



# DTX Studio™ Clinic

Version 4.4

**Instructions for Use**

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# Introduction

## Disclaimer of Liability

This product is part of an overall concept and may only be used in conjunction with the associated original products according to the instructions and recommendations of Nobel Biocare, hereinafter referred to as 'the Company'. Non-recommended use of products made by third parties in conjunction with products of the Company will void any warranty or other obligation, express or implied. The user has the duty to determine whether or not any product is suitable for the particular patient and circumstances. The Company disclaims any liability, express or implied, and shall have no responsibility for any direct, indirect, punitive or other damages, arising out of or in connection with any errors in professional judgment or practice in the use of these products. The user is also obliged to study the latest developments in regard to this product and its applications regularly. In cases of doubt, the user has to contact the Company. Since the utilization of this product is under the control of the user, it is his/her responsibility. The Company does not assume any liability whatsoever for damage arising thereof.

Please note that some products detailed in this Instructions for Use may not be regulatory cleared, released or licensed for sale in all markets.

**Before using DTX Studio™ Clinic, please read these Instructions for Use and retain it for future reference. Please note that the information provided in this document is intended to get you up and running.**

## Device Description

DTX Studio Clinic is a software interface for dental/medical practitioners used to analyze 2D and 3D imaging data, in a timely fashion, for the treatment of dental, craniomaxillofacial and related conditions. DTX Studio Clinic displays and processes imaging data from different devices (i.e. intraoral and extraoral X-Rays, (CB)CT scanners, intraoral scanners, intraoral and extraoral cameras).

## Intended Purpose

Intended purpose of the software is to support the diagnostic process and treatment planning for dental and craniomaxillofacial procedures.

## Intended Use / Indications for Use

DTX Studio Clinic is a software program for the acquisition, management, transfer and analysis of dental and craniomaxillofacial image information. It can be used to assist in the detection of the suspected dental findings and to provide design input for dental restorative solutions.

It displays and enhances digital images from various sources to support the diagnostic process and treatment planning. It stores and provides these images within the system or across computer systems at different locations.

## Intended User and Intended Patient Target Group

DTX Studio Clinic is used by an interdisciplinary treatment team, to support them in treating patients who are subject to dental, craniomaxillofacial or related treatments.

## Supported Products

Surgical guide shape file (STL).

## Required Compatibility with Other Devices

DTX Studio ecosystem is compatible with the most used operating systems Windows and Mac including the latest releases.

DTX Studio Clinic is connected with other medical devices and compatible with previous DTX Studio Clinic versions.

### Intraoral Sensors

DEXIS™ Titanium, DEXIS Platinum, GXS-700™, DEXIS IXS™, Gendex™ GXS-700™.

### Intraoral Cameras

DEXIS™ DexCAM™ 4 HD, DEXIS™ DexCAM™ 3, DEXIS™ DexCAM™ 4, Gendex™ GXC-300™, KaVo DIAGNOcam™ Vision Full HD, KaVo DIAGNOcam™, CariVu™, KaVo ERGOcam™ One.

### Intraoral Scanning

Compatibility with MEDIT Link Software\*

Compatibility with DEXIS™ IS ScanFlow\* which supports the CS 3600/DEXIS IS 3600, CS 3700/DEXIS IS 3700 intraoral scanner, CS 3800/DEXIS IS 3800 or other compatible models.

### Software

DTX Studio™ Core\*, DTX Studio™ Implant, DTX Studio™ Go, DTX Studio™ Lab\*, CyberMed OnDemand3D™\*, Osteoid (formerly Anatomage) InVivo™.

\* Product available for Windows operating system only.

After updating the software version, it is recommended to verify the critical settings of the open patient cases and/or treatment plan to make sure these settings are correct in the new software version. Incorrect settings may lead to a delay in or the rescheduling of the diagnosis and planning or the actual treatment.

## Devices with Measuring Function

The measurement accuracy and precision are 0.1 mm for linear measurements and 0.1 deg for angular measurements based on the input of (conebeam) CT-scans, acquired according to the instructions for use of the scanner equipment, with a voxel size of 0.5 mm x 0.5 mm x 0.5 mm.

DTX Studio Clinic reports the value, rounded to one digit after the decimal point, based on user-picked points.

## Contraindications

N/A

## Cybersecurity

Protecting your practice against cybersecurity threats is a shared responsibility between us as the manufacturer and you as the health care provider. Nobel Biocare has taken precautions to ensure that the software is protected against such threats.

It is recommended that active and up-to-date antivirus and anti-malware software, together with a correctly configured firewall, are installed on the computer where DTX Studio Clinic is to be used. Failure to do so may lead to unauthorized access.

In a setup with DTX Studio Core, it is recommended to connect with DTX Studio Core through https. See the DTX Studio Core guidelines on how to set up this connection.

It is recommended to enable audit logging in the settings and ensure the protection of these logs against unauthorized access. Failure to do so may prevent malicious activity from being detected.

Use two-factor authentication to access the software and always lock the computer when it is left unattended. Failure to do so may lead to unauthorized access.

Make sure the office network is protected from unauthorized access and separated from the visitor network. Failure to do so may lead to unauthorized access.

To quickly recover from any unexpected system failure or malicious event that may cause data loss, it is advised to regularly back up the patient data.

It is recommended to start DTX Studio Clinic without administrative privileges. Failure to do so may lead to unintended starting of malicious third-party executables.

It is recommended to always update DTX Studio Clinic to the latest available software version. Failure to do so may lead to unauthorized access.

For more technical details concerning back-ups, firewall and security settings during installation, please refer to the DTX Studio Clinic installation guide.

The software bill of materials (SBOM) of the software is available upon request. Please contact customer support ([www.dtxstudio.com/en-int/support](http://www.dtxstudio.com/en-int/support)) to receive your copy.

### What to Do in Case of a Cybersecurity Event?

In the event of a potential system compromise by intrusion or malicious software, the user may note unfamiliar product behavior and/or performance impact. In this case the user is advised to contact customer support immediately ([www.dtxstudio.com/en-int/support](http://www.dtxstudio.com/en-int/support)).

## Decommissioning and Disposal

When terminating the use of DTX Studio Clinic on your computer or when disposing your computer on which DTX Studio Clinic is installed:

- Make sure to back up all necessary data from the application in accordance with local laws and regulations concerning data protection and data privacy to avoid any loss of relevant information.

- Uninstall the application: You should uninstall the application from your device by following the instructions of your operating system provider to prevent unauthorized access to DTX Studio Clinic and the data stored in the software.

## Interoperability

DTX Studio Clinic is interoperable with:

- DTX Studio Core.
- DTX Studio Implant.
- DTX Studio Go.
- DTX Studio Lab.
- CyberMed OnDemand3D.
- MEDIT Link.
- DEXIS IS ScanFlow.

## Intended Lifetime

For software the intended lifetime is three years. When used on the supported operating systems, the software will keep performing according to its intended use.

## Performance Requirements and Limitations

It is important to make sure DTX Studio Clinic is used only with approved operating systems. See the [System Requirements](#) in the IFU for more information.



## Clinical Benefits and Undesirable Side Effects

DTX Studio Clinic is a component of dental or craniomaxillofacial treatment. Clinicians can expect the software to support the diagnostic and treatment planning process.

No undesirable side effects identified for DTX Studio Clinic.

## Notice Regarding Serious Incidents

If, during the use of this device or as a result of its use, a serious incident has occurred, please report it to the manufacturer and to your national authority. The contact information for the manufacturer of this device to report a serious incident is as follows:

Nobel Biocare AB

<https://www.nobelbiocare.com/complaint-form>

## Facilities and Training

It is strongly recommended that clinicians, new as well as experienced users of implants, prosthetics and associated software, always go through special training before undertaking a new treatment method.

The lack of knowledge and comprehension of the software may result in the delay in or rescheduling of the diagnosis and planning or the actual treatment.

Nobel Biocare offers a wide range of courses for various levels of knowledge and experience.

For more information, please visit our training website on [tw.dtxstudio.com](http://tw.dtxstudio.com).

## Professional Use

DTX Studio Clinic is for professional use only.

## System Requirements

We advise to check the [System Requirements](#) before starting the installation of the software. To obtain information on minimum and/or recommended requirements, please contact customer support. New versions of the software may require higher requirements for hardware or operating system.

## Installation of the Software

Information on how to install the software, can be found in the [product] Installation Guide. This document can be downloaded from the User Documentation Library ([ifu.dtxstudio.com](http://ifu.dtxstudio.com)). If any issues occur or you need assistance, please contact an authorized technician or customer support ([support@dtxstudio.com](mailto:support@dtxstudio.com)).

## Handling Instructions

For detailed information on how to use the software, please refer to the detailed instructions further on in this IFU.

# Cautions / Precautions and Warnings

## Cautions / Precautions



### Caution(s) / Precaution(s)

Users are advised to obtain training before undertaking a new treatment method or using a new device.

When using a new device or treatment method for the first time, working with a colleague who is experienced with the new device or treatment method may help avoid possible complications.

The user should ensure patient movement is kept to a minimum during the scanning process to reduce the risk of an incorrect scan.

The lack of knowledge and comprehension of the software may result in the delay in or rescheduling of the diagnosis and planning or the actual treatment.

When using the diagnostic and planning tools provided in the software, it is important to pay extra attention to:

- the correctness of made indications (visualizations, measurements, critical structures, imported data, implant planning).
- the correctness of the outcome of the automated functions (the alignment of dental scans, the autofilling of holes, airway segmentation and the dental curve).
- the correctness of the patient ID (after opening a patient record through PMS systems and when creating scan requests).
- the data being up to date and not outdated.

Failure to do so increases the risk of the need for revision of the diagnosis and planning or treatment which, in its turn, may lead to the delay in or rescheduling of the diagnosis and planning or the actual treatment.

It is recommended to take extra care when working with image capturing devices. Incorrect use may result in the delay in or rescheduling of a diagnosis and planning or treatment or in unnecessary extra radiation exposure of the patient.

When extracting a report or patient data from the software, it is important to know that not de-identified patient data can be used for incorrect purposes without the patient's consent.

It is recommended to pay extra attention to the assigned tooth numbering and orientation markings of the viewers. A wrongly assigned tooth number or incorrect patient orientation may lead to incorrect treatment actions performed on the patient.

After updating the software version, it is recommended to verify the critical settings of the open patient cases and/or treatment plan to make sure these settings are correct in the new software version. Incorrect settings may lead to a delay in or the rescheduling of the diagnosis and planning or the actual treatment.

It is recommended to pay extra attention to the created implant plan and the positioning of the implants with respect to each other and other important anatomical structures. Furthermore, always verify that the correct implant plan was selected for exporting and that the exported implant plan or surgical guide contains all necessary information for implant surgery.

Failure to do so increases the risk of the need for revision of the diagnosis and planning or treatment which, in its turn, may lead to the delay in or rescheduling of the diagnosis and planning or the actual treatment.

# Warnings

Following warnings are shown in the software.



**The name in the DICOM file(s) differs from the patient name.**

To reduce the risk of using incorrect data to create the patient model, verify the patient name and check whether patient name and the name in the used DICOM set correspond.

**Cannot add the 3D X-ray to the current diagnosis.**

The current diagnosis contains a 3D X-ray linked to a surgery plan. Create a new diagnosis to import the 3D scan.

**Cannot add the surgery plan to the current diagnosis.**

Select a surgery plan based on the 3D X-ray included in the current diagnosis.

**Exporting images in 8 bit may result in fidelity loss.**

It is recommended to export images in another format to maintain their quality.

**Do not expose patient.**

Device could not be armed. In this state, the device cannot receive X-ray radiation. Retry by reconnecting or restarting the device. If the problem is not resolved, please contact the customer support of your device.

**Preparing your sensor for the next exposure. Please wait.**

Device is currently re-arming. In this state, the device cannot receive X-ray radiation.

**Verify the scan request parameters on the device.**

Before exposing the patient, make sure to check the parameters on the device.

**It is not advised to modify the treatment plan without the use of the actual implant shapes.**

The actual shapes can be downloaded from DTX Studio Go.

**Image has been flipped.**

This warning is displayed when images are manually flipped (horizontally or vertically) by users.

**Image has been cropped.**

This warning is displayed when images are manually cropped by users.

**Automatic intraoral images sorting (MagicAssist) is intended to be used only for adult dentition without gemination, crowding or macrodontia.**

To reduce the risk of using MagicAssist on non-suitable patient images.

**Please be aware that differences in visualization of data (e.g., viewer orientation, object colors) as well as warnings may exist between DTX Studio Clinic and the X-Guide software.**

**Unsupported implants.**

DTX Studio Clinic supports only a selection of implants to be exported to X-Guide™. Unsupported implants will not be included in the X-Guide™ file.

**Implant is too close to an annotated anatomical structure.**

An implant is planned too close to an annotated anatomical structure (e.g., an annotated nerve). Make sure the implant is not impacting the anatomical structure.

**Implants are colliding.**

Some implants are colliding. This can cause issues during surgery. Revision of the treatment plan is recommended.



**The patient records are currently synchronizing. If you close the application now, the most recent changes will not be available on DTX Studio Core.**

A patient record is updated and the synchronization to DTX Studio Core is not yet finished. The most recent changes for the patient will not be available for other users in the practice if synchronization is not finished first.

Furthermore, a number of technical warnings (e.g., inconsistent CT data) are visualized in DTX Studio Clinic.

It is strongly recommended that users follow the instructions and technical notifications within the software to reduce the risk of an inaccurate scan.

Automatic intraoral images sorting (MagicAssist) is intended to be used only for adult dentition without gemination, crowding and macrodontia.

The clinician should not rely solely on the output identified by focus area detection, but should perform a full systematic review and interpretation of the entire patient dataset and other differential diagnostic methods.

Focus area detection is limited to images where detection can be performed.

The automatic detection of focus areas is intended to be used only for adult dentition without gemination, crowding and macrodontia.

# System Requirements

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**Operating System**<sup>1</sup> Windows® 11 or 10 64-bit (Pro and Enterprise edition) on desktop and notebook.  
macOS Sonoma (14), or Ventura (13) (Intel®-based Mac and Apple Silicon Mac with M1 Chip or Higher) on iMac, Mac Mini, Mac Pro, MacBook Pro, MacBook Air devices.<sup>2</sup>

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	Basic setup (2D imaging only)	Recommended setup (2D and 3D imaging with better performance)
<b>CPU</b>	Dual or quad-core	2.8 GHz quad-core (Intel Core i5 or i7)
<b>RAM</b>	4 GB	8 GB or more
<b>Graphics card</b>	Entry-level dedicated add-in card or Intel integrated graphics. 6th generation Intel CPUs with built-in 9th generation Intel graphics or higher are supported. OpenGL® 3.3 support is required <sup>3</sup> .	Dedicated add-in graphics card with optimal 3D support (OpenGL 3.3) and 2 GB VRAM or more. For 4K displays, a minimum of 4 GB VRAM is advised.
<b>Disk space</b>	10 GB free disk space for installation and additional disk space for user-created data. A typical 2D patient dataset in DTX Studio Clinic is about 10 MB.	10 GB free disk space for installation and additional disk space for user-created data. A typical 3D patient dataset in DTX Studio Clinic is about 250 MB.
<b>Network</b>	Broadband Internet connection with 3Mbps upload and 30 Mbps download speed.  To allow DTX Studio Clinic to connect to external services and/or applications it is recommended always to be connected to the Internet. If that is not possible, a connection should be established at least once every 14 days, because otherwise your access to DTX Studio Clinic may be temporarily suspended. When a connection to the Internet is re-established, your access to DTX Studio Clinic will be restored.	
<b>Hard Disk</b>	Only install DTX Studio Clinic onto an APFS, HFS+ or HFSJ non-case-sensitive drive on Mac devices.	
<b>Monitor</b>	Full HD (1920x1080) or higher. Information may appear missing if display scaling is used. For this reason, the equivalent scaled resolution should not be lower than 1920x1080.	
<b>LAN</b>	If DTX Studio Clinic is installed together with DTX Studio Core a local Gigabit Network is recommended.	

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<sup>1</sup> It is strongly recommended to install the latest available update of your Operating System (OS) version, as this will fix known bugs or vulnerabilities, keeping users and computer systems more secure.

<sup>2</sup> The graphics cards of some MacBook Air® and Mac® Mini configurations have restrictions with regard to volume rendering. Consider selecting low resolution volume rendering.

<sup>3</sup> Always use the latest integrated graphics card driver available from Intel for the respective model for best performance. To check the OpenGL® version of your graphics card, go to <http://realtech-vr.com/admin/glview>

# Start

## Starting the Software

1. Open DTX Studio Clinic:
  - On Windows, double-click the shortcut icon  on the desktop.
  - On macOS, click the shortcut icon  in the Finder application folder or the Dock.
2. Select the user.
3. Enter your password.
4. Click [Log in](#).

### Notes

If two-factor authentication was set up on DTX Studio Go, every 30 days you will need to enter a six-digit verification code to log in.


DTX Studio Clinic should always be connected to the Internet. If that is not possible, a connection should be established at least once every 14 days, because otherwise your access to DTX Studio Clinic may be temporarily suspended.

## Closing the Software

Make sure to close all active DTX Studio Clinic and scan module\* instances.

Click [Menu](#) and select [Close application](#).

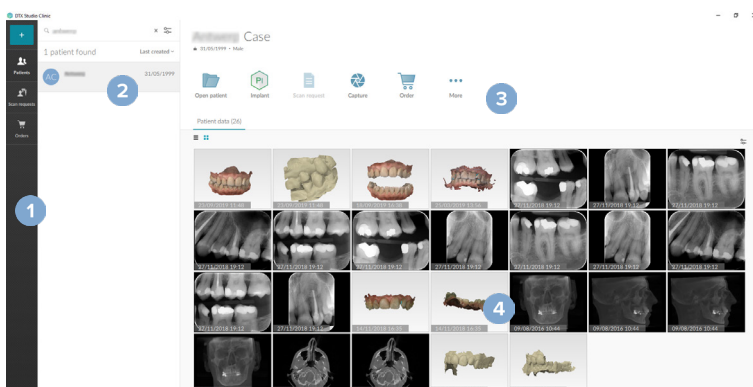
### Note

When you use the close button , the software remains running in the background, to allow data synchronization and a quicker response when reopening DTX Studio™ Home / DTX Studio Clinic.

\* Module might be licensed.



## Exploring DTX Studio Home








DTX Studio Home is the work area where you select and manage patient records, scan requests, orders and general settings.



- 1 Sidebar
- 2 Patient list
- 3 Action pane
- 4 Details pane

## Exploring the Notification Area



The  icon in the notification area grants access to the DTX Studio Home settings () and the following tabs:

- **Notifications:** shows which patient records are being uploaded or synchronized with DTX Studio Core.
- **DTX:** provides quick access to DTX Studio Core () , DTX Studio Go () , Exposure reports\*, QuickPrescribe\*, Scan Center\* or a linked third-party application.
- **Devices:** lists direct folders for importing third-party device images, shows acquisition devices and their statuses (connected via USB or TWAIN  , online  , busy  or offline  ). Click  to access the device settings, folder import settings or to disable unrequired devices.

\* Requires DTX Studio Core.

## Adjusting Settings


### Adjust the Default DTX Studio Home Settings

1. Click **Menu** .
2. Click **Settings** .

### Import or Export Settings

Create or import a settings file containing set preferences. This may be useful when exporting settings to a new installation, sharing settings with other DTX Studio Clinic users, or making a backup.

#### Note

Consult the “Share settings” topic in the help files for an extensive overview: Click  and select **Help**.

In the DTX Studio Home **Settings** sidebar, click **Share settings**.

- To import a settings file, click **Browse** in the **Import** section. Select the settings file and click **Save**. Click **Import** to confirm.
- To export a settings file, click **Browse** in the **Export** section. Change the filename if needed and click **Save**. Click **Export** to confirm.

### Change Language and Date/Time Format

To adjust the preferred language, date format and time format:

1. In the DTX Studio Home **Settings** sidebar, click **General**.
2. Select the date and time format in the **Short date format**, **Long date format** and **Time format** lists.
3. Select the preferred language from the **Application language** list.
4. Click **OK**.
5. Restart DTX Studio Clinic for the changes to take effect.

## Adjust the DICOM Compliance Settings

To ensure compliance with the DIN 6862-2 standard, enter the institution information. When exporting a DICOM file, the provided institution information replaces empty tags.

1. In the DTX Studio Home [Settings](#) sidebar, click [General](#).
2. Select [Use DIN 6862-2 standard](#).
3. Provide the requested institution information.
4. Click [OK](#).

### Note

When importing and exporting a compliant DICOM file, the DIN 6862-2 tags always remain preserved.

## Set the Default Image Filters

To set the default image filters for the DTX Studio Home viewer and DTX Studio Clinic:

1. In the DTX Studio Home [Settings](#) or DTX Studio Clinic preferences sidebar, click [Image settings](#).
2. From the [Default image settings](#) list, select the image type for which you want to set the default filter settings.

### Note

To set custom values for the Gamma filter, select [OPG](#), [Intraoral](#) or [Ceph](#) in the [Default image settings](#) list. Set the [Gamma](#) option to [Manual](#).

3. Select the filters to be used by default for the selected image type and use the appearing slider to set the filter percentage.
4. Click [OK](#).

If you wish to revert to the initial default values, click [Reset](#).


## Disable Auto-Rotation of Intraoral Images

Upon performing an immediate scan, intraoral images are automatically rotated in the correct position. To disable this:

1. In the DTX Studio Home [Settings](#) or DTX Studio Clinic preferences sidebar, click [Image settings](#).
2. Deselect [Auto-rotate intraoral X-rays in DTX Studio capture](#).

## Disable Automatically Set Level and Window Values

Upon importing or acquiring a 2D image, level and window values are automatically set. To disable this:

1. In the DTX Studio Home [Settings](#) or DTX Studio Clinic preferences sidebar, click [Image settings](#).
2. In the top-right drop-down menu, select [OPG](#), [Intraoral](#) or [Ceph](#).
3. Turn the [Auto level window](#) switch off .
4. Enter custom level and window values.
5. Click [OK](#).



## Connect to DTX Studio Core

DTX Studio Core is a software solution to store and retrieve patient media and image data types (2D X-ray, 3D (CB)CT X-ray, dental optical scans, photos) in a structured and centralized way, so that stored data is immediately accessible anywhere in the dental clinic.

- If connected with DTX Studio Core, DTX Studio Clinic can be used in a network environment to acquire images from other supported Ethernet-connected and 3Shape TRIOS® devices.
- A connection with DTX Studio Core needs to be established to work with network devices, scan requests and access radiographic reports.

To establish a connection with DTX Studio Core:

1. In the DTX Studio Home [Settings](#) sidebar, click [DTX Studio Core](#).
2. Enter the [URL](#) (web address) for DTX Studio Core, if it is not filled out yet.
3. Click [Connect](#).
4. A connection request is sent, which can be accepted by the local administrator via the DTX Studio Core UI.

### Important


DTX Studio Clinic 4.4 requires at least DTX Studio Core version 4.0. When upgrading, DTX Studio Core needs to be upgraded before the DTX Studio Clinic clients are upgraded.

## Add an Application to the Action Pane

To add an application shortcut to the action pane:

1. In the DTX Studio Home [Settings](#) sidebar, click [Quick Launch](#).
2. Click [Add](#).
3. Select the executable file and click [Open](#).
4. If needed, change the [Application name](#).
5. Optionally, select [Launch with patient data](#) to launch the third-party application with patient data.
  - Specify which data is exported by adding export parameters to the [Export parameters](#) field.

### Note

Consult the “Quick launch” topic in the help files for an extensive overview of all patient data parameters: Click  and select [Help](#).

6. Click [Browse](#) to choose a location for the exported data.
7. Click [OK](#).

## Enable Practice Management System (PMS) Integration

Integrating DTX Studio Clinic with a PMS (i.e. through VDDS or OPP/OPP web) allows you to create a patient record and acquire an image from within the PMS.

Preview the PMS images in DTX Studio Home or view them directly in DTX Studio Clinic.

1. In the DTX Studio Home [Settings](#) sidebar, click [PMS integration](#).
2. Select [Enable PMS integration](#).

**Note**

Consult the “PMS integration” topic in the help files for detailed information: Click  and select [Help](#).

## Add a TWAIN-supported Device

1. In the DTX Studio Home [Settings](#) sidebar, click [Devices](#).
2. Click [Add](#).
3. Select the TWAIN device.
4. Configure the device settings.
5. Click [Add](#).

## Configure the Direct Folder for Detecting Third-Party Device Images

To add images from third-party camera devices or third-party (CB)CT devices, set up a direct folder in which new images will be detected. Add them with the [Capture](#) action in a patient record or from within DTX Studio Clinic.

1. Prepare your camera device settings:
  - If possible, set up your third-party camera device, (CB)CT device or wireless SD card to store images in a specific folder.
  - If the images are stored on a standard SD card, insert it and take note of the assigned drive letter.
2. In the DTX Studio Home [Settings](#) sidebar, click [Devices](#).
3. Click [Add](#).
4. Select the third-party device and click [Open](#).
5. Click [Browse](#) to select the camera device folder and click [Select folder](#).
6. Enter a specific name.
7. Change the modality and folder priorities, if needed.
8. Click [Add](#).

## Set the Default Export Folders

To specify the default export folder for reports, screenshots, and X-guide files:

1. In the DTX Studio Home [Settings](#) sidebar, click [Export](#).
2. Click [Browse](#) for each export type and select the default folder.



## Enable Autosave When Closing DTX Studio Clinic



1. In the DTX Studio Clinic preferences, select [General](#).
2. Enable [Autosave when closing patient](#).

This setting is enabled by default and eliminates the prompt to save the patient record before closing.


# Learning Resources and Contacting Support

## View all Learning Resources and Keyboard Shortcuts

To go to the help documentation, Instructions for Use and keyboard shortcuts, click  and select [Help](#), [Keyboard shortcuts](#) or [Instructions for Use](#). Alternatively, click  in DTX Studio Clinic.

The training video website and product tour can only be opened in DTX Studio Clinic. Click  or  and select [Training videos](#) or [Product tour](#).








## Contact Customer Support

To reach out to customer support, click  and select [Contact support](#). The support website with all the contact options is opened.

# Overview of the Main Features

To get started with the main features in DTX Studio Home:






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1	Create or link a patient record		Create a patient record (see <a href="#">page 21</a> ).
			Integrate your Practice Management System (see <a href="#">page 17</a> ) and link an existing PMS patient record.
2	Acquire or import data		Acquire scans, initiate multiple scan workflows (see <a href="#">page 29</a> ) or import third-party device images from direct folders (see <a href="#">page 23</a> ).
			Request a scan or multiple scan workflows (see <a href="#">page 29</a> ).
			Drag and drop images into a patient record (see <a href="#">page 23</a> ).
			Import data from within DTX Studio Clinic (see <a href="#">page 23</a> ).
			Import from 3Shape Dental Desktop Software (see <a href="#">page 24</a> ).

---

Once a patient record is created and data are added, continue to:



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Diagnose and plan treatments		Open the <b>Clinic module</b> (see <a href="#">page 34</a> ) to:	
		<ul style="list-style-type: none"><li>– Diagnose images (see <a href="#">page 43</a>)</li><li>– Plan implants and treatments (see <a href="#">page 50</a>)</li><li>– Create a surgical template (see <a href="#">page 50</a>)</li><li>– Share a 3D presentation with your patients (see <a href="#">page 26</a>).</li></ul>	
Share and communicate in DTX Studio Clinic			Optionally, open DTX Studio Implant (see <a href="#">page 53</a> ).
			Export a patient record (see <a href="#">page 22</a> ).
Place orders in DTX Studio Home		Export an implant plan to X-Guide (see <a href="#">page 27</a> ).	
		Share patient records and patient data via DTX Studio Go (see <a href="#">page 25</a> ) or collaborate with partners.	
		Optionally, order a restoration, surgical template or surgery plan (see <a href="#">page 53</a> ).	

---

# Patient Records

## Create a New Patient Record




1. Click .
2. Select [Create patient](#).
3. Enter basic patient details, like patient name, date of birth and gender.
4. Click [Create](#).
5. The patient record is added to the [Patients](#)  list. If DTX Studio Home is connected to DTX Studio Core, the patient record is also added to DTX Studio Core.

## Manage Patient Records

Click [Patients](#)  in the sidebar to open the patient list, if not already open.

### Note


If the workstation is not connected to DTX Studio Core, only locally-stored patient records are shown.

- Patient records opened in DTX Studio Clinic on a local or network-connected workstation are marked with .
- To edit basic patient information, select the patient record in the patient list, click [More ...](#) and select [Edit](#) .
- To delete a selected patient record, click [More ...](#) and select [Delete patient](#) .
- To make sure that a patient record stored in DTX Studio Core is also available offline, click [More ...](#) and enable [Offline available](#).


The notification area ([see page 15](#)) shows which patient records are being uploaded or synchronized.


## Manage Privacy Options

To ensure patient privacy by only showing patient initials in the patient list or completely hiding the patient list:

1. On the patient list, click .
2. Select [Privacy mode](#) to show initials only or [Hide patient list](#) to completely hide it.

### Notes

Click  in the sidebar to re-show the patient list.

Privacy mode remains enabled, even when restarting DTX Studio Clinic. To turn off the privacy mode, re-click  and uncheck [Privacy mode](#).



# Searching and Sorting Patient Records

To find a patient record, sort the patient list or use the search function.

## Sort the Patient List

1. Click the drop-down arrow next to the patient list header.
2. Select [Last created](#), [Last modified](#) or [Last captured](#).
3. Click the drop-down list again to close it.

## Search for a Patient Record

1. On the patient list, click .
2. Select to search for the [Patient name](#), [Date of birth](#) or [Patient ID](#).
3. Type (a part of) the selected search option in the [Find a patient](#) field .
4. While typing text in the search box, the patient list is filtered automatically.

To remove the search criteria, click **x** in the search field.

# Exporting a Patient Record

Export a patient record to manually share the diagnoses and image data with another DTX Studio Clinic user. Additionally, the exported patient record can be viewed in the free version of DTX Studio Clinic, available via DTX Studio Go. [See page 25](#) for more information.

### Note


When extracting a report or patient data from the software, it is important to know that not de-identified patient data may be used for incorrect purposes without the patient's consent.

# Manage Data


## Importing Data

### Import Images from Third-Party Devices



To add images from third-party camera devices or third-party (CB)CT devices, make sure to configure a direct folder in which new images will be detected (see [page 18](#)).

1. Select the patient record in the patient list or open a patient record in DTX Studio Clinic.
2. Click **Capture** .
3. Hover over a direct folder name and click **Select**.
  - For 2D images, select the images you want to import. Click **Finish**.
  - For 3D (CB)CT devices, select the 3D data you want to import. Click **Import**.

### Import Images by Dragging and Dropping

1. Drag and drop a compatible image or file type or a whole folder with mixed data from the file explorer into a DTX Studio Home patient record or into the Clinic module.
2. On the **Select data** window, deselect the images that you do not want to add. Tiles with a green border will be included.
3. If needed, change the modality and the acquisition date, by hovering over the image tile, clicking  and selecting the image modality or editing the acquisition date.
4. Click **Import**.
5. The images are added to the patient record.

### Import Images in the Clinic module

1. In the Clinic module, click  to open the patient menu.
2. Click **Import** , and select one of the following options:

---


#### 3D X-rays

1. Click **Import DICOM file**.
  2. Browse to the location of the DICOM image file and select its folder.
  3. Click **Import**.
  4. The DICOM files are loaded. Use the slider on the right-hand side and scroll through the slices to check the DICOM images.
  5. Click **Done**.
  6. If MagicAssist™ is enabled (on by default), the AI detection process is started to automatically set up the (CB)CT data.
    - Click **Skip MagicAssist** to set up the 3D X-ray manually.
    - The 3D X-ray orientation can be optimized via the patient orientation wizard.
    - The OPG curve action (see [page 46](#)) allows you to adjust the 3D panoramic.
-

### IO scan


1. Select the IO scan model(s) and click **Import**.
2. Select the data you want to import. Tiles with a green border will be included. Adjust the model type or acquisition date, if needed.
3. Click **Import**.


To adjust the orientation of the intraoral scan, click **IO scan orientation** .

To fuse the IO scan with a 3D X-ray, click **Fuse with 3D X-ray** .

### Face scan

1. Select a face scan to import and click **Open**.
2. If needed, adjust the **Brightness** and **Contrast**.
3. Click **Done**.




To align face scans to the 3D X-ray, on the **Face Scan** menu bar, click **Align face scans to 3D X-ray** .

To adjust the position of a face scan, use the smart panel **Adjust**  tab, or select **Edit position** in the right-click menu.

### 2D images.

1. Choose the image(s) and click **Import**.
2. Select the images you want to add. Tiles with a green border will be included.
3. Click **Import**.
  - Upon importing or acquiring a 2D image, level and window values are automatically set. To disable this, see [“Disable Automatically Set Level and Window Values” on page 16](#).
  - By default, MagicAssist autodetection is activated. This can be deactivated in the DTX Studio Home **MagicAssist** settings.

## Import from the Clipboard

1. Copy an image on your computer to add it to the clipboard.
2. In the Clinic module, click  to open the patient menu.
3. Click **Import**  and select **From clipboard**.
4. Inspect the imported image. To change it to another modality, click  and select a different modality.
5. Click **Import**.

## Import from 3Shape Dental Desktop Software

To import a scan that was acquired with a 3Shape TRIOS intraoral scanner, a patient record needs to be created in DTX Studio Home first.

### Note

For more information on how to integrate a 3Shape TRIOS intraoral scanner device, see the DTX Studio Core Quick Guide.

1. Create a new patient record in DTX Studio Home. To make sure that the 3Shape data will merge:
  - Use exactly the same first name, last name and date of birth as those of an existing patient record in 3Shape Dental Desktop.






- Make sure that the patient names are correctly capitalized. Names are case-sensitive.




**Notes**

Previously imported patient records cannot be re-imported. Duplicate the patient record in 3Shape Dental Desktop, and import the duplicated patient record instead.

The DTX Studio Clinic patient record ID is not exchanged with 3Shape. The link is created based on the user confirmation that the first name, last name and date of birth are identical.

2. Select the patient record in the **Patients**  list.
3. Click **More** .
4. Select **Import from 3Shape** .
5. If requested, confirm that the patient record matches the one in the 3Shape Dental Desktop.
6. The data is retrieved and added to the **Patient data** tab on the patient detail panel.





### Import a Surgery Plan

1. Select the patient record in the **Patients**  list.
2. Click **More** .
3. Select **Import surgery plan** .
4. Select the surgery plan and report.
5. Click **Import**.

## Sharing Data


### Share Patient Data via DTX Studio Go

Share patient data with a dental office via [DTX Studio Go](#). If patient data is shared, an additional **GoShare** tab shows an overview.



1. Select the patient record in the **Patients**  list.
2. Click **Collaborate** .
3. Select what you want to share:
  - **DTX Studio Clinic**  to share the entire patient record (DTX Studio Clinic proprietary encrypted format), or
  - **Select data**  to share specific data.

Alternatively, click one of the partner tiles. To manage these partner tiles, click **Edit** and select the connections you want to show on the tiles, and then click **Save**.


4. Choose the preferred options.
5. Click **Continue**.
6. DTX Studio Go opens in the web browser and the created GoShare™ case is shown. Meanwhile, the data is uploaded in the background.

- Add notes to the **Prescription** card's text field.
  - To create a prescription note template, click **Insert quick note** and select **Configure**. Click **Add quick note**. Add a title, write the custom text and click **Save**. Click **Close**.
  - To change the default prescription image or to add annotations, hover over the prescription image and select **Edit prescription**. Click **Change image** to select another image.
  - To edit the patient information, click  in the top-right corner.
  - If needed, provide further information or additional files of the (CB) CT images, clinical pictures, intraoral images, OPG, reports, etc.
7. Click **Start sharing**.
  8. Select the connection with which you want to share patient data. Either by searching or selecting an existing connection in the **Share with a connection** field, or by entering an email address.
  9. Click **Send**. The receiving account is notified by e-mail.
  10. The shared case is added to the **GoShare** overview in the patient record. Click **View case** to open the shared case in DTX Studio Go.

### Share a 3D Presentation


1. In the Clinic module, click  to open the patient menu.
2. Click **Share**  and select **3D presentation**.
3. Choose the preferred options:
  - **Include 3D data (DICOM)**: include the raw DICOM data, if legally required in your country.
  - **Include implant treatment plan**: add more detailed implant information.
  - **Anonymize patient**: do not include patient name, date of birth and patient ID.
4. Click **Share**.
5. The 3D presentation is uploaded to DTX Studio Go and added to a case.
6. Complete the process in DTX Studio Go and provide the requested information.
7. The patient can access the 3D presentation online.
8. The 3D presentation is added to the patient data in the patient record.

### Share 2D Images via Email or Transfer to a Third-party Application


1. In a workspace, right-click an expanded 2D image and select **Copy image**. Alternatively, click  in the top-left viewer corner.
2. Open your email client or third-party application, right-click in the relevant place and select **Paste**.

# Exporting Data

## Export a Patient Record


1. Select the patient record in the patient list.
2. Click [More ...](#).
3. Click [Export patient](#) .
4. Select the diagnosis you want to export, if applicable.
5. Choose the preferred options.
6. Click [Browse](#) to select the export data location and click [Select folder](#).
7. Click [Export](#).

## Export Patient Data

1. Go to the export data action.
  - In DTX Studio Home, click [More ...](#) in the action pane and select [Export data](#).
  - In the Clinic module, click [Export](#)  and select [Data](#).
2. Select the images to export.
3. Click [Browse](#) and go to the desired export location.
4. Click [Select folder](#).
5. Choose the export mode, patient anonymization, metadata and image file format.
6. Click [Export](#).

## Export Implant Plan to X-Guide™

If you have completed an implant plan in DTX Studio Clinic, export it to X-Guide.


1. Select the patient record in the patient list.
2. Click [More ...](#).
3. Click [Export to X-Guide](#) .
4. Select the implant plan you want to export, if applicable.
5. Choose the preferred options.
6. Click [Browse](#) to select the export data location and click [Select folder](#).
7. Click [Export](#).

# Request Scans

To work with scan requests or to initiate a scan workflow with multiple scan protocols (see [page 29](#)), a connection with DTX Studio Core needs to be established (see [page 17](#)).

## Scheduling a Scan

To request a scan for a patient:

1. Select the patient record in the patient list.
2. Click [Scan request](#) .
3. Optionally, initiate a scan workflow with multiple scan protocols (see [page 29](#)).
4. Hover over a device tile and click [Select](#).
5. Fill out the applicable information in the scan request form.


### Note

Depending on the chosen modality or chosen device, the form will be different.


- If needed, change the [Scan date](#) and the [Requesting clinician](#).
  - If the image acquisition device allows multiple modalities, select the required modalities: [3D](#), [CEPH](#) (Cephalogram), [OPG](#) (PAN), [IOXRAY](#) (2D intraoral scan), [IOS](#) (3D intraoral scan) and/or [IOCAM](#) (intraoral photo). If applicable, select an imaging program.
  - On the tooth chart, select the regions you want to scan.
  - Select [Sinus](#) if the sinus needs to be scanned.
  - Select an image acquisition [resolution](#) if applicable.
  - If the selected device is an intraoral device, select a [Template](#), and specify the [Imaging program](#).
  - Add [Request notes](#) for the operator if applicable.
6. Click [Create scan request\(s\)](#). The scan request is added.

## Searching and Sorting Scan Requests

### Sort the Scan Request List


1. In the sidebar, click [Scan requests](#) .
2. Click the drop-down arrow next to the [Scan requests](#) list header.
3. Select to sort by [Scheduled date](#) or [Creation date](#).

### Search for a Scan Request

1. Type (a part of) the scheduled date or the patient name in the [Find a scan request](#) field .
2. While typing text in the search box, the scan requests list is filtered automatically. The search results are sorted on the scheduled date.

To remove the search criteria, click **X** in the search field.

## Managing Scan Requests


To edit, delete or mark scan requests as completed, select the scan request and click . Select the corresponding action.

## Scan Workflows

Use the QuickPrescribe feature to create a scan workflow consisting of multiple scans from different modalities with a particular set of pre-defined scan requests. These scan workflows can then be used on all workstations.

Define a scan workflow in DTX Studio Core first, and apply it during the schedule a scan or capture wizards.

### Define a Scan Workflow

1. Click the  icon in the notification area at the bottom of the screen (on the top of the screen if you use a Mac).
2. Click [QuickPrescribe](#). If you have not set up any scan workflows yet, click [Get started right away](#).
3. Complete the scan workflow configuration in DTX Studio Core.



**Note**

In DTX Studio Core, click [Help](#) in the bottom-left corner for more information.

4. Select a scan workflow from either the scan request or capture wizard.

### Apply a Scan Workflow

Define a scan workflow in DTX Studio Core, and select it during the scan request wizard or capture wizard.

1. Select the patient record in the patient list.
2. Click [Scan request](#)  or [Capture](#) .
3. Click [QuickPrescribe](#).

**Notes**

Type (a part of) the scan workflow in the search field to narrow down the results.

To see all the modalities and parameters that are set, hover over a scan workflow name in the list. Click [More info](#).

4. Hover over a scan workflow name in the list, and click [Create scan requests\(#\)](#). The number indicates the number of scan requests created with the selected scan workflow.
5. On the tooth chart, select the diagnostic region that you want to scan.
6. Click [Create scan requests](#).

# Perform a Scan

Take a scan before, during or after diagnosing the patient — with or without creating a scan request first.


It is strongly recommended that users should follow the instructions and technical notifications within the software to reduce the risk of an inaccurate scan.

## Perform a Scheduled Scan

To perform a scan for a scan request:

1. On the scan request card, click **Start**.
2. Hover over a device tile and click **Select**, if applicable.
3. The scan module or third-party scan application is opened.
4. Follow the instructions.
5. Click **Finish** to end the action, or click **Open Diagnose** to open the patient record in the Clinic module.

## Perform an Immediate Scan

1. Select the patient record in DTX Studio Home or open a patient record in the Clinic module.
2. Click **Capture** .
3. Hover over a device or direct folder tile and click **Select**.

### Notes

Intraoral images are automatically rotated in the correct position. To disable this, [see page 16](#).

Upon importing or acquiring a 2D image, level and window values are automatically set. To disable this, see [page 16](#).

Use multiple sensors with different sensor sizes by plugging them in or out during the capture wizard. The used sensor is shown in the top-right corner\*.

If multiple sensors are plugged in, the + symbol appears\*. All sensors which are connected and active, are ready to acquire the scan. X-ray triggers the image acquisition.

\* For sensors and PSPs directly supported in DTX Studio Clinic. For devices connecting via TWAIN, this functionality will be limited.

## Guided Acquisition with Intraoral Sensors or PSP Devices


To acquire intraoral images with a template:

1. Initiate an immediate scan.
2. Click the **Template** tab and select your preferred template.
3. Select the layout and images that you want to acquire.
4. Click **Start**.
5. Go to the device to perform the scan.
6. On the preview page, inspect the acquired images. Hover over a preview image to see the additional **Rotate**, **Flip**, show or hide **Image filters** and **Capture again** options. Make changes if needed.
7. Click **Finish**.

## Free Acquisition with Intraoral Sensors or PSP Devices

To acquire intraoral images without using a template:

1. Initiate an immediate scan.
2. Select the **Free** tab.
3. Go to the device to perform the scan.







If you have activated MagicAssist autodetection , see the steps below:

- In the bottom-right corner, the MagicAssist autodetection icon is shown.
- In the capture wizard teeth are automatically detected. They are marked in blue. Click on a tooth to remove the MagicAssist label.
- Intraoral images are automatically mapped on FMX charts.
- If needed, manually indicate unidentified images on the tooth chart.

**Note**

By default, MagicAssist autodetection is activated. This can be deactivated in the settings.

4. On the preview page, inspect the acquired image and assign a tooth range if necessary.
  - Click **Clear selection** to remove the indicated teeth on the tooth range.
  - Make changes if needed: hover over a preview image to see the additional **Rotate**, **Flip**, show or hide **Image filters** and **Capture again** options.
  - Rotate or flip the acquired image if necessary.

Action	Icon	Shortcut
Rotate image counterclockwise		Alt +  , or R
Rotate image clockwise		Alt +  , or Shift+R
Flip intraoral image or clinical picture horizontally		U
Flip intraoral image or clinical picture vertically		Shift+U

## Guided Image Acquisition with Intraoral Cameras

To acquire intraoral camera images with a template:

1. Initiate an immediate scan.
2. Stay on the **Guided** tab.
3. For intraoral cameras, select the teeth that you want to acquire.
4. Press the device button if available or click **Capture image**.

## Perform a Scan

- To select another tooth of which intraoral images will be taken, use the **←** or **→** keyboard buttons. Alternatively, click the tooth on the tooth range or click [Previous](#) or [Next](#).

### Note

When only one image per tooth is required, enable [Proceed to the next tooth after capture](#) to automatically continue with the next tooth.

- Click [Finish](#).

## Free Image Acquisition with Intraoral Cameras

To acquire intraoral camera images without using a template:

- Initiate an immediate scan.
- Click the [Free](#) tab.
- Press the device button if available or click [Capture image](#).
- To assign acquired images to a tooth, click an image thumbnail at the bottom and select the corresponding tooth on the tooth range.


### Note

Assign an image to multiple teeth by selecting the image, clicking a tooth and dragging over the other teeth.

- Click [Finish](#).

# Intraoral Scanning

## 3Shape TRIOS® Scanner

- Click [Capture](#) .
- Hover over the 3Shape intraoral scanner tile and click [Select](#).
- Start the scan in the 3Shape Dental Desktop application.

### Note

For more information on how to integrate a 3Shape TRIOS intraoral scanner device, see the DTX Studio Core Quick Guide.


- Complete the scanning process.
- The image is added to the [Patient data](#) tab on the patient detail panel.
  - The finished scan request is marked with a check mark.
  - Click [Open Diagnose](#) to open the patient record in DTX Studio Clinic.



## DEXIS Scanners

The scan module\* allows you to use a supported DEXIS™ intraoral scanner by integrating DEXIS IS ScanFlow with DTX Studio Clinic.

### Acquire Intraoral Scan Data

1. Select the patient record in the patient list.
2. Click **Capture** .
3. Hover over the intraoral scanner tile and click **Select**.
4. Follow the instructions in the scan module\*.
5. The processed data is added to the patient record.
6. If ScanFlow is used and multiple occlusion models were captured, right-click the upper or lower jaw in DTX Studio Clinic and click **Occlusions** to make a selection.

### Reopen a Scan Case

Intraoral scan data that was locally captured can be reopened in the scan module\*.

#### Note

This is only possible on the computer used to acquire the scan data.

To reopen the scan module\* to edit the scan, trim, measure and more:

1. In a patient record, click the IO scan tile.
2. Click **Edit in ScanFlow**.

\* For Windows computers only and on the computer which has been used for acquiring the intraoral scan data, where the folder with RAW scan data is available. An appropriate license type or a subscription to the Plus+ feature DEXIS IS ScanFlow integration is required. The additional DEXIS IS ScanFlow software module has to be installed.


### Resume DEXIS IS ScanFlow Scan

Intraoral scan data that was locally captured, can be reopened in ScanFlow to edit the scan, take additional scans, trim, measure and more:

1. In a patient record, select the IO scan tile of the DEXIS IS device.
2. Click **...** and select **Resume in ScanFlow**.

### Enable the Advanced ScanFlow Features



Enable the advanced ScanFlow features to use the DEXIS IS 3800 in IO CAM\* mode or to import raw DEXIS device data.

1. In DTX Studio Home, click **Menu** .
2. Click **Settings**, and select **DEXIS IS**.
3. Disable **Launch ScanFlow in scan mode**.

\* IO CAM is only available if you have a premium license and the DEXIS IS 3800 device to edit the scan, take additional scans, trim, measure and more.

# Make a Diagnosis or Plan a Treatment

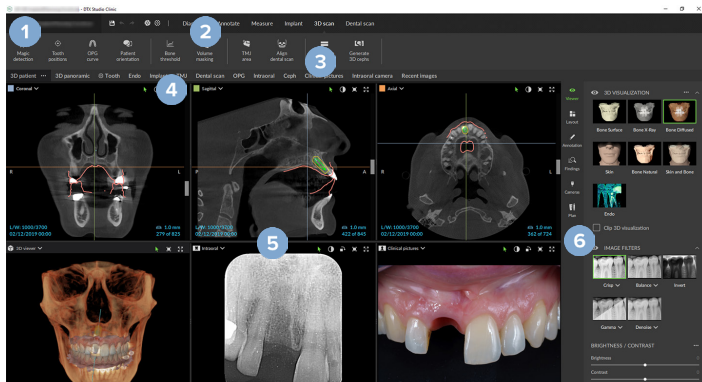
Open a patient record in DTX Studio Clinic to view and inspect the patient data and to add findings and measurements to the patient record.

In DTX Studio Home, select a patient record in the **Patients** list and click **Open patient** . Alternatively, double-click the patient name in the patient list or press [O]. To close the patient record or the Clinic module, click **Close patient** in the patient menu .

The features depend on the DTX Studio Clinic license type:

License Type	Features	Image Acquisition
DTX Studio Clinic <b>Pro</b> or <b>Pro IOS</b>	2D and 3D	2D and 3D
DTX Studio Clinic <b>Select</b> or <b>Starter</b>	2D and selected 3D viewing features	2D only

## Exploring the Clinic Module



- 1 Patient menu
- 2 Menu bar
- 3 Toolbar
- 4 Workspace bar
- 5 Workspace - SmartLayout™
- 6 Smart panel

# Patient Diagnosis Data

To open the patient menu in the Clinic module, click ☰ in the upper-left corner.

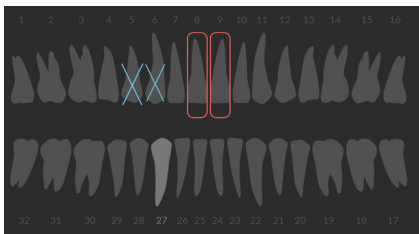
## Manage Diagnoses

The patient menu ☰ allows you to:

- Create a **New** diagnosis.
- **Open** an existing diagnosis.
- **Save** the open diagnosis.

## Tooth Chart

The patient menu’s tooth chart gives an overview of the teeth status in the open diagnosis.



**Note**

If the patient is younger than eight years old, the tooth chart for primary teeth is shown. Please keep in mind to change the teeth manually to go to an adult tooth chart when the patient is growing up.

## Edit the Tooth Chart


To edit the tooth chart, click a tooth on the tooth chart and select one of the following:

Icon	Action	Explanation
	Exchange	Exchange a primary tooth with an adult tooth. This option is available if the child tooth has a corresponding adult tooth. If the tooth is exchanged, all the findings of the primary tooth are deleted and the adult tooth is set to healthy.  <b>Note</b> Child dentition is displayed for patients younger than eight years old.
X	Not present with gap	This tooth is missing and there is a gap on this location.
	Impacted	This tooth will be impacted (often used for wisdom teeth).
	Insert	Insert a tooth, e.g., adult molars in a child dentition.
	Not present without gap	Indicate hypodontia.






## Patient Data

Below the tooth chart, the scans and the images for the opened patient record are shown per data type, and sorted by acquisition date. Any finalized implant plans are shown here as well.

Click a tile to include or exclude the patient data in the opened diagnosis. The images with a green border are included.

 3D X-ray	 Clinical pictures
 OPG (panoramic image)	 Screenshots
 Intraoral images	 Face scans
 Cephalogram	 IO scan

Above the tooth chart, you have options to:

- **Capture** : acquire data directly. Alternatively, click  on the menu bar.
- **Import** : import data to the open diagnosis.
- **Export** : export data or patient diagnosis reports.
- **Share** : share a 3D presentation.

## Set the 3D and IO scan Viewer Background

1. In the **Preferences** window, click **3D viewer**.
2. Select **Solid color**.
3. Select a color in the drop-down menu, or select **Custom** to select any other color.
4. Click **OK**.

## Set the Default Image Zoom Level






To set the default zoom level of shown images:

1. In the **Preferences** window, click **General**.
2. In the **Default image size** list, select the default magnification value.
3. Click **OK**.

## Interact with the Viewers

Right-click anywhere in a viewer to access the general viewer actions. Right-click an object (e.g., Implant, annotation, focus area, ...) to see its specific actions.

Use the mouse to interact with the viewers. To change the default 3D viewer controls to those of DTX Studio Implant or Invivo, go to the [3D viewer](#) preferences menu.








	Action	3D Viewer	Other Viewer Types
	Right-click	Context menu of objects and viewers	Context menu of objects and viewers
	Right-click and drag	Rotate the 3D model	Brightness/Contrast (default) or zoom in and out
	Ctrl + click and drag, or Cmd + click and drag	Pan	Pan
	Shift + click and drag	Zoom in and out	Zoom in and out
	Scroll the wheel button	Zoom in and out	In reslice viewer only: scroll through slices














# Workspaces


























Select a workspace from the workspace bar or, if available, use the corresponding shortcut key (see “Learning Resources and Contacting Support” on [page 19](#)).

**Note**

Only the workspaces for which images or data have been added to the diagnosis are shown.

Workspace	Description	Shortcut key
3D patient	<p>To inspect the loaded model from all sides, use the mouse actions (see <a href="#">page 37</a>) and the keyboard shortcuts. Alternatively, use the standard clinical view icons:</p> <ul style="list-style-type: none"> <li> Frontal</li> <li> Posterior</li> <li> Left lateral</li> <li> Right lateral</li> <li> Cranial</li> <li> Caudal</li> </ul> <p>Press F2 again to go to the IO models workspace (if available).</p>	F2
3D panoramic	The 3D panoramic radiograph is generated based on the loaded 3D X-ray.	F3
IO models	<p>Inspect and compare IO scans. Press F2 again to go to the 3D patient workspace (if available).</p> <p><b>Note</b></p> <p>Only the latest selected IO scan is shown in the different workspaces.</p>	F2
Tooth	<p>Navigate to a specific tooth and compare all 2D and 3D data using the smart panel <b>Layout</b>  tab. Annotate the selected tooth (see <a href="#">page 42</a>).</p> <p>The vertical slider on the perpendicular viewer rotates the slices around the tooth rotation axis. Depending on the situation, the following slice hints indicate the orientation of the reslice:</p> <ul style="list-style-type: none"> <li>– Oral/Buccal (O / B)</li> <li>– Mesial/Distal (M / D)</li> <li>– Left/Right (L / R)</li> </ul> <p>To adjust the rotation axis, see <a href="#">page 43</a>.</p> <p>Press F4 again to go to the endo workspace (if available).</p>	F4

Workspace	Description	Shortcut key
Implant	<p>Plan and inspect implants (see <a href="#">page 50</a>).</p> <ul style="list-style-type: none"> <li>– Click and drag a reslice or scroll through the reslices to navigate to a desired position.</li> <li>– Translate or rotate an implant or anchor pin from any 3D reslice viewer of the 3D (CB)CT data by clicking and dragging the object or tip or shoulder points.</li> </ul> <p>Create a surgical template (see <a href="#">page 51</a>).</p>	F9
Endo	<p>Focus on a specific tooth for endodontic diagnostics and procedures. To display the tooth pulp, click the <b>Endo</b> 3D visualization on the smart panel <b>Viewer</b>  tab.</p> <p><b>Note</b></p> <p>This workspace is available if a 3D X-ray is loaded and when tooth annotations are defined.</p> <ul style="list-style-type: none"> <li>– The 3D viewer is focused on a tooth of interest.</li> <li>– The Tooth cross-sections viewer is a cross-sectional viewer that shows several horizontal tooth cross-sections.</li> <li>– Once the root morphology is defined (see <a href="#">page 45</a>), the root canals are visualized.</li> </ul> <p>Press F4 again to go to the tooth workspace (if available).</p>	F4
TMJ	Inspect the condyle heads and the temporomandibular joint areas.	N/A
Intraoral RX	<p>Inspect the intraoral images on a layout, for inspecting e.g., a Full Mouth X-ray series.</p> <ul style="list-style-type: none"> <li>– Double-click an image to expand it and to use: image filters and SmartLayout (see <a href="#">page 41</a>).</li> <li>– Switch to another image by clicking on a thumbnail in the overview on the smart panel <b>Layout</b>  tab. Alternatively, use the arrows on your keyboard (   ) or on your screen ( ).</li> <li>– To return to the initial layout overview, double-click the image again or press Esc, or click .</li> <li>– Multiple images can be stacked in the same placeholder. Click  to show all the images and click  to compare them.</li> <li>– To select another placeholder arrangement, click  in the top-left workspace corner. Make sure <b>View by date</b> is selected. Then choose <b>All templates</b> , and select one of the template options.</li> </ul>	F6
OPG	View a 2D panoramic radiograph (panorex) or multilayer pan images.	F5

Workspace	Description	Shortcut key
Ceph	View the frontal and/or lateral cephalogram. Use the <b>Generate 3D cephs</b> tool to calculate cephalograms based on the loaded 3D X-ray, or import 2D cephalograms.	F7
Clinical pictures	<p>View the clinical pictures for the patient.</p> <ul style="list-style-type: none"> <li>– Double-click an image to expand it and to use image filters and SmartLayout (see <a href="#">page 41</a>).</li> <li>– Switch to another image by clicking on a thumbnail in the minimap overview on the smart panel <b>Layout</b>  tab. Alternatively, use the arrows on your keyboard (   ) or on your screen ( ).</li> <li>– To return to the initial layout overview, double-click the image again, or press Esc, or click .</li> <li>– Multiple images can be stacked in the same placeholder. Click  to show all the images and click  to compare them.</li> <li>– To select another placeholder arrangement (Orthodontic, Camera or Clinical pictures), click  in the top-left workspace corner. Make sure <b>View by date</b> is selected. Then choose <b>All templates</b> , and select one of the template options.</li> </ul> <p>Double-click the image you want to modify. To flip, rotate, crop or straighten a clinical picture, right-click the picture and select the corresponding action. Alternatively, click  in the top-left workspace corner.</p>	F8
Intraoral pictures	<p>Similar to Clinical pictures, but containing the intraoral camera pictures.</p> <p>When a tooth is selected on the tooth chart and the intraoral camera is used for image acquisition in the tooth workspace, the acquired images are automatically assigned to the selected tooth.</p> <p>The assigned tooth numbers are shown in the clinical pictures workspace.</p> <ul style="list-style-type: none"> <li>– Double-click an image to expand it and to use image filters and SmartLayout (see <a href="#">page 41</a>).</li> <li>– Switch to another image by clicking on a thumbnail in the overview on the smart panel <b>Layout</b>  tab. Alternatively, use the     arrow keys, or the  and  buttons.</li> <li>– To return to the initial layout overview, double-click the image again, or press Esc, or click .</li> <li>– Multiple images can be stacked in the same placeholder. Click  to show all the images and click  to compare them.</li> <li>– To select another placeholder arrangement, click  in the top-left workspace corner. Make sure <b>View by date</b> is selected. Then choose <b>All templates</b> , and select one of the template options.</li> </ul>	N/A




Workspace	Description	Shortcut key
Recent images	The Recent images workspace shows all recently imported or acquired images. By default, the workspace shows the images of the last seven days. To change this, go to the DTX Studio Clinic preferences.	F12
Intraoral camera	Dedicated workspace for intraoral camera acquisition.	F10

### Customize Workspaces

1. In the [Preferences](#) window, click [General](#).
2. In the [Default workspace](#) list, select the workspace to be shown by default when opening the Clinic module. The standard setting is [Most recent data](#), the workspace associated with the most recently acquired or imported image.
3. Optionally, change the number of days in the [Recent images](#) field for images to be displayed in the [Recent images](#) workspace. The default value is 7.
4. Click [OK](#).



### Show all Related Tooth Information with SmartFocus

To activate SmartFocus™ in a supported viewer, press the space bar. Alternatively, click  on the top menu bar.

- Click on a tooth region to go to the tooth workspace and optionally load the data for the specific tooth in the viewers.
- When SmartFocus is used outside the tooth range, the workspace you are working in is centered on the point that was indicated.



### Customize Views with SmartLayout

Customize a workspace by adding or removing viewers via the smart panel [Layout](#)  tab and by changing the viewer proportions.

- To add another viewer to the workspace, click a tile on the smart panel [Layout](#)  tab.
- Re-click the tile to remove the viewer from the workspace.
- To change the proportion of the viewers, drag one of the window splitters.
- To close a viewer, click on the top-left window title. Select [Close viewer](#). Alternatively, press [Q].
- To sort by modality, date or to have selected images appear first, click the [Sort by](#) drop-down menu and select either [Modality](#), [Date](#) or [Selected first](#).
- To save the workspace layout, click  next to the workspace title and select [Save workspace layout](#). This layout is set as default layout for new patient diagnoses. To reset the viewers, click [Reset workspace](#).

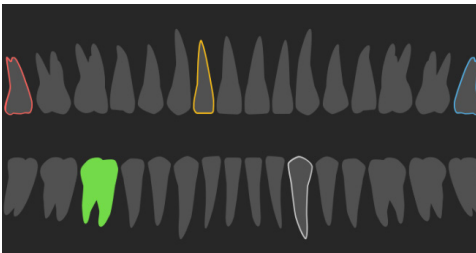
## Mount Images from the Thumbnail Bar

At the bottom of the intraoral RX workspace and the clinical pictures workspaces, a thumbnail bar contains the images that are added to the diagnosis but not shown in the workspace viewer.

- To sort and mount the intraoral images that have not yet been sorted automatically, click **Sort** .
- To manually add an intraoral image to the workspace, drag an image from the thumbnail bar and drop the image on a placeholder.
- If the placeholder already contains an image, the images are stacked. The most recent image is on top. Click  to see all the images in the stack.

## Smart Panel Tooth Chart

In the tooth workspace and endo workspace, a tooth chart is shown above the smart panel tab.



- The active tooth, for which the data are shown in the workspace, is highlighted in green.
- Select another tooth by clicking a tooth on the tooth chart.
- Below the tooth chart, click **<** to go to the previous tooth, or click **>** to go to the next tooth.
- A tooth with at least one finding has a colored outline. The color depends on the treatments status of the finding.

Treatment status	Color	Description
Condition	Gray	The finding is not critical, but may need to be watched to track its evolution over time.
Treatment plan	Red	The finding needs to be treated.
Follow-up	Orange	The finding is discovered at an early stage and should be watched.
Completed	Blue	The treatment for this finding has been completed.

## Adjust the Bone Threshold


To adjust the bone threshold, right-click CB(CT) data in the 3D viewer and select **Bone threshold**. Use the slider to set the preferred threshold.

Alternatively, on the smart panel **Viewer**  tab, use the **3D visualization threshold** slider.

## Adjust Reslices



- Move a reslice by scrolling, clicking and dragging the reslice line. Alternatively, move the gray slider to the right side.
- Rotate a reslice by clicking and dragging one of the reslice endings. Drag the mouse inside the viewer to rotate the image data around the center point of the viewer.
- The reslice position is saved.
- To revert to the default position, right-click in the reslice viewer and select [Reset reslice axis](#).

## Clip the 3D Volume

On the smart panel [Viewer](#)  tab of the 3D patient, Tooth and 3D Inspection workspace, select [Clip 3D visualization](#), to hide a part of the 3D volume and inspect certain areas of the volume.

## Use Dental Intraoral Cameras in Workspaces

Acquire intraoral images with a USB dental intraoral camera directly in the intraoral camera workspace or from within another workspace:

1. Click the [Intraoral camera](#) workspace tab or in any workspace, click the smart panel [Cameras](#)  tab.
2. Click a camera device tile, if needed.
3. Press the device button to acquire the image. Alternatively, click [Capture image](#)  at the bottom.

# Analyzing Patient Images

The toolbar provides you with tools to diagnose, measure, plan treatments and edit the scan data.

Not all the tools will be available in all the workspaces. Unavailable tools are grayed out.



### Warning

Measurement accuracy depends on the image data, the used scanner hardware, its calibration and acquisition settings. The measurement cannot be more precise than the resolution of the image. DTX Studio Clinic software reports the value, rounded to one digit after the decimal point, based on user-picked points.

Click one of the toolbar tabs to go to the underlying tools.

## Diagnose Tools



Set the slice thickness of a 3D reslice viewer. Click on the 3D reslice viewer and drag horizontally to set the X-ray thickness. Right-click to finish.

### Note

To set a default slice thickness, go to the [Image settings](#) tab in the DTX Studio Home settings or DTX Studio Clinic preferences. In the top-right drop-down menu, select [3D Reslices](#), [3D panoramic](#) or [Tooth](#). Select a preferred thickness in the [Slice thickness](#) drop-down menu.

## Diagnose Tools

---


 Drag on a viewer to adjust the brightness and contrast:

- Horizontally: to change the contrast.
- Vertically: to change the brightness.

**Note**

When the brightness and contrast tool is used with grayscale images, the level and window values are updated accordingly.



---

 Magnify a certain area of an image (default setting) or compare applied filters to the original image. Use the minus and plus keys (or Shift + Plus key when using macOS) to adjust the magnification level. To change the default settings, go to the DTX Studio Clinic preferences.

---

 Inspect the underlying reslice when clicking on a 3D model.


- The reslice is shown in the overlay slice explorer window.
  - Active image filters and the slice thickness are applied to the slice explorer view as well.
  - Scroll to go through all the reslices.
  - While inspecting the underlying reslice, the 3D model remains rotatable.
- 

 Capture a screenshot. It is added to the clinical pictures workspace, the smart panel **Layout**  tab and the patient data. The captured screenshot can be added to a report (see [page 42](#)).


---


 Add a finding to the smart panel **Findings**  tab.


---

 Analyze the airway. Indicate landmarks to create a box surrounding the region of interest. Click **Done**. The airway volume and the most narrowing area is visualized in the 3D patient workspace.

---


 Indicate a nerve canal. Click the first anchor point. Then click every next anchor point. Right-click to finish.

- Adjust the nerve canal annotation by moving the anchor points on the viewer.
  - All the anchor points will appear as one line on the smart panel **Visibility**  tab.
- 

 Draw a custom reslice line in any reslice viewer of the 3D patient workspace (coronal/sagittal/axial) to create a custom reslice to inspect the (CB)CT data in detail. For example to mark and inspect the root canals and to make annotations.

- Move the custom reslice by clicking and dragging the reslice line.
  - Rotate the custom reslice by clicking and dragging one of the reslice endings.
-

## Diagnose Tools


 Define the **root morphology** by indicating reference points in the apical section of each root canal.

1. Scroll through the slices to find an optimal position.


**Note**

If needed, re-indicate the tooth center in the **Horizontal** viewer by clicking and dragging the center.

2. Click a position in one of the viewers.
3. The root canal visualization is immediately shown in the **Root canal** viewer.
4. Click **Add point** to add a new reference point, if needed.
5. Click **Done**.



 Detect focus areas on 2D intraoral X-ray images that could potentially contain dental findings (see [page 48](#)).

 Ignore the detected focus areas.

 After having ignored the focus areas, make them appear again.

## Annotate Tools

 Add text to an image


 Draw segmented lines with the pen. All the lines will appear as one annotation on the smart panel **Visibility**  tab.

 Draw free-form lines with the pencil.

 Draw a circle.

 Draw an arrow.

 Add upper / lower / vertical jaw reference plane.


 Select the line thickness for an annotation.

## Measure Tools

 Measure the HU value of a point. Click a point in the scene to measure the HU or the gray value.

## Measure Tools



Measure a linear distance. Click the two points between which you want to measure the distance. If the image has not yet been calibrated, enter a Reference value. The calibration measurement will be shown in the scene and the calibration object is added on the smart panel **Visibility**  tab.

If the tip or the shoulder point of an implant is clicked, the measurement will be linked to that implant. When moving the implant, the linked measurement is updated.

The measurement (and its accuracy) is shown.



Measure segments. Click the first point. Then click every next point. Right-click to finish.

If the tip or the shoulder point of an implant is clicked, the measurement will be linked to that implant. When moving the implant, the linked measurement is updated.



Measure an area.



Measure an angle. Click three points.

## 3D X-ray Tools



Automatically set up the (CB)CT data and mandibular nerve annotation with the AI-powered MagicAssist algorithm. All automatically detected points can be manually adjusted.

3D X-rays containing automatically detected attributes are indicated by an 'Auto' label in the bottom-right corner.



Adjust the tooth positions. On the tooth chart, select the tooth that you want to calibrate. Drag the tooth indication to its correct position on the axial reslice. Adjust the axis of the tooth on the perpendicular reslice.





Adjust the OPG curve. Indicate the points and teeth as requested. When the teeth are not clearly visible, scroll or use the gray slider at the right side to adjust the position of the axial reslice to a plane showing the tooth setup (approximately converging with the occlusal plane).

If needed, adjust the curve:

- Click and drag individual control points to adjust the shape of the curve.
- Click on the curve to add a new control point.
- Click and drag the surrounding area to move the complete curve.



Edit the orientation of the patient model. The 3D patient model can be orientated in the preferred position by translating and rotating the model in the 3D viewers.

1. Click the pan icon  or the rotation icon  or press the [Tab] key to switch between rotation and translation mode. The selected mode appears in green.
2. Drag the model until it is correctly aligned with the reference lines.
3. Click **Done**.

## 3D X-ray Tools



Clean up the patient model by cutting out redundant parts. Click a point in the scene to start drawing around the section that should be removed. Right-click to confirm.

### Note

To restore the original patient model, click **...** next to **3D visualization** on the smart panel **Visibility**  tab. Select **Reset 3D model**.



Define the TMJ area. Indicate the condyle head position as shown in the wizard. Click **Done**. The TMJ workspace is opened, to compare the left and the right condyle head position and examine the temporomandibular joint area.



Generate an OPG. The panoramic (reslice) view is added to the patient data as a 2D image. The generated image is opened in the **3D panoramic** workspace.



Generate 3D cephalograms based on the imported 3D X-ray.

## IO Scan Tools



Automatically set up IO scans.



Adjust the orientation of the intraoral scan.





Align or realign an IO scan on the 3D X-ray.



Virtually create or extract teeth: Missing teeth are selected by default. To simultaneously extract and create a tooth, click an existing tooth position. To just extract a tooth or create a virtual tooth, right-click a tooth to select the **Create tooth** or **Extract tooth** action. Click **Next** and verify the end-result. Click **Finish**.

### Note

To show the original IO scan, click the smart panel **Visibility**  tab. Select the altered IO scan, click **...** and select **Original scan model**. Alternatively, right-click the intraoral scan model in the workspace viewer, select **IO scans** and select **Original scan model**.

To adjust the position of a virtual tooth, use the smart panel **Adjust**  tab, or select **Edit position** in the right-click menu. Select **Lock position during recalculation** to keep the virtual tooth on this position when you click **Recalculate virtual teeth** and run MagicAssist again.




Fill the holes\* of all jaw scans and diagnostic scans currently visible in the IO models workspace. Choose either to fill small or all holes. Click **Fill holes**. The added texture is indicated in blue.

\* For Windows only.



Compare IO scans to follow up on gingival recession, tooth wear and other differences. Select an IO scan to compare with the reference scan. Click **Finish**.


By default, a colored distance map is applied. On the smart panel **Viewer**  tab, select **Overlay** to show the two scans aligned with each other. Disable the comparison by turning the **Scan comparison** switch off.




## Face Scan Tools



Align face scans to the 3D X-ray.

## Add Diagnostic Findings

The smart panel **Findings**  tab allows you to note dental pathologies, jaw problems or other diagnostic findings on tooth level.

- To add a predefined diagnostic finding to the tooth, on the **Diagnose** tools menu, click **Finding** . Alternatively, on the smart panel **Findings**  tab, click **Add finding**. Optionally, include a screenshot by clicking **Screenshots**  on a finding.
- To remove the finding, hover over or select the finding, click **...** and select **Delete**.
- To add a custom diagnostic finding, enter a custom name in the search field and press Enter or click **Add**.
- Click the drop-down menu to assign a status, if needed.

### Notes

- In the tooth workspace, the status is visually indicated on the tooth chart as well.
- If the finding is added in the tooth workspace, the finding is added to the specific tooth.
- If the finding is created in another workspace, click the tooth number placeholder and type the tooth number to assign the finding to a specific tooth.

## Focus Area Detection

This functionality may not be regulatory cleared, released or licensed for sale in all markets.


DTX Studio Clinic allows to automatically detect focus areas on 2D intraoral X-ray images (IOR). The IOR capturing devices can either be digital sensors or analogue PSP plates.


Focus Area Detection is an AI-powered algorithm (artificial intelligence) using a convolutional neural network for image segmentation to locate regions of interest where a dental finding or capturing artifact might exist.

The following focus detection areas are supported:

- For dental findings: caries, apical lesion, root canal defect, marginal defect, bone loss and calculus.
- For capturing artifacts: overlap and scratches.

## Starting Focus Area Detection

When intraoral images are captured or imported, Focus Area Detection is run automatically, to check whether the images contain areas that need special attention. You can see this by the blue line running over the images. If disabled in the MagicAssist settings, click **Focus areas**  on the **Diagnose** menu bar.

- If an image shows potential dental findings, a blue **Focus Area Detection** icon  is shown in the top-left corner of the image combined with a number, indicating the amount of dental findings.
- When an image does not contain the blue icon, either no possible dental findings have been detected or the image has not been checked. This does not mean that there are no potential dental findings. Caution should be exercised when using this feature.

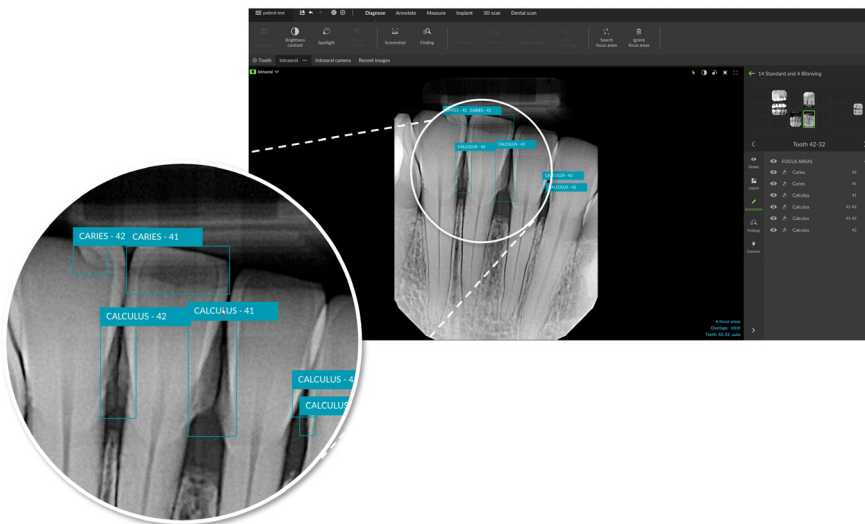




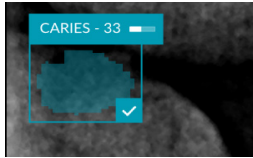
- If an image shows possible overlap of multiple teeth and/or scratches, a notification is displayed in the bottom-right corner. Click View to check the notification.


## Managing Focus Areas Detections


1. When the focus area detection is completed, double-lick an image with a focus area detection icon.
  - Focus areas are visualized on the intraoral images using focus area annotations. These annotations show the tooth number (if known), and the type of potential dental finding detected.



- An indication of the whereabouts of the potential dental findings is visualized when hovering over the focus area.
2. After your analysis, choose either to accept the potential dental finding by left-clicking the focus area or reject it by right-clicking the focus area.











3. If you choose to accept it, the focus area changes to yellow and is turned into a diagnostic finding automatically. It will be added to the smart panel **Findings**  tab.




The focus areas are listed on the smart panel **Visibility**  tab as well and can be shown or hidden using the visibility icons of the smart panel 's visibility functionality.

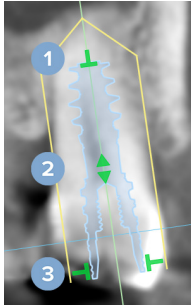
## Planning Implants and Treatments

The **Plan** toolbar provides you with tools to plan treatments. These tools can be used in any workspace that contains (CB)CT data or an IO scan that is aligned to the 3D X-ray.

	<b>Add implant</b>	Place an implant.
	<b>Add anchor pin</b>	Add an anchor pin.
	<b>Parallelize all implants</b>	Place all the implants of the same jaw parallel to each other.
	<b>New implant plan</b>	Add another implant plan. Once completed, switch between implant plans via the smart panel <b>Implant plan</b>  tab.
	<b>Surgical template</b>	Create a surgical template. Define the surgical template range and set the correct sleeve type. Click <b>Done</b> .
	<b>Export plan for surgery</b>	Export a finalized implant plan for surgery.
	<b>Install implant products</b>	Manage which implants can be placed.


### Place an Implant

1. On the menu bar, click **Plan**.
2. Click **Add Implant** .
3. Indicate the implant's shoulder and tip points.
4. To change the implant's position, hover over the different regions. The mouse cursor will change to show translation  or rotation . Click and drag to apply the action.






- 1 Adjust the length.
- 2 Move sideways or upwards.
- 3 Adjust the diameter.

**Note**

Make sure to update a prepared surgical template after modifying an implant or anchor pin. Hover over a tile on the smart panel **Implant plan**  tab and select **Update**.

### Add an Anchor Pin

1. On the menu bar, click **Plan**.
2. Click **Add anchor pin** .
3. Indicate the anchor pin's shoulder and tip point.
4. When hovering over the different regions, the mouse cursor will change to show translation  or rotation . Click and drag to apply the action.

### Place Implants in Parallel


To place an implant parallel to a reference implant:

1. Right-click the implant to be placed in parallel.
2. Select **Parallel to**.
3. Select the reference implant.

**Note**

It is the abutment or the implant platform that is placed in parallel.

To place all the implants in the same jaw in parallel:

1. On the menu bar, click **Plan**.
2. Click **Parallelize all implants** .


### Lock Implants or Anchor Pins

To lock an implant or anchor pin, right-click the object in one of the viewers and select the corresponding option.

### Creating a Surgical Template


Once an implant plan has been finalized, the surgical template can be prepared.

## Prepare the Surgical Template


1. Go to the [Implant](#) workspace.
2. On the [Plan](#) tools menu, click [Surgical template](#) .
3. Define the surgical template range, set the correct sleeve type, and click [Next](#).
4. Add inspections windows, add a label, set the expert settings, and click [Finish](#).
5. The low-resolution surgical template is added to the scene in blue.


## Finalize the Surgical Template

When the design of the surgical template is ready, generate the high-resolution surgical template for printing.

1. When finishing the previous wizard, a tooltip will appear. Click [Generate](#).  
Alternatively, on the smart panel [Implant plan](#)  tab, hover over the surgical template, and select [Generate template](#).
2. The system does a license check to see if the correct license or a subscription to the Plus+ feature is present that allows you to create templates.
3. Choose the preferred settings, and click [Next](#).
4. Read the agreement carefully. To accept, click [I have read and agree all of the above](#).
5. Click [Generate](#).
6. An order overview is shown. Click [Place order](#).
7. The surgical template and instruction documents are added to the patient record.

### Note


In DTX Studio Home the surgical template can be sent to SprintRay via the [Collaborate](#)  action.

8. To recalculate the surgical template with other printer settings, click  and select [Regenerate template](#). This recalculation is free of charge.

# Reports

## Create Reports

To create a report containing findings or as template for patient-related letters:

1. In the Clinic module, open the patient menu.
2. Click [Export](#)  and select [Report](#).
3. Select a report template.
4. Click [Export report](#).
5. The report is exported in an editable .odt format and opened in the default text editor, e.g., Microsoft Office, LibreOffice, OpenOffice Writer.
6. Make any changes, if needed.
7. Save the report.

## Add Custom Practice Logos

By default, the DTX Studio Clinic icon is added to a report header. To add a custom logo:

1. In the DTX Studio Home [Settings](#) sidebar, click [General](#).
2. Click [Browse](#).
3. Select a new logo.
4. Click [Open](#).
5. Click [OK](#).

# Opening DTX Studio Implant

## Connect DTX Studio Clinic and DTX Studio Implant


1. In the DTX Studio Home [Settings](#) sidebar, click [DTX Studio Implant](#).
2. Click [Browse](#) to go to the location on the computer where DTX Studio Implant is installed.

### Note

Set the location for patient data in case you need to add patient data to the patient record in DTX Studio Implant manually; that is if a patient record already exists in DTX Studio Implant or if intraoral scans are exported to DTX Studio Implant but are not aligned with the 3D X-ray.

3. Click [OK](#).





## Launch DTX Studio Implant

1. Select the patient record in the patient list.  
**Note**  
At least one 3D X-ray must be available for this patient.
2. Click [Implant](#) .
3. Select [Open existing patient](#) or [Export to new patient](#).
4. If there is more than one 3D X-ray, select the appropriate tile.
5. Click [Export](#).
6. A success message appears. Click [OK](#).
7. The patient record is created and/or opened in DTX Studio Implant.

# Orders and Partner Collaborations

## Order a Surgery Plan, Surgical Template or Restoration

1. Select the patient record in the patient list.
2. Click [Collaborate](#) .

3. Hover over [Surgery plan](#) , [Surgical template](#)  or [Restoration](#) .
4. Click [Select](#).
5. Select the patient data to send to the lab or the clinician.
6. Click [Continue](#).
7. A draft order is created on DTX Studio Go. Add the missing data and send the order to the connected lab or clinician.
8. Click [Orders](#)  in the sidebar to view all your orders.


**Note**

Please note that some products described in the Instructions for Use may not be regulatory cleared, released or licensed for sale in all markets.

### Set up a Connection with a Partner


Some third-party partners can provide services directly integrated into DTX Studio Clinic. The order can be created in DTX Studio Clinic and submitted to the partner's framework.

If service providers are available in your region, start by connecting your partner account in DTX Studio Go.

1. Click [Collaborate](#) .
2. Hover over the partner name and select [Set up](#).
3. Click [Continue](#).
4. Follow the instructions in DTX Studio Go to complete the connection.

### Order Directly from a Partner

Once the partner account is connected in DTX Studio Go, you can use their services.

1. Click [Collaborate](#) .
2. Hover over the partner name and click [Select](#).
3. Select the patient data that you want to send.
4. Click [Continue](#).
5. The files are uploaded.
6. Continue the order process on the partner website.
7. Once submitted, the order is added to the [Orders](#) overview in the patient record.

### View Partner Case or add new Data

1. Select the patient record in the patient list.
2. Click the [Orders](#) tab.
  - Click [View case](#) to open the case on the partner website.
  - Click [Add new data](#) to submit new data to the case.



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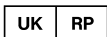
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