ORTHOPANTOMOGRAPH™ OP 2D
Quality and design
ORTHOPANTOMOGRAPH™
OP 2D

OP 2D is a digital panoramic X-ray unit that combines distinctive design and reliable quality with all essential tools for standard panoramic imaging needs. OP 2D is part of the well-known ORTHOPANTOMOGRAPH™ product family.

All the essentials included
• Stable 5-point patient positioning
• Optimal imaging geometry
• Adjustable anterior layer position with 3 positioning lights
• Powerful high-frequency X-ray tubehead design
• High resolution CCD imaging sensor
• V-shaped collimation optimizes image quality
• Versatile software tools to enhance diagnostic capabilities
One-of-a-kind image quality

Sharp and detailed images are enabled by a powerful tubehead and wide range of exposure settings that fit every patient size. A special V-shaped radiation beam is essential to overcome anatomical differences between the patients.

Utilizing the OP 2D segmented pan feature enables capture of the area of interest with specific panoramic regions, while lowering patient radiation dose.

The standard panoramic imaging program provides clear definition of the dental anatomy including TMJs—in only 10 seconds.
User-friendly workflow

**Just 2 selections need to be made**
- Choose the imaging program
- Select patient size

Straightforward operation makes taking the panoramic image fast and easy. An integrated 5.7 inch touchscreen with remarkably user-friendly navigation is extremely simple to use.

**Patient positioning**

Intuitive 5-point patient positioning system holds the patient still during the imaging procedure to reduce movement artifacts. Three laser positioning lights make positioning accurate. The sharp layer is easily adjustable for every patient.
The pediatric panoramic imaging program provides a reduced imaging area for pediatric and small patients.

Lateral view from temporomandibular joint area with mouth closed or open.

The bitewing view is a quick and easy alternative for intraoral bitewing imaging.
Leading the way through the decades

For more than 50 years, the name of ORTHOPANTOMOGRAPH™ system has stood for ultimate reliability and clinically correct maxillofacial imaging.

- **1946**: Professor Y.V. Paatero publishes his first paper on Panoramic Tomography.
- **1951**: “Pantomography” equipment is presented.
- **1961**: The first dental panoramic X-ray, ORTHOPANTOMOGRAPH™ OP1, is developed.
- **1964**: ORTHOPANTOMOGRAPH™ system becomes the leading name within dental panoramic imaging with models OP5/OC5, OP6 and OP10/OC10.
- **1978**: Direct digital ORTHOPANTOMOGRAPH™ OP100 product family is introduced.
- **1992**: New innovations, such as the lifting cassette head and linear tomography, are introduced along with the OP100 product family.
- **1999**: Volumetric Tomography (VT) is developed to maximize the performance of an ORTHOPANTOMOGRAPH™ unit.
- **2006**: New ORTHOPANTOMOGRAPH™ product family OP200 is launched.
- **2007**: CBCT era begins. ORTHOPANTOMOGRAPH™ OP300, the most comprehensive 3-in-1 platform, is launched to celebrate 50 years of ORTHOPANTOMOGRAPH™ success.
- **2009**: A new member to the ORTHOPANTOMOGRAPH™ product family—OP30—is launched.
- **2011**: Introduction of improved 3D image quality, new Metal Artifact Reduction (MAR) tool and endo mode for ORTHOPANTOMOGRAPH™ OP300 3D images.
- **2013**: ORTHOPANTOMOGRAPH™ OP300 Maxio configuration, offering diagnostic information of the entire maxillofacial region, is launched.
- **2014**: New revision of ORTHOPANTOMOGRAPH™ OP30 unit is launched.
Technical Specifications

Focal Spot 0.5 mm IEC 60336/1993
Tube Voltage 63–81 kV
Tube Current 6–12 mA with 220–240 VAC (tube current limited with 100–125 VAC)
Nominal Voltage 100–125 VAC or 220–240 VAC, 50/60 Hz
HU Capacity 30 kJ, 42 000 HU
Minimum Total Filtration 2.6 mm Al
Wheelchair accessible Yes

Panoramic
Image Detector CCD
Sensor Pixel Size 48 µm
Image Pixel Size 96 µm
Image Field Height 147.5 mm
Exposure Time 5–12 s
Imaging Programs Standard, Pediatric, Segmented, TMJ Lateral, Bitewing
Weight 120 kg/265 lbs

Minimum System Requirements for Acquisition Workstation

CPU (processor) Intel Core i3, 2-cores or more
GPU (graphics processing unit) No special requirements
RAM (memory) 4 GB or more
Storage (hard disk) 8 GB free disk space, 100 GB or more recommended, plus backup
Network Gigabit Ethernet 1000 Mb/s or Fast Ethernet 100 Mb/s
Operating System Windows 10 Pro or Enterprise, 64-bit recommended, 32-bit supported
Windows 8.1 Pro or Enterprise, 64-bit recommended, 32-bit supported
Windows 7 Professional, Ultimate or Enterprise with SP1, 64-bit recommended, 32-bit supported
Display 1980 x 1050 resolution higher, at least 300 cd/m² brightness for typical room lighting, native contrast ratio 100:1 or better, 8-bit panel strongly recommended

Other OpenCL 1.1 support
DVD-ROM drive
Anti-virus software

Notes Please refer to software and device installation manuals for detailed requirements

Unit Dimensions

Standard column leg 2440 mm (92.1”)
Short column leg 2250 mm (88.6”)
Standard column leg 965–1740 mm (38–68.5”)
Short column leg 875–1650 mm (34.5–65”)
177–215 mm (7”–8.5”)
700 mm (27”)
980 mm (38.6”)
830 mm (32.7”)
1055 mm (41.5”)
255 mm (8.9”)
1060 mm (41.7”)

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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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