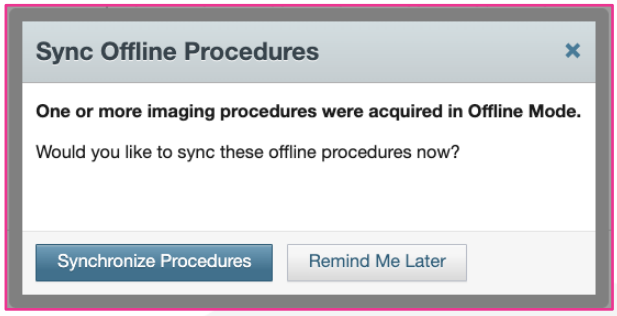
To synchronise offline images

- Close all Chrome browser windows.

Important: Close all Chrome browser windows before attempting to synchronize offline images with online patient records. You cannot synchronize offline images if the offline mode of Dentally Vision is open in any Chrome browser window.

- Open Dentally Vision in a new browser window.
- In a patient's clinical record, click '**Acquire Images'** from the Imaging tab menu.

If any offline images exist on the computer that you are using, the **Sync Offline Procedures** message box appears.



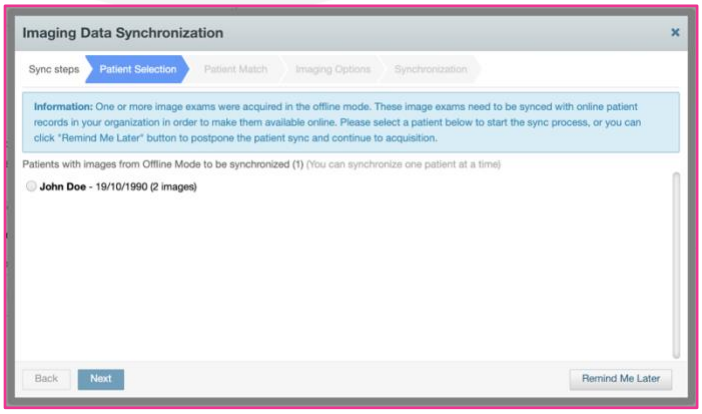
Note: To postpone the synchronisation for a later date, click '**Remind Me Later'**. Dentally Vision will not prompt you again today to synchronize offline images from this computer.

- Click '**Synchronise Procedures**.'

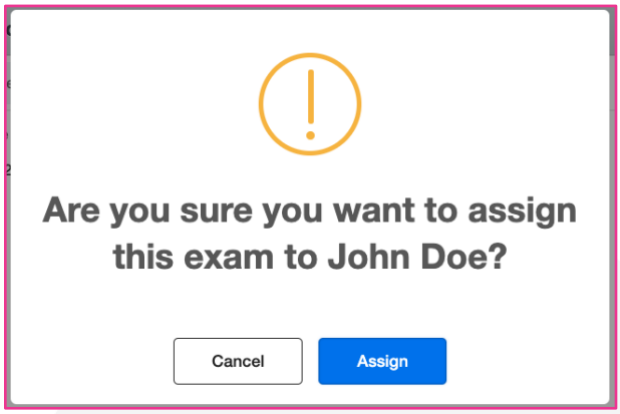
The **Imaging Data Synchronisation** dialog box appears and lists the patients who have offline images on this computer.

- Select a patient.

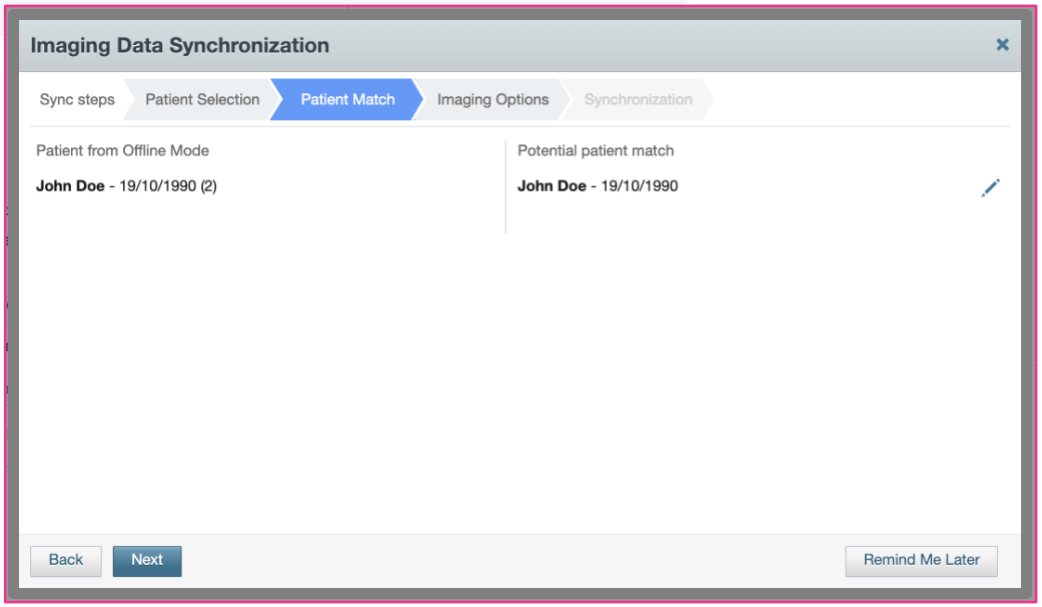
Note: You can synchronize only one patient's record at a time.



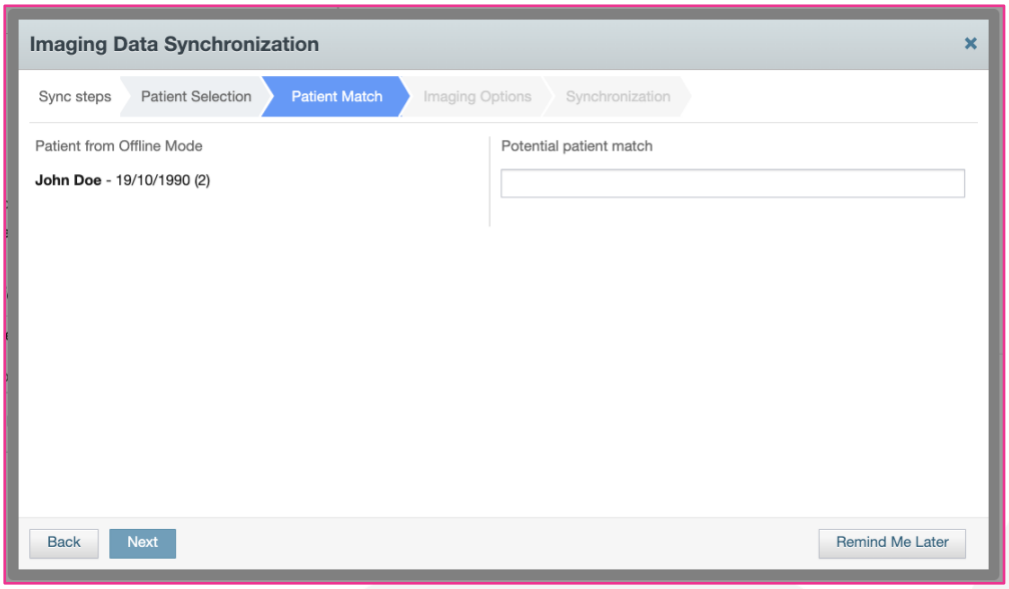
- Click '**Next**.'
- The **Patient Match** tab is selected, and one of the following occurs:
- If a matching patient (a patient with the same first name, last name, and date of birth) is found in your online database, that patient's name and birth date appear, and you will be asked to confirm the patient assignment.
- To confirm the selection, click the **'Assign'** button



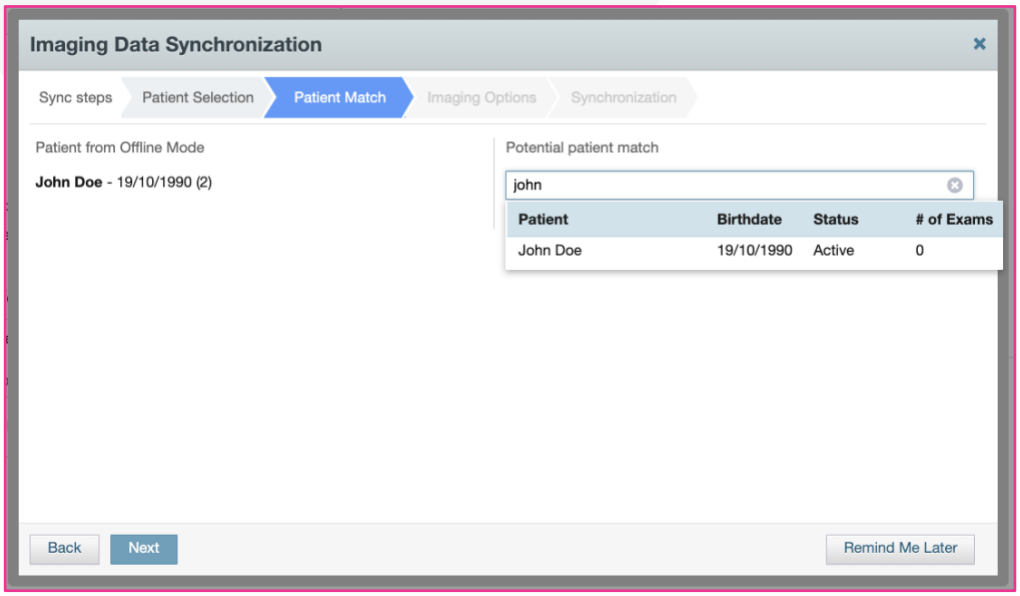
- The Patient Match screen is then shown to confirm the patient details.



- If a matching patient is not found, the Search existing patient box is available.



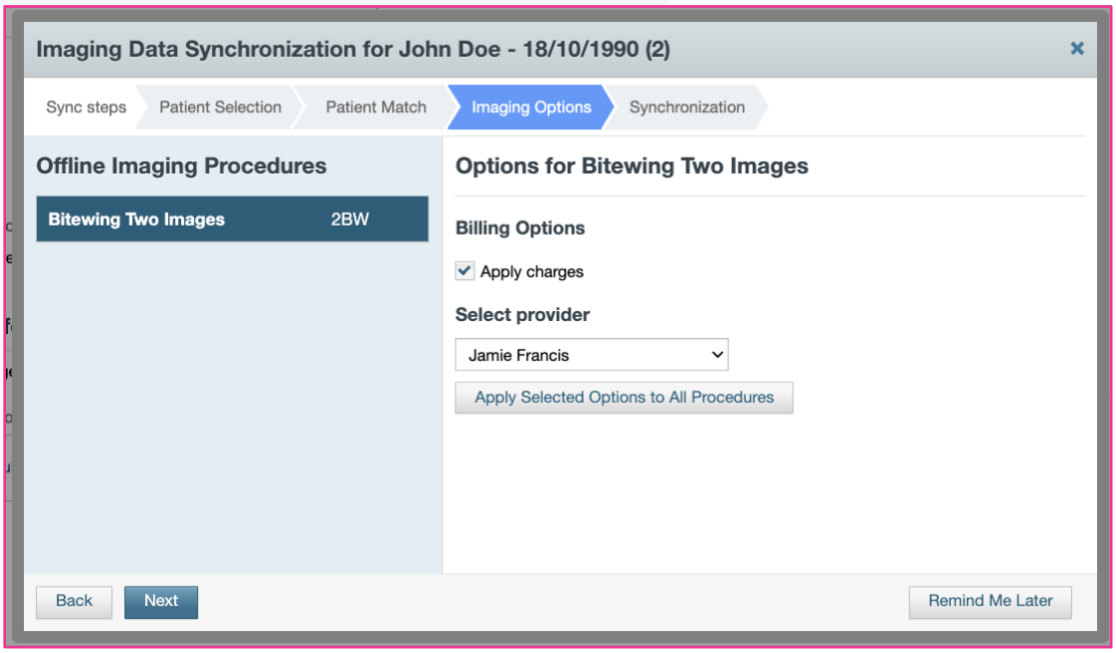
- The current patient will always display once the search is triggered.



Note: If the patient returned in the search bar is not the correct one, go back into Dentally, find the correct patient and start the sync process again.

- Click '**Next'**
- The **Imaging Options** tab is selected and under **Offline Imaging Procedures**, a list of the patient's imaging procedures appears. The first imaging procedure is selected by default.
- At this point you can also choose to postpone the synchronisation for later by clicking

- '**Remind Me Later'**, or you can go back and change the patient by clicking '**Back'**.



For the selected imaging procedure, set up the following options:

Apply charges – To post the fee for the selected procedure, select the check box. To post a zero amount for the procedure, clear the check box.

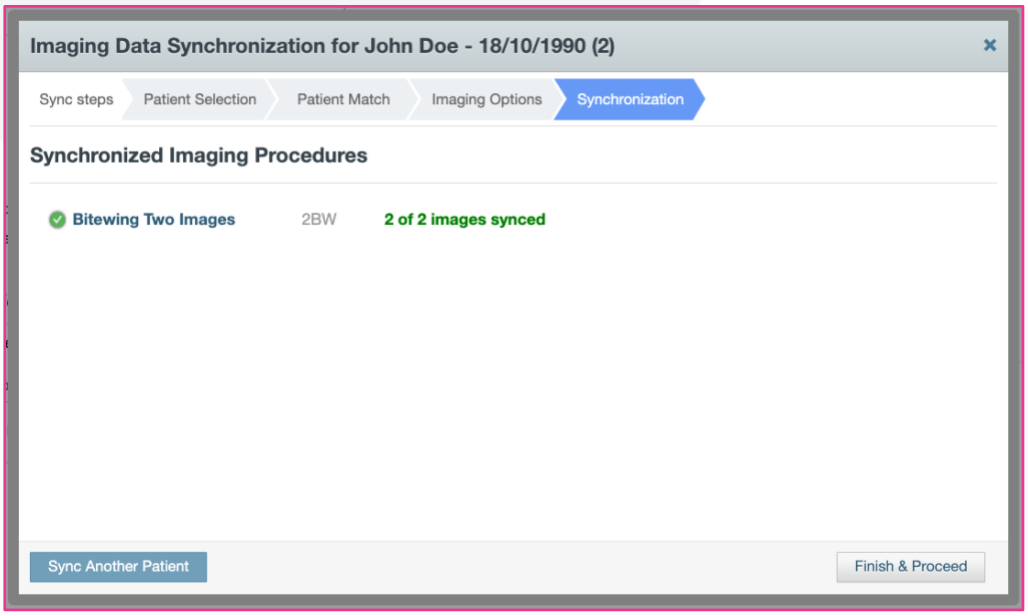
Select provider – Select the provider who you want to associate with the procedure. Only providers who have access to the current location are available.

If there are multiple imaging procedures, do one of the following:

To assign the selected billing options and provider to all the procedures that are listed, click '**Apply Selected Options to All Procedures'**.

To assign billing options and a provider for each procedure separately, select the next procedure, and then repeat. Repeat this process until you have selected billing options and a provider for all the procedures that are listed.

- Click '**Next'** to begin synchronizing images.
- If the synchronization is successful, a green check mark symbol appears next to each imaging procedure.



What to do if my images are failing to sync?

If an imaging procedure fails to be synchronized, a red error symbol and message appear. Click '**Sync the Procedure Again'** next to that procedure to try synchronizing it again.

If an imaging procedure fails to be synchronized a second time, either click '**Sync the Procedure Again'** to try synchronizing it again, or you can click '**Hide Procedure'.** This will move the corresponding images to a recovery folder on the active computer. *(You will not be prompted to synchronize the hidden procedure again, but you can recover the images by attaching them to a patient record later).*

If you have finished synchronizing the patient, or if you have not, and want to begin acquiring images for the selected online patient, click '**Finish & Proceed'** to proceed to the acquisition options.

If you have multiple patient's images to sync, you must sync each patient's images from their Dentally patient chart individually.

To sync a second patient after completing the first patient, click **'Finish and Proceed'**, open the second patient's chart in Dentally and begin the offline sync process again.

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