

**Award-winning innovations  
united in one single device.**  
The new KaVo OP 3D™.



**GERMAN  
INNO  
VATION  
AWARD '18  
WINNER**

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**KAVO**  
Dental Excellence

# Innovation at a glance. The KaVo ORTHOPANTOMOGRAPH™ OP 3D.



#### **Innovation in Panoramic imaging:**

- Automatic selection of the most optimum panoramic layer for consistently high image quality and easy patient positioning
- Fast scan time of only 9 seconds to reduce exposure time and increase patient comfort.

#### **Innovation in Cephalometric imaging and modularity:**

- Patented ORTHOceph™ plus design with fast cephalometric imaging scan times and adjustable field sizes for perfect image quality with minimal dose.
- Modular device, developed for quick installation procedures and easy maintenance and service.

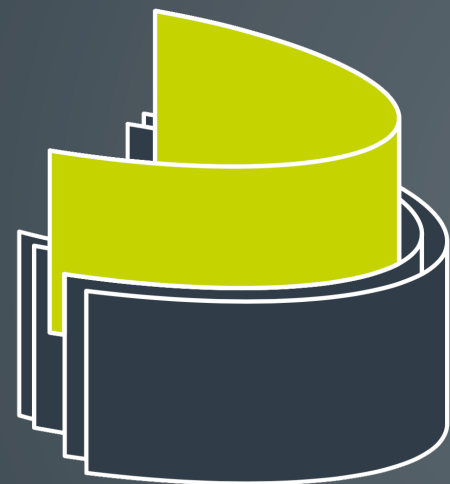
#### **Innovation in 3D imaging:**

- Free FOV positioning and height adjustment for a high number of flexible and customizable FOV options.
- LDT for low-dose, clinically relevant 3D scans.

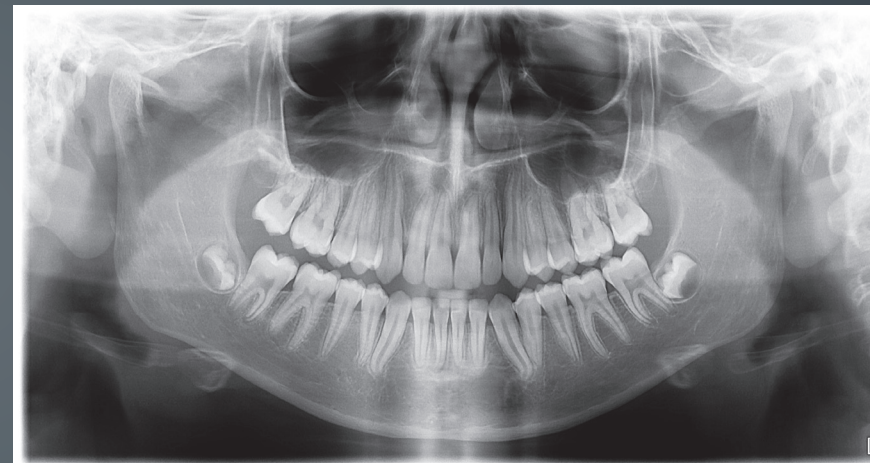
#### **Innovation in workflow:**

- Region of interest shown with very realistic view of dentition to increase speed and automatically adapt the FOV to the relevant anatomy.
- Immediate preview of captured image for timely evaluation.

# Innovation always in focus: Selection of optimum layer with ORTHOfocus™.



ORTHOfocus: automated selection of the optimum panoramic layer to ensure the highest image quality and to enable greater tolerances in patient positioning.



A clear definition of the dental anatomy: highly diagnostic images for standard, pediatric and segmented panoramics along with bitewing and lateral TMJ protocols.

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For panoramic programs, the innovative ORTHOfocus™ function automatically selects the optimal panoramic layer and displays it.

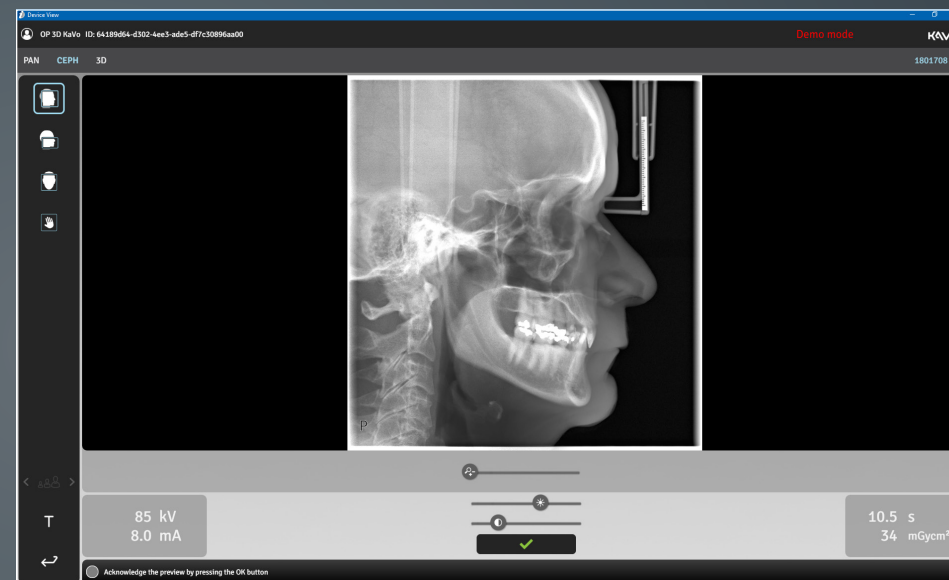
The device scans the patients dental arch. The software searches each image pixel to select the sharpest point of a particular location on the acquired image data and then combines its findings into an optimum Panoramic image.

The result: Consistently high image quality for every panoramic scan with a higher tolerance to patient positioning, consequently leading to much faster workflows.

# Innovation in 9 seconds: Fast scan time and immediate evaluation.



The LED light switches to green automatically as soon as the device is ready to take images.

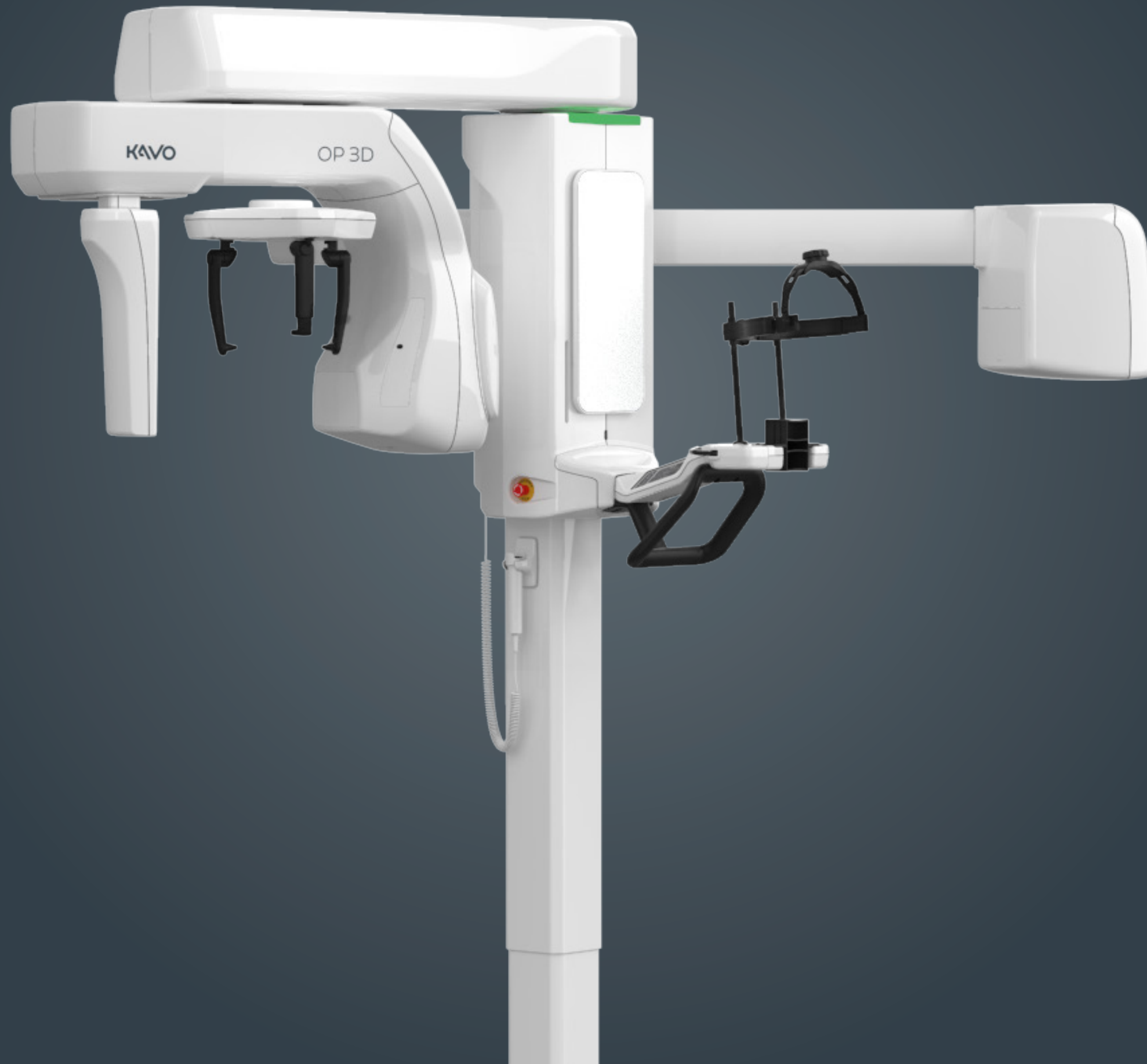


QUICKcompose™ feature: immediate check following the exposure.

The shorter the exposure time, the less likely it is for patient movement to affect the result of the exposure. To optimize image quality, Fast-Scan enables panoramic images with an exposure time of only 9 seconds.

Another innovation to offer a fast check of the exposure: QUICKcompose™ – available for panoramic, cephalometric and 3D modalities – offers a quick preview of the captured image, allowing a timely evaluation. The preview image automatically appears on the graphical user interface as soon as the scan is completed.

## Innovation in Cephalometric: Patented ORTHOceph™ Plus design.



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The innovative, patented ORTHOceph™ Plus design of the KaVo OP 3D takes cephalometric imaging workflow to a new level. The KaVo OP 3D provides all needed protocols such as Lateral and Pediatric Lateral projections with adjustable field widths, Posterior–Anterior (PA) projections and (optional) Carpus imaging – with fast scan times and a minimal dose.

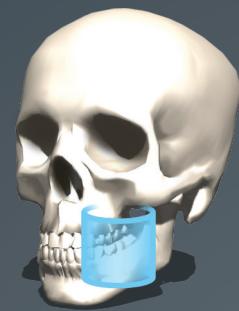
Thanks to its patented design, the KaVo OP 3D is by definition at the correct height for a CEPH image if a panoramic image has been taken first. Owing to the minimized needs for adjustments, workflows are easy and fast.

A dedicated X-ray source for the Cephalometric imaging, combined with advanced sensor technology, enables a high capacity and optimum imaging parameters resulting in clinically great results with a minimal patient dose.

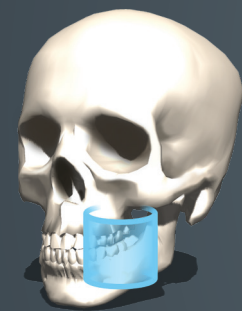
# Innovation becomes individuality: Customizable FOVs.



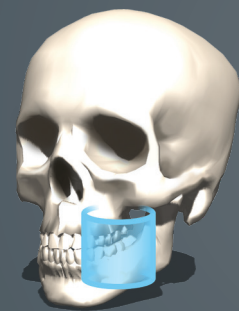
5 x 5 cm



6 x 9 cm

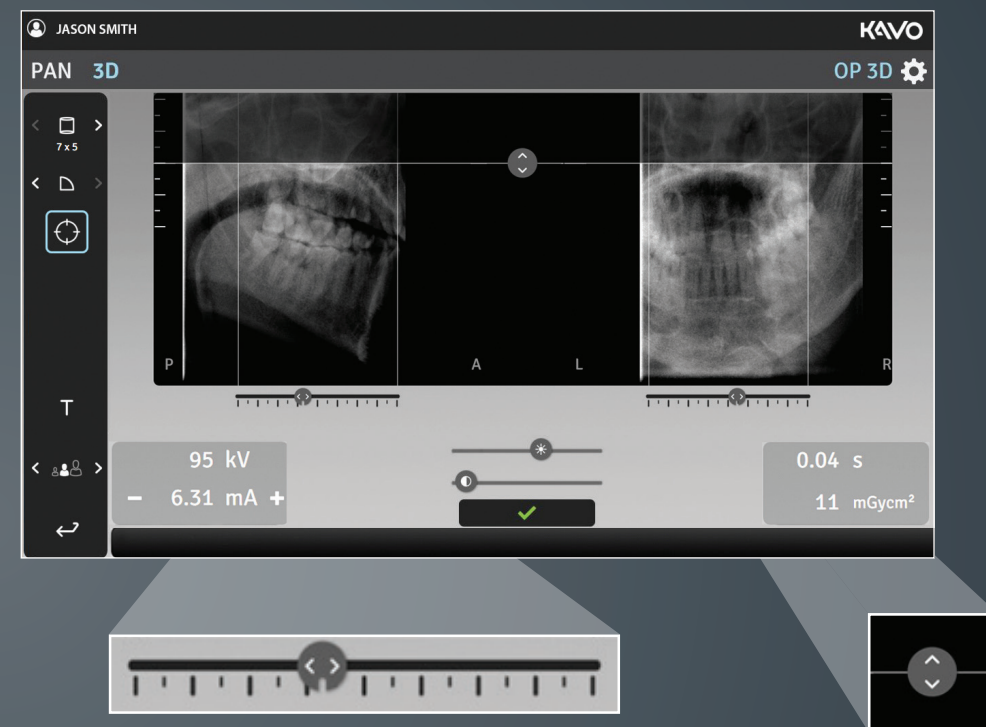


9 x 11 cm



9 x 14 cm

Four diameters with freely selectable heights and free horizontal position of FOVs, for optimised dose and improved diagnostics.



With SMARTVIEW™ 2.0, the exposure area is adapted to the real clinical need and therefore the dose can be minimized.

The KaVo OP 3D offers four defined 3D FOV diameters based on clinical needs – plus the possibility of customizing them.

FOV 5 x 5 cm with its endo resolution is optimized for single-tooth and localized diagnostics. FOV 6 x 9 cm offers the capability to scan either the lower or upper jaw, whereas FOV 9 x 11 cm combines both. With the largest, optional FOV 9 x 14 cm, TMJ can be conducted.

But most importantly: With the KaVo OP 3D you benefit from the flexibility to customize the FOV size and to position it according to clinical needs, thanks to both the horizontal and vertical adjustment. SMARTVIEW™ 2.0 offers the possibility to select the FOV diameter and adjusting the height between 5 and 9 cm in 5 mm increments with the aid of the scout image.

In addition, the Metal Artifact Reduction (MAR) is activated with all FOV sizes to reduce the influence of scattered radiation which emerges on high-density structures in X-ray volumes, and therefore to provide high quality images.

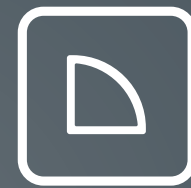
# Innovation for dose reduction: Low Dose Technology™.



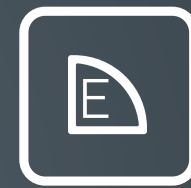
Low Dose  
Technology™ Scan



Standard  
Resolution Scan



High  
Resolution Scan



Endo  
Resolution Scan

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Low Dose Technology™ (LDT) enables 3D images with lower dose for all dose-sensitive cases as well as for check-up and follow-up examinations – wherever patient dose is to be minimized or lower resolution quality is acceptable.

Standard resolution scan with optimized patient dose can be used for general diagnostics. High resolution scan offers extremely sharp images for more detailed diagnosis. Endo resolution scan with 80 µm voxel size is specially designed for endodontic applications. Endo resolution is available for FOVs with 5 cm diameter (height can be adapted).

Innovation becomes simple:  
Intuitive device operation.



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Every feature of the KaVo OP 3D is designed to increase practice efficiency. Preparing the unit for a scan is fast, thanks to the intuitive patient positioning system and graphical user interface. All imaging protocols are optimized for practice workflows.

The desired imaging area can be selected intuitively with ORTHOselect™. Teeth can be selected individually or as a whole upper or lower jaw, or TMJ. The optimum FOV is set automatically based on the selection.

All functions can be easily and intuitively controlled in a time-saving way via laptop or PC through the practice's local network. Only the patient positioning is done on the device itself. The patient positioning settings can be managed via a touch panel with self-explanatory symbols.



Innovation starting from installation:  
Designed for time-saving, easy operation.



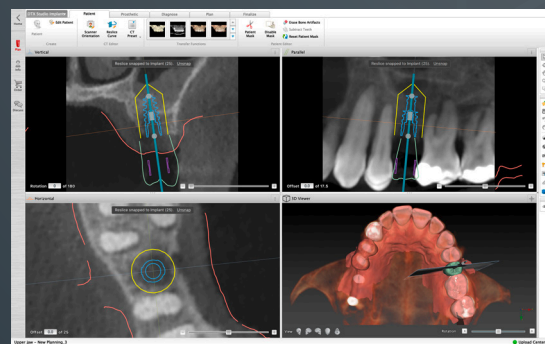
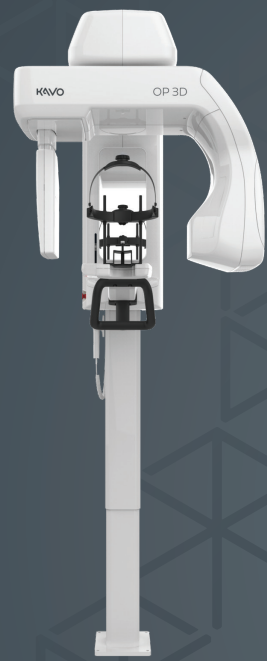
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To minimize downtime in your dental practice, the KaVo OP 3D was designed to ensure extremely simple and quick installation.

The device is delivered worldwide in a compact box, which is optimized for transport. Thanks to its intelligent design and its uncomplicated assembly, the KaVo OP 3D can be installed by one person within just a few hours.

The open design of the KaVo OP 3D enables flexible installation and facilitates operation in rooms of different shapes and sizes. The KaVo OP 3D offers easy access for your patients and convenient operation for your dental office team.

# Innovation for practice and lab: Unified software for efficient workflows.



The KaVo OP 3D is ready to be used with the DTX Studio™ software platform, which will offer 2D and 3D diagnostics in a new world of integrated workflows. DTX Studio™ will be compatible with the operating systems of Microsoft and Apple. With more and more extensions added, it will connect existing and future devices and software to an unified ecosystem.

Using the new DTX Studio™ software platform\*, your office will take advantage of a future constant stream of innovations and new enhancements that will cover all fields of modern dentistry and dental technology.

\* As soon as available in your region.

# Made for your diagnostic needs: KaVo Kerr extraoral imaging devices.



KaVo OP 3D – the innovative, configurable device for 2D, 3D and cephalometric.



KaVo OP 3D Pro – the professional 3-in-1 system for 2D, 3D and cephalometric.



i-CAT™ – the upgradable 3D X-ray system for the most demanding requirements.

Schedule a demonstration to try all innovations first-hand!  
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