VistaSoft – the heart of your digital practice

Simple, intuitive and tailored to your needs

DÜRR DENTAL

THE BEST, BY DESIGN

Self-explanatory and efficient

The imaging software for digital workflows in dental practices

From acquiring and editing digital X-ray and camera images to sharing images via the cloud, planning implants and drill templates – VistaSoft brings together all of the different threads of dental imaging. The latest generation of highly efficient imaging software offers a range of additional modules and maps the complete digital workflow of your dental practice. Thanks to the one-click principle, VistaSoft is quick to learn and intuitive to operate. The design has also been optimised for professional diagnostics so that it offers you the best-possible support. VistaSoft offers network capability and works with all current digital X-ray systems and intraoral cameras from Dürr Dental. You can also integrate third-party X-ray units via a TWAIN interface. The package comes with a full 3D X-ray licence, which allows you to view 3D image data and perform diagnoses – with no need for a dedicated CBCT device. Numerous interfaces are provided for effortless connection to third-party software solutions to allow seamless integration in your existing practice management system.

This is what counts:

- **One-click principle** – all of the main functions are only a single mouse click away
- **Self-explanatory icons** for intuitive operation
- **Ergonomic design** with simple and well thought-out workflows for efficient operation
- **Modern saving concept** – changes are saved automatically

All important features are just one click away

The **one-click principle** makes VistaSoft extremely ergonomic and efficient to use. With just a single click of the mouse, you can get connected devices ready for image acquisition, scan in an image plate, open an image, perform image processing and much, much more. This not only accelerates the workflow with VistaSoft, but also increases reliability. This will make your work faster than ever before.

Modern saving concept

Self-explanatory icons make for even more intuitive handling. In addition, changes to settings are saved automatically, along with parameters and the image status. This makes everything even faster than before and helps to prevent mistakes being made.

Easy image comparisons on the light table

Look at video, X-ray and 3D images on a shared digital light table. This will enable you to consult a wide range of different X-ray images for diagnostics. Similarly, all notes created in a layer of a CBCT image can be located with the aid of a list, with no time-consuming searches. One click switches the view to the corresponding layer. The integrated visualisation of implants will help you when communicating with your patients.

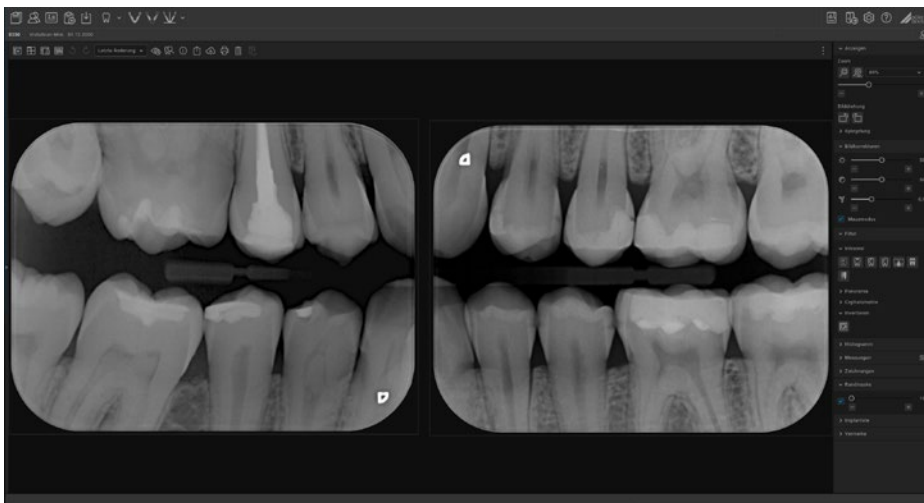## Mobile Connect: Perfect patient communication via iPad

The Imaging App allows you to send scanning tasks or X-ray tasks directly from an iPad to VistaSoft . In addition, you can also view X-ray and camera images together with your patients on the iPad, which helps patients understand the treatment they are receiving.

The modules of VistaSoft at a glance:

- **VistaSoft Basic:** Viewing images
- **VistaSoft X-ray:** Acquisition and editing of X-ray images
- **VistaSoft Video:** VistaCam functions
- **VistaSoft Implant & Guide:** Implant and drill template planning
- **VistaSoft Cloud:** Secure sharing of image data
- **VistaSoft MobileConnect:** iPad connectivity
- **VistaSoft Inspect:** Inspection tool for acceptance tests and consistency checks, as well as for monitor tests and image plate quality checks
- **VistaSoft DICOM Starter:** Connection to DICOM systems
- **VistaSoft 3D:** Viewing and acquiring CBCT images
- **VistaSoft Trace:** Software module for Ceph analysis
- **SICAT Implant:** Implant planning together with SICAT

VistaSoft AI included

With the VistaSoft package you will gain access to powerful AI features that will not only make your day-to-day work in the practice noticeably more effective, but will also significantly increase the reliability of diagnostic work ahead of complicated procedures.
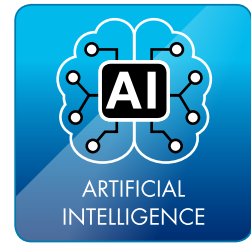

Automatic image rotation

The imaging software uses an algorithm based on artificial intelligence to check the orientation of intraoral X-ray images using anatomical features shown and corrects the rotation of the image automatically if needed. This will save you valuable time.

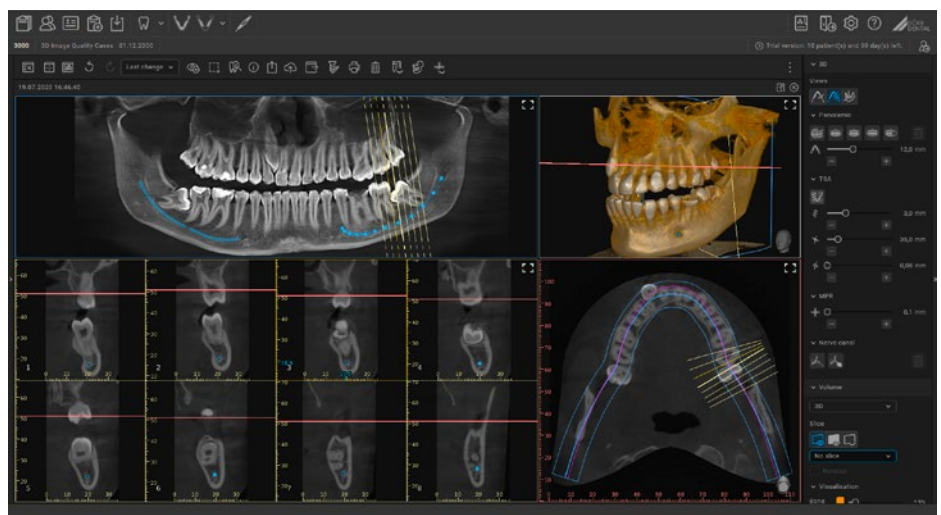## Automatic checking of image plate quality

In conjunction with VistaScan IQ image plates, Vistasoft AI enables automated checking of the quality of image plates. Here, the AI-assisted system automatically checks every single X-ray image to see if the image quality is deteriorating. In the process, the system assesses the condition of the image plate and automatically recommends its replacement if necessary to ensure that image quality remains consistently high at all times.
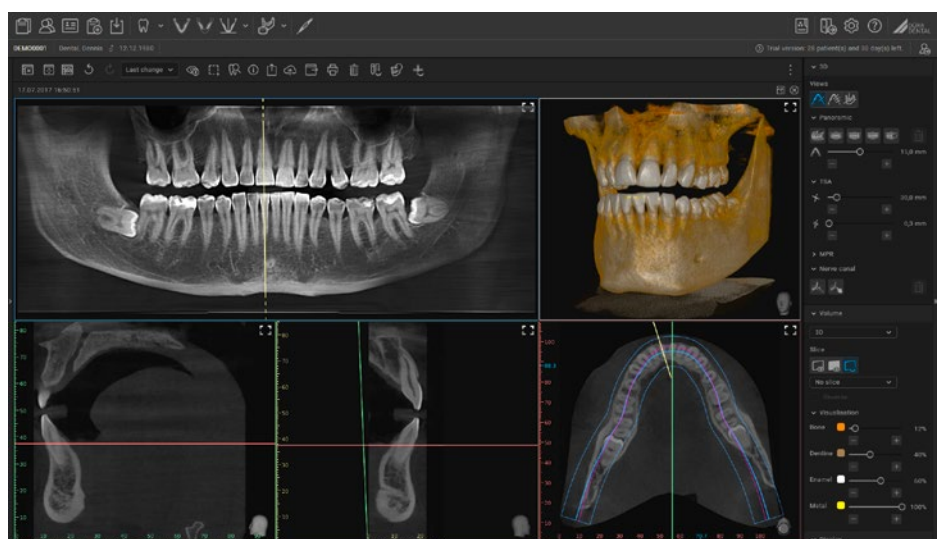
AI-assisted marking of the nerve canal

The AI-assisted mandibular canal detection system automatically calculates the position of the nerve canal in three-dimensional X-ray images. On this basis the diagnostician merely needs to check the proposed position.
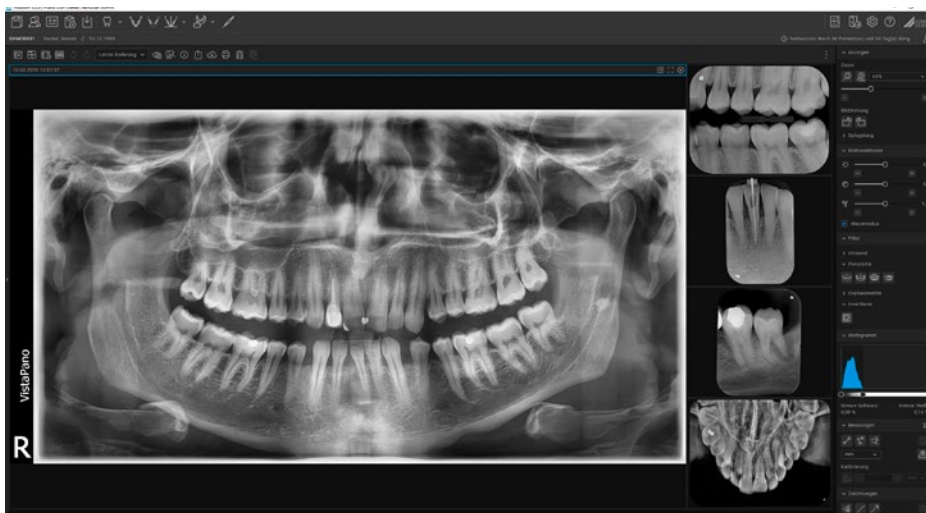

Panoramic display – AI-assisted

With 3D images, VistaSoft uses intelligent algorithms to adapt the calculated panoramic view for the anatomy of the patient. This displays a significantly improved OPG image, which shows the anatomy of the patient much more clearly.
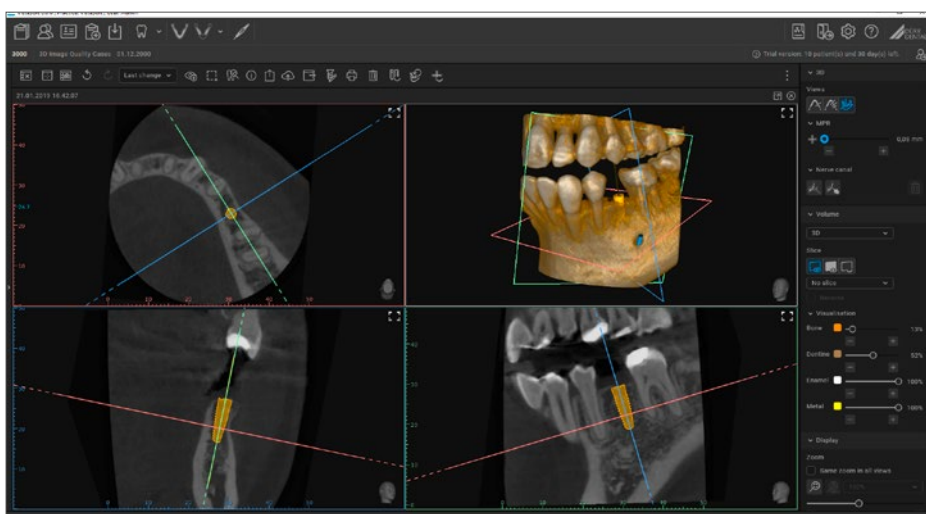
Viewing and editing X-ray images with VistaSoft

VistaSoft X-ray

The VistaSoft X-ray module is compatible with all current X-ray and scanner systems from Dürr Dental. The software enables fast and reliable use of digital X-ray systems with highest image quality. Use the Endo, Caries and Perio digital filter functions as diagnostic aids to adjust the contrast and sharpness of your radiographs so that the images reveal more diagnostic information.

VistaSoft 3D

VistaSoft 3D offers different views for your diagnosis of CBCT images: pano views, transversal layer images (TSA) and multiplanar reconstruction (MPR). These can be rotated and tilted for perfect alignment. In the process, a "navigation head" always displays the current position so that orientation is much easier. The rendered OPG view provides you with even more assistance when navigating the 3D volume. The panorama curve required for this is automatically positioned by VistaSoft .
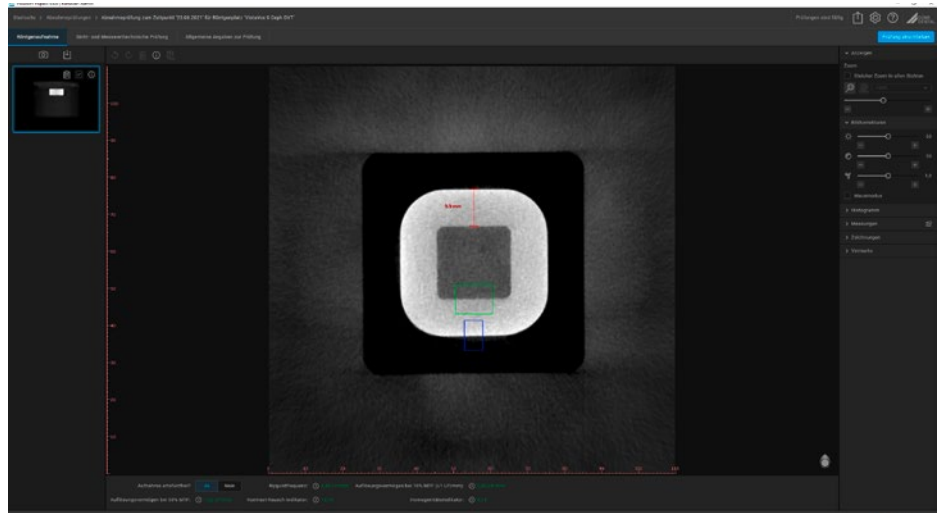
VistaSoft Video

Start, view, edit: with VistaSoft you can easily control all current camera systems from Dürr Dental. Here, alongside intraoral, extraoral and macro X-ray images, you also have access to additional functions to help you with your diagnosis. The Proof function can be used for reliable detection of caries and plaque. The Proxi function will help you with the diagnosis of approximal caries.

VistaSoft Inspect

Safety first. This is why VistaSoft Inspect allows you to perform monitor tests, acceptance tests and consistency checks very easily. In addition, VistaSoft Inspect also offers the opportunity to continuously check the condition of your image plates with the aid of the image plate quality check*. This will help you to ensure that the exceptional quality of the Dürr Dental systems is continuously monitored and maintained.
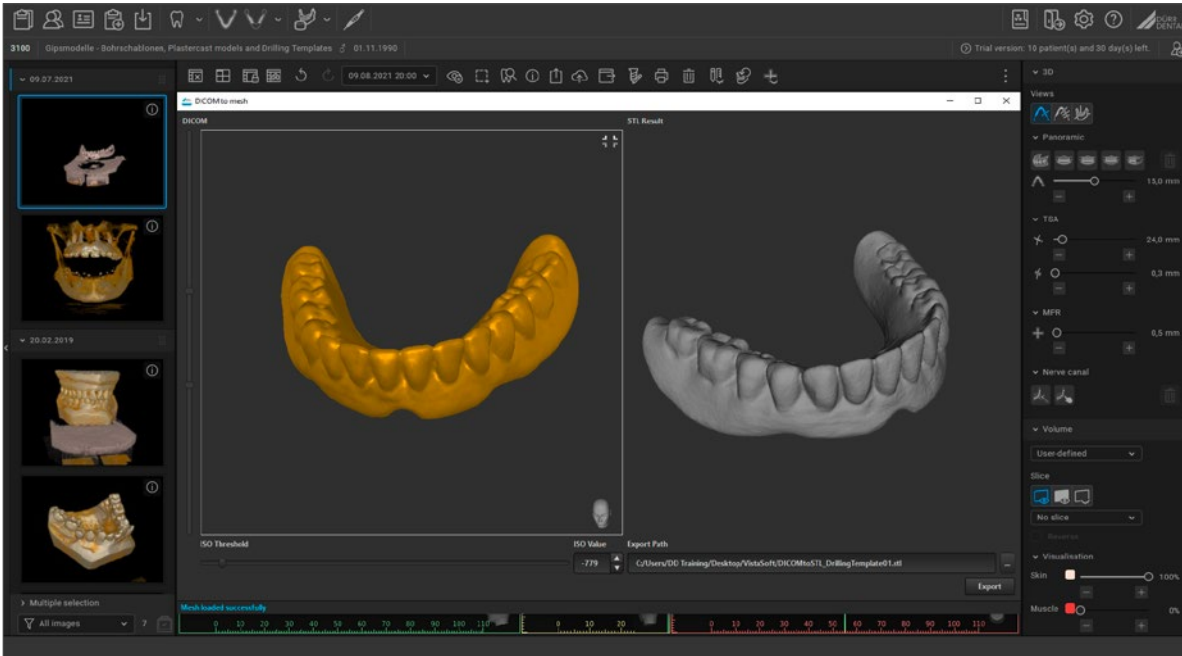
VistaSoft DICOM

Diagnostic exchange, interdisciplinary assessment of findings, co-treatment by colleagues: with the DICOM interface from VistaSoft you can very easily receive patient data from DICOM systems and send images to DICOM systems. Here, VistaSoft supports DICOM Modality Worklist for receiving order data and DICOM Storage for sending images.
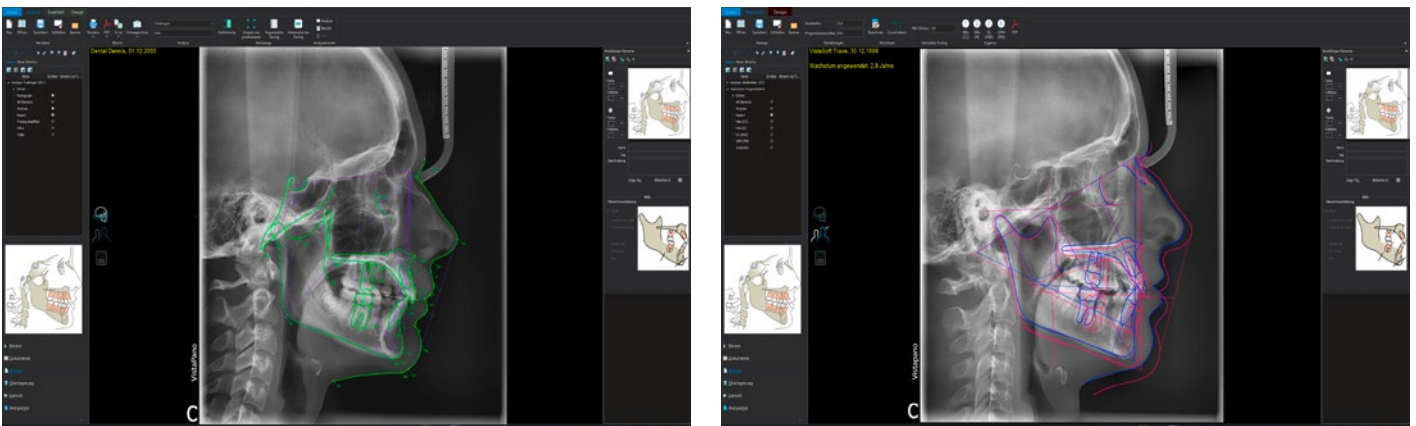
*The image plate check is compatible with the latest Dürr Dental image plate scanners.

Digitisation of plaster casts and drill templates

Plaster casts and drill templates can be digitised with the aid of the optional model holder for VistaVox S. The VistaSoft tool "DICOM-to-STL" then converts the data to open source STL files for use in VistaSoft Implant & Guide for planning purposes or so that the data can be printed out with the aid of a 3D printer. Both the scans and the STL files are saved together with the relevant patient to ensure that you have access to all image data at all times.

VistaSoft Trace

Thanks to innovative and extensive artificial intelligence, cephalometric analyses can be carried out within a few seconds with VistaSoft Trace. This user-friendly software add-on identifies reference points and soft tissue silhouettes automatically and plots them on the X-ray image. VistaSoft Trace also enables the images from the various stages of treatment to be overlaid for tracking and monitoring from start to finish. The software also supports the simulation and display of treatments based on planning data, so that the potential success of a course of treatment can be illustrated even before work gets under way.
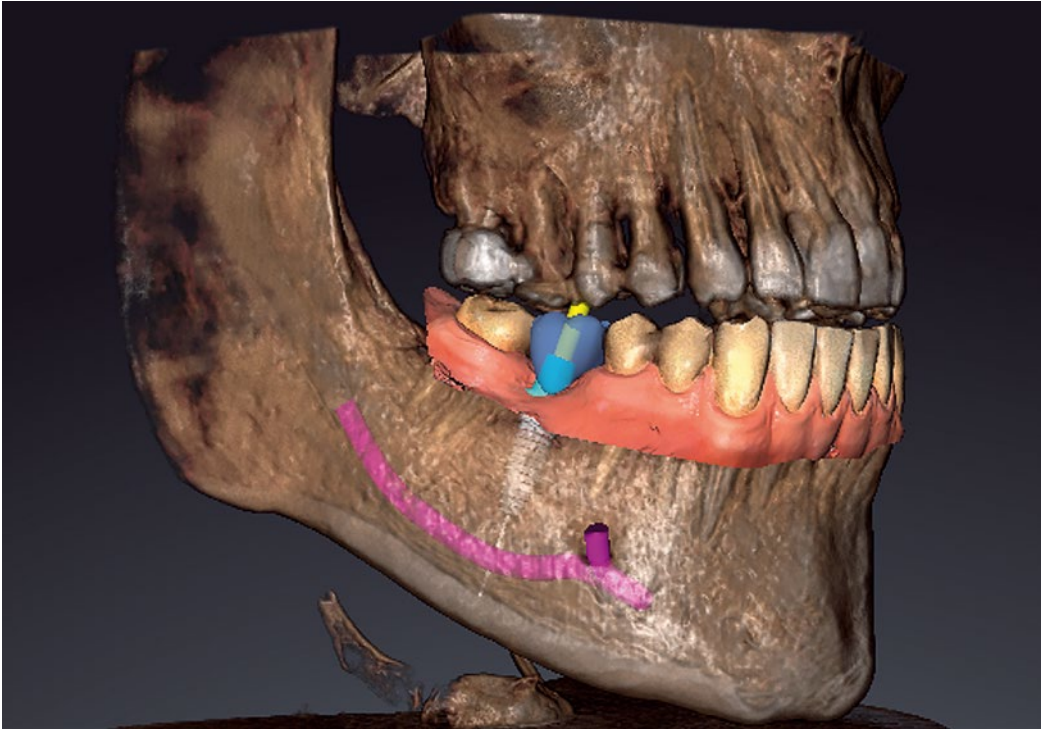
Data exchange made easy

VistaSoft Cloud

VistaSoft Cloud is the perfect platform for sharing X-ray images simply, cost-effectively and efficiently with colleagues, laboratories, clinics or patients. With just one click and the corresponding e-mail address you can share and comment on images in the cloud. It could not be more efficient.

The image data is transmitted via the VistaSoft Cloud in accordance with the requirements of the General Data Protection Regulation (GDPR).
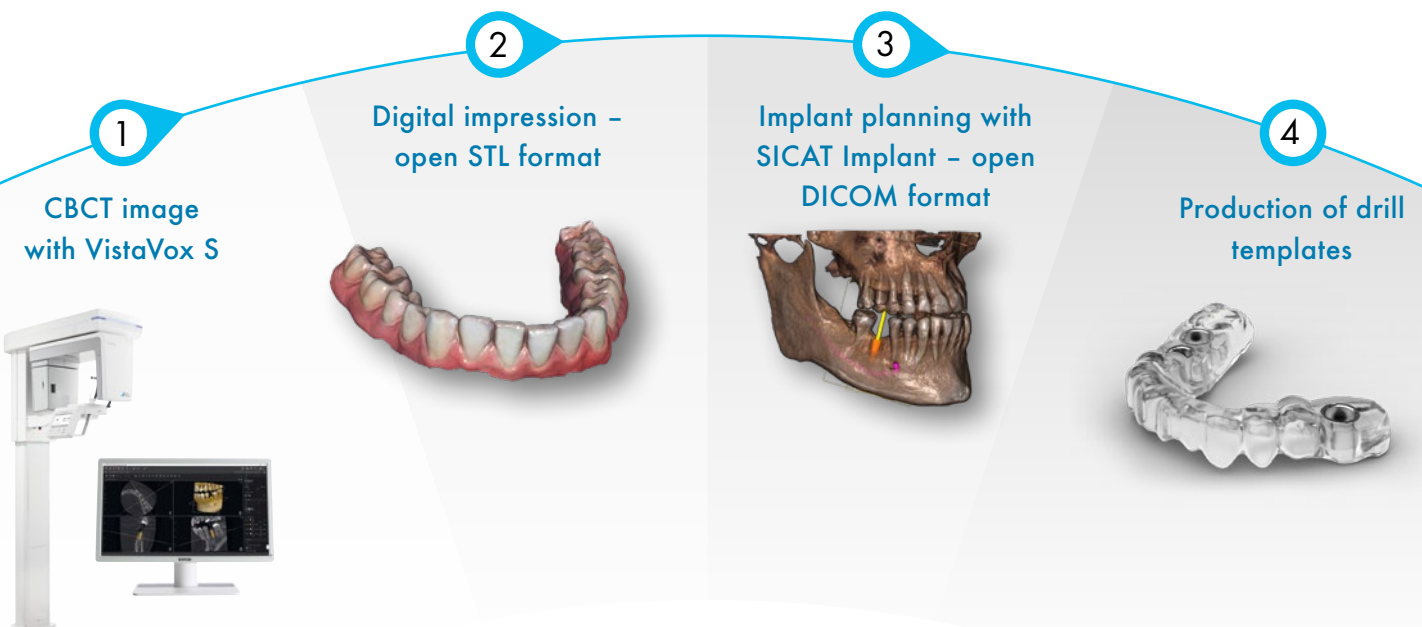
Optimally connected

VistaSoft offers optimum connections to the practice administration. The exchange of patient information, image data and billing information takes place simply and reliably via the VDDS media interface.

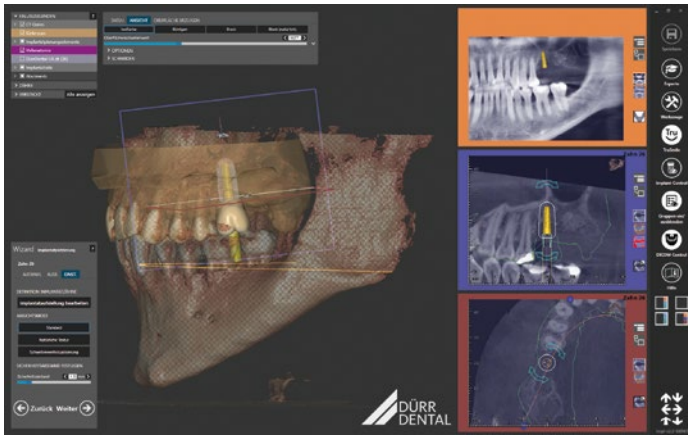# Digital implant workflow with VistaSoft and SICAT

Implant planning – simple and intuitive

Through its cooperation with SICAT, DÜRR DENTAL has been able to stay faithful to its philosophy of helping dental practices prepare themselves for the future with improved workflows in their day-to-day operations. Customers of both companies benefit from the fact that CEREC-based implant planning data can now also be generated with DÜRR DENTAL X-ray units. For more than a decade, SICAT has supplied innovative application-oriented solutions for many specialist areas of digital dentistry. With SICAT Implant 2.0 your implant planning is now even easier and faster. You can order SICAT drill templates directly from the software to put your implant plans straight into practice with the world's only solution for CEREC Guide planning.
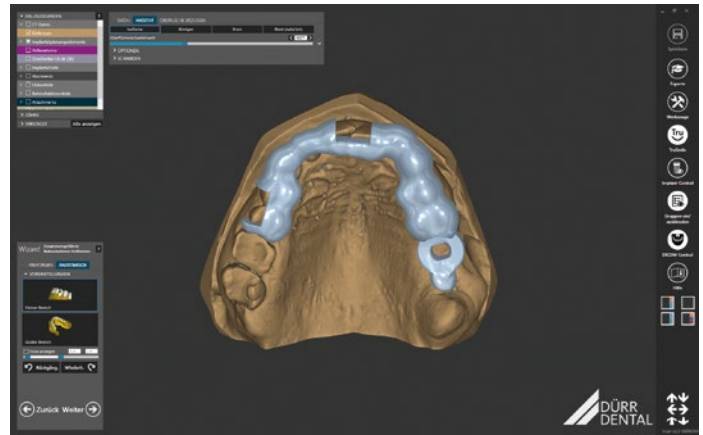
1 CBCT image with VistaVox S

2 Digital impression – open STL format

3 Implant planning with SICAT Implant – open DICOM format

4 Production of drill templates

User-friendly implant planning

VistaSoft Implant & Guide

Intuitive and efficient implant planning

User-friendly drill template planning

Implant planning – simple and intuitive

With VistaSoft Implant, you have access to a state-of-the-art tool for complete pre-surgical implant planning. It maps the entire digital workflow on the basis of 3D data records, which have been created with VistaVox S for example. In addition, you can also use digital impression scans in all standard formats. CBCT data and surface scans can be easily combined in VistaSoft Implant, thus helping you to achieve the highest possible accuracy and perfect results.

With VistaSoft Implant, you can carry out the entire backward planning – from the crown to the actual implant. A guided workflow leads you through the software and ensures simple and understandable planning, allowing you to use a wide range of different crown types and implants. The resulting planning data is saved as an open source STL file, which can be forwarded to a laboratory together with an automatically generated report.

Simple design of drill templates

VistaSoft Guide enables you to plan different types of drill template. Typically for Dürr Dental, all data is saved in the form of open source STL files, which means that it can be further processed on any platform. This allows you to send the data directly to an external research centre. Alternatively, you can create the drill template with a 3D printer or a milling system directly on-site yourself.

Implant and drill template planning with VistaSoft – your advantages:

- Step-by-step user guidance throughout the entire planning process
- Optimum planning of the implant seat
- Simple matching of optical scan data and 3D data
- Straightforward exchange of data thanks to the open source STL files

VistaSoft: System requirements

Version 3.0 or higher

CPU:	≥ Intel Core i3
RAM:	≥ 4 GB
Operating systems:	Compatible with current Windows operating systems. An up-to-date list can be found at: www.duerrdental.com/vistasoft-system
Hard disk:	Workstation (without database) ≥ 50 GB The database memory requirements depend on the number of images taken at the surgery in question. (Camera image: approx. 1 MB, X-ray image: approx. 2 MB – 10 MB, CBCT: 200 – 300 MB)
Drive:	DVD ROM
Data backup:	Daily data back-up
Interface:	Ethernet ≥ 100 Mbit
Graphics card:	Min. resolution ≥ 1280 x 1024, Depth of colour 32-bit, 16.7 million colours Recommended for 3D X-ray images: NVIDIA GeForce 750 2 GB
Diagnostic monitor:	In accordance with DIN 6868-157, room category 5 or 6 (depending on the requirements)
Notes:	Data migration from an existing DBSWIN installation is possible in VistaSoft from DBSWIN 5.11 or higher. VistaSoft Implant & Guide in cooperation with exocad GmbH.

P007100002IL02/N08 Subject to technical alterations

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