ORTHOPANTOMOGRAPH™ OP 2D
Quality and design

DEXIS

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.

OP 2D

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.
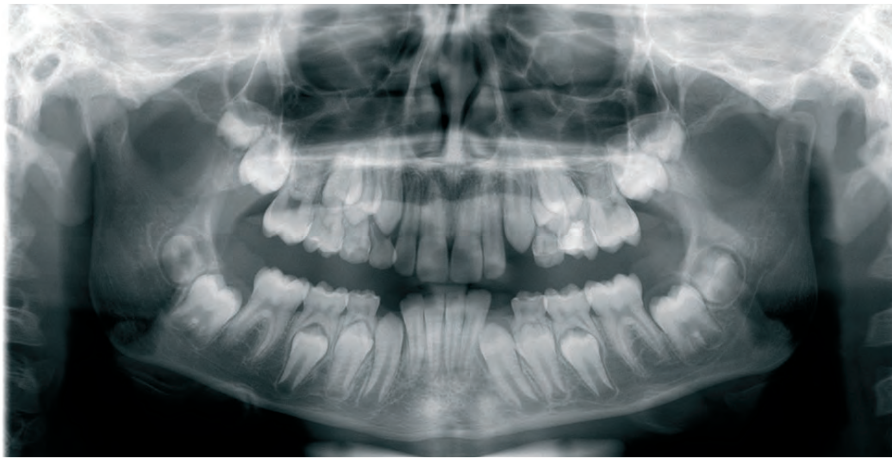
User-friendly workflow

Just 2 selections need to be made

· Choose the imaging program
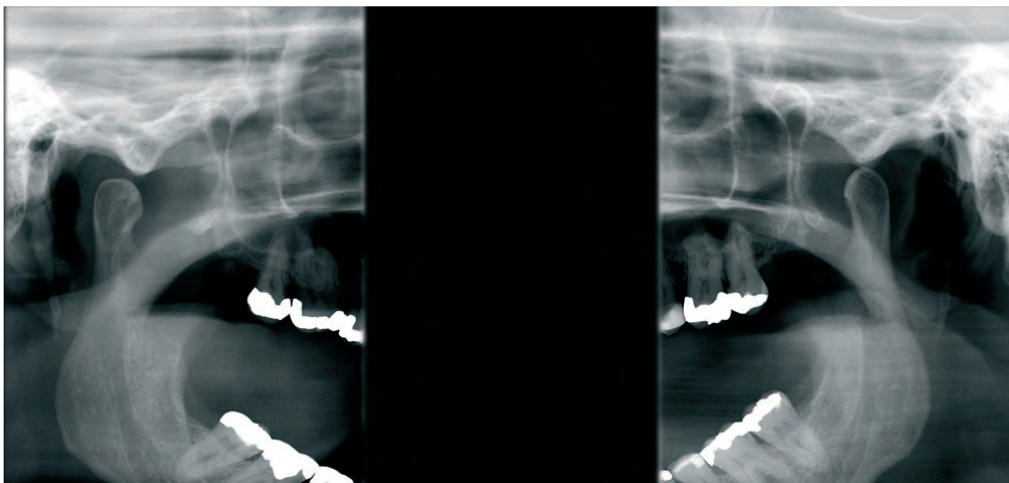· Select patient size

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.
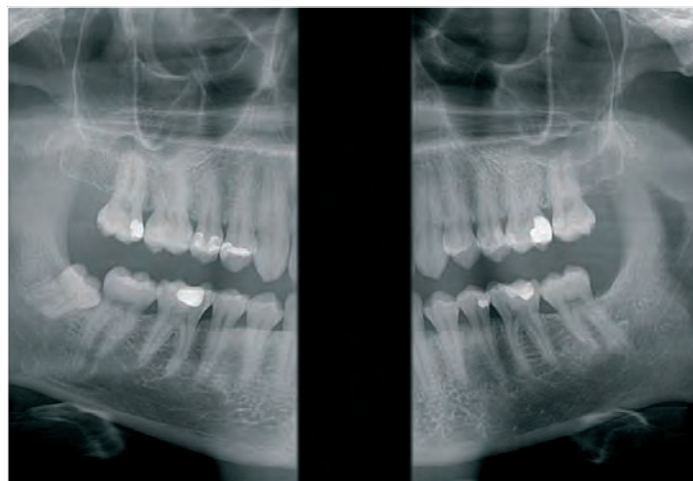
Patient positioning

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.
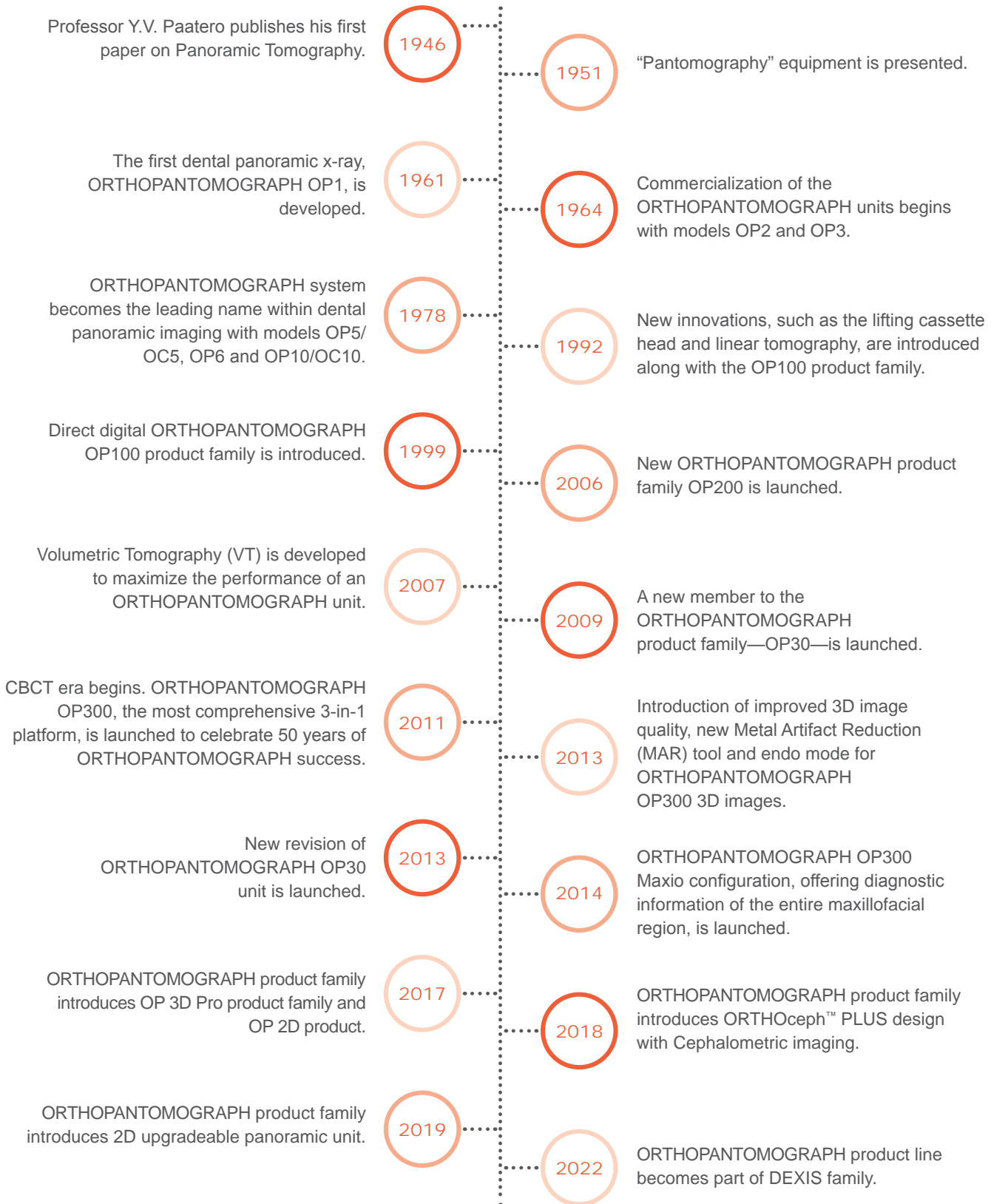

Lateral view from temporomandibular joint area with mouth closed or open.

The bitewing view is a quick and easy alternative for intraoral bitewing imaging.

Leading the way through the decades

For more than 60 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 Commercialization of the ORTHOPANTOMOGRAPH units begins with models OP2 and OP3.

1978 ORTHOPANTOMOGRAPH system becomes the leading name within dental panoramic imaging with models OP5/OC5, OP6 and OP10/OC10.

1992 New innovations, such as the lifting cassette head and linear tomography, are introduced along with the OP100 product family.

1999 Direct digital ORTHOPANTOMOGRAPH OP100 product family is introduced.

2006 New ORTHOPANTOMOGRAPH product family OP200 is launched.

2007 Volumetric Tomography (VT) is developed to maximize the performance of an ORTHOPANTOMOGRAPH unit.

2009 A new member to the ORTHOPANTOMOGRAPH product family—OP30—is launched.

2011 CBCT era begins. ORTHOPANTOMOGRAPH OP300, the most comprehensive 3-in-1 platform, is launched to celebrate 50 years of ORTHOPANTOMOGRAPH success.

2013 Introduction of improved 3D image quality, new Metal Artifact Reduction (MAR) tool and endo mode for ORTHOPANTOMOGRAPH OP300 3D images.

2013 New revision of ORTHOPANTOMOGRAPH OP30 unit is launched.

2014 ORTHOPANTOMOGRAPH OP300 Maxio configuration, offering diagnostic information of the entire maxillofacial region, is launched.

2017 ORTHOPANTOMOGRAPH product family introduces OP 3D Pro product family and OP 2D product.

2018 ORTHOPANTOMOGRAPH product family introduces ORTHOceph™ PLUS design with Cephalometric imaging.

2019 ORTHOPANTOMOGRAPH product family introduces 2D upgradeable panoramic unit.

2022 ORTHOPANTOMOGRAPH product line becomes part of DEXIS family.

Technical specifications

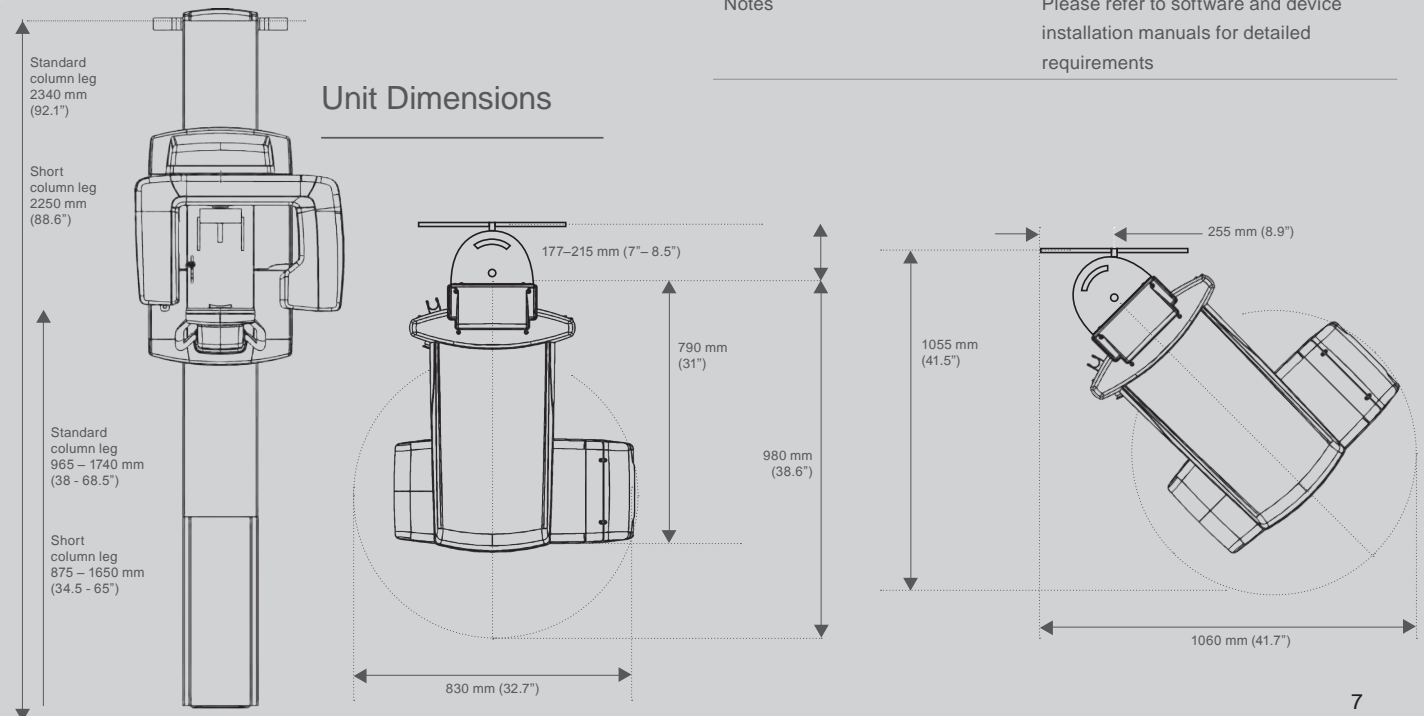|	
Focal Spot	0.5mm IEC 60336/1993
Tube Voltage	63–81 kV
Tube Current	6–12 mA with 220-240 VAC (tube current limited with 100-125 VAC)
Nominal Voltage	100–125 VAC or 220–240 VAC, 50/60Hz
HU Capacity	30 kJ, 42 000 HU
Minimum Total Filtration	2.6 mm Al
Wheelchair accessible	Yes

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	1680 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	Open CL 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 2340 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")

790 mm (31")

980 mm (38.6")

830 mm (32.7")

255 mm (8.9")

1055 mm (41.5")

1060 mm (41.7")

About DEXIS

DEXIS innovation is nothing new. After all, our recognized, trusted products are built on over 200 years of dental imaging expertise, combining leading brands including i-CAT™, Gendex™, Instrumentarium, SOREDEX™, and NOMAD™ Pro 2. Today, over 150,000 offices trust DEXIS products around the world.

DEXIS now includes a full portfolio of products including CBCT and Intraoral scanners, our legacy digital sensors and handheld x-ray system and DTX Studio™ Clinic, the next generation software. This complete digital solution works seamlessly together as well as with other systems to enhance the way you diagnose, plan, and treat patients in your practice. Elevate your patient outcomes with greater confidence — across the patient journey. With DEXIS proven solutions, you'll be able to treat patients from consultation to diagnosis to treatment to surgery and deliver appliances, all with the efficiency that you come to expect with the DEXIS brand you already know.

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