Dental Excellence from KaVo.

Handpieces
KaVo has always been the leader in creating innovative solutions for dental practitioners. Our vast line of quality handpieces showcase our attention to your level of care while delivering performance that lasts.

Treatment Units
Beautiful lines, patient comfort and simple operation are just a few of the benefits to the line of KaVo treatment units. Everything you need to perform any procedure—all in one solution.

Imaging Solutions
Designed with ease-of-use for all clinicians in mind, KaVo now offers dependable and consistent imaging solutions that provide vital information to support accurate diagnosis and predictable treatment planning.

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ORTHOPANTOMOGRAPH™
OP 3D

The OP 3D is a unit designed for advanced dental imaging needs. It is a complete X-ray platform that provides easy-to-use features throughout the entire dental imaging workflow. The versatile panoramic and 3D programs offer imaging excellence for a variety of users ranging from general dental practitioners to maxillofacial surgeons and airway specialists.

The OP 3D system from KaVo is the newest member of the legendary ORTHOPANTOMOGRAPH™ product family; it respects the legacy, yet renews the meaning of image quality, efficiency and ease-of-use.

3D images provide valuable information vital to diagnosis and optimal treatment planning. Evaluation of different morphologies is easy as the region of interest can be viewed from all directions.

- Implantology
- Endodontics
- Impactions
- TMJ
- Airway
- Trauma
- Periodontics

Sustainable Green Solution
The OP 3D replaces lead typically used for tubehead radiation shielding designs with a more ecological and environmentally friendly alternative that provides equivalent radiation attenuation. Plus, the power save feature of this system reduces overall energy consumption of the practice.
Designed for Efficiency

Every feature of the OP 3D is designed to increase practice efficiency. Preparing the unit for a scan is fast with an intuitive patient positioning system and graphical user-interface. Imaging protocols are optimized for practice workflows.

**NEW FEATURE: ORTHOselect™ for optimized workflow**

The desired imaging area can be selected intuitively with the ORTHOselect user interface. Selections can be made as individual teeth, an entire upper or lower jaw, or TMJ. The optimum field-of-view (FOV) is set automatically based on the selection.

**NEW FEATURE: Customized FOVs with SMARTVIEW 2.0**

With OP 3D, the number of FOV sizes is practically unlimited. SMARTVIEW™ 2.0 user-interface enables choosing the most optimum FOV size for the clinical need as the FOV height and width can be freely adjusted from the taken scout image.

**NEW FEATURE: SMARTVIEW™ 2.0 user-interface**

With OP 3D, the FOV location can be controlled easily and accurately. SMARTVIEW™ 2.0 user-interface offers two-dimensional scout images prior to the actual CBCT examination. Users can verify the exact FOV location with the ability to adjust automatically based on the selection. This limits the need for retakes and can help lower dosage and follow ALARA (As Low As Reasonably Achievable) radiation protocols.

**QUICKcompose™ feature for fast image review**

QUICKcompose, available for both panoramic and 3D modalities, offers a quick preview of the captured image allowing for timely evaluation.
Tools for Professionals

One size doesn’t have to fit all. The OP 3D offers efficient tools for optimizing the patient dose with its ability to allow the clinician to select the best resolution, FOV size, and region of interest.

Clearer images with MAR technology
To provide the highest level of image quality, the Metal Artifact Reduction (MAR) is readily activated with all the FOV sizes of OP 3D. MAR is optimized to aid in all cases ranging from endodontics and implants to maxillofacial imaging.

Variety of resolutions

Low Dose Technology® scan (LDT) can be utilized in dose-sensitive cases and in control and follow-up scans where patient dose is to be minimized, or lower resolution 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 80µm voxel size specially designed for endodontic applications. Endo resolution is available for the 5 x 5 FOV.

Clinical Images

The OP 3D Fields-of-View are based on true clinical need.

FOV 5 x 5 cm
Optimized for endodontics, single-site implants, impactions and localized diagnostics.

FOV 6 x 9 cm
Covers the complete lower or upper jaw with opposing occlusion.

FOV 9 x 11 cm
Covers the entire dentition, including both lower and upper jaws as well a portion of maxillary sinus.

FOV 9 x 14 cm*
Encompasses the whole maxillofacial area.

Variety of resolutions

Standard resolution scan

High resolution scan

Endo resolution scan

Clinical Images

FOV 5 x 5 cm

FOV 6 x 9 cm

FOV 9 x 11 cm

FOV 9 x 14 cm*
2D Panoramic

Bitewing-like view is a quick and easy alternative to intraoral bitewing imaging.

9-SECOND SCAN TIME: The standard panoramic program provides a clear definition of the dental anatomy, including TMJs—in only 9 seconds.

The pediatric panoramic program has a clinically adapted image layer and reduced image height.

ORTHOfocus™ feature—sharp images automatically

With the ORTHOfocus feature, the optimum panoramic image layer is automatically obtained enabling forgiving patient positioning. The result is consistent image quality every time.
**Technical Specifications**

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<thead>
<tr>
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<th>2D</th>
<th>Panoramic</th>
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<tbody>
<tr>
<td><strong>Focal Spot</strong></td>
<td>0.5 mm (IEC 338)</td>
<td></td>
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<tr>
<td><strong>Tube Voltage</strong></td>
<td>80–95 kV</td>
<td></td>
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<tr>
<td><strong>Tube Current</strong></td>
<td>2–16 mA</td>
<td></td>
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<tr>
<td><strong>Image Detector</strong></td>
<td>CMOS</td>
<td></td>
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<tr>
<td><strong>Sensor Pixel Size</strong></td>
<td>99 µm</td>
<td>99 µm</td>
</tr>
<tr>
<td><strong>Image Pixel Size</strong></td>
<td>99 µm</td>
<td>99 µm</td>
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<tr>
<td><strong>Scan Time</strong></td>
<td>9 s</td>
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<tr>
<td><strong>Image Field Height</strong></td>
<td>147 mm</td>
<td></td>
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<tr>
<td><strong>Imaging Programs</strong></td>
<td>Standard, Segmented, Retromolar, Lat TMJ, Bitewing</td>
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**3D**

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<tr>
<td><strong>Image Detector</strong></td>
<td>CMOS</td>
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<td><strong>Image Voxel Size</strong></td>
<td>80 µm–600 µm</td>
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<td><strong>Scan Time</strong></td>
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<tr>
<td><strong>Image Volume Sizes (H x W)</strong></td>
<td>5x5, 6x9, 9x14 cm</td>
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<tr>
<td><strong>DICOM Support</strong></td>
<td>Yes</td>
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**Unit Dimensions**

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<tr>
<td><strong>3.1–4.4”</strong></td>
<td>(77.5–112.5 mm)</td>
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<tr>
<td><strong>8.6”</strong></td>
<td>(219 mm)</td>
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<tr>
<td><strong>37.4–67.2”</strong></td>
<td>(951–1706 mm)</td>
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*Device dimensions after imaging movements (absolute minimum dimensions). Refer to manual for more detail.*

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**KaVo—Dental Excellence**

KaVo is committed to providing the foundation so our customers can do more of what is important to them and their patients. Through product innovation, world-class service and exceptional support, KaVo brings the best dental technology—from Gendex, Instrumentarium Dental, NOMAD, and SOREDEX—together as one. The known KaVo quality is now available in an impressive product portfolio. We are proud to offer handpieces, treatment units, world-class imaging solutions and more.

**Everyday, we are empowering clinicians to do more of what matters.**

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