INSTRUMENTARIUM

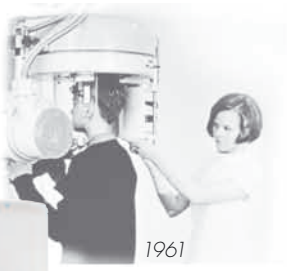
Digital panoramic imaging system

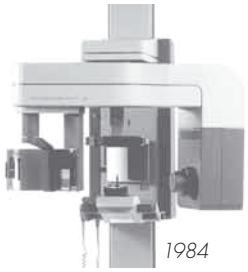
Orthopantomograph® OP30

Leading the way through the decades

1946	Professor Y.V. Paatero publishes his first paper on Panoramic Tomography.
1951	"Pantomography" equipment is presented.
1961	The first dental panoramic X-ray, the Orthopantomograph® OP1, is developed.
1964	Commercialization of the Orthopantomograph® begins with models OP2 and OP3.
1978	Orthopantomograph® becomes the leading name within dental panoramic imaging with the 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.
2008	The OP200 D is complemented with new features: e.g. autocollimator and bitewing and core lateral ceph imaging programs.
2009	A new member to the Orthopantomograph® product family – the OP30 – is launched.


1951


1961


1984


1992


2006

Choose your own Orthopantomograph®	OP30	OP200 D
Standard panoramic imaging	•	
Advanced panoramic imaging		•
TMJ imaging	•	•
Volumetric Tomography		•
Cephalometric		•

Design and quality

The Orthopantomograph® OP30 is a digital panoramic X-ray unit designed for every dental office and small imaging centers demanding a top quality digital panoramic system at a competitive price. The OP30 truly continues the legacy of the well-known Orthopantomograph® product family.

A standard panoramic system does not mean standard design.

The Orthopantomograph® OP30 combines distinctive design and reliable quality with professional tools for standard panoramic imaging needs.

It could not be easier

Straightforward operation makes panoramic imaging fast and easy. An integrated 5.7 inch touch screen with remarkably user-friendly navigation is extremely simple to use.

Just 2 selections need to be made from the control panel:

1. Choose the imaging program
2. Use the pre-set kV values or adjust if needed

Patient positioning

The 5-point, easy patient positioning system holds the patient still during the imaging procedure to reduce movement artifacts. 3 laser positioning lights make positioning accurate. The sharp layer is easily adjustable for every patient.

Easy wheelchair accessibility.

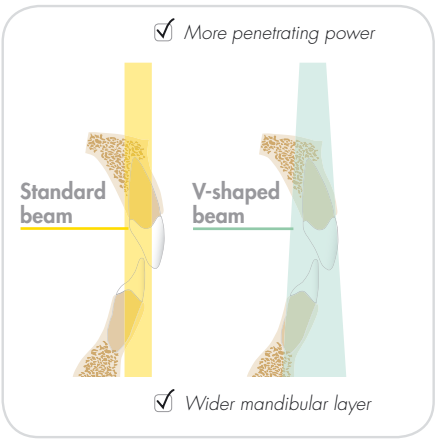
One-of-a-kind image quality

The quality of images is a result of many elements, such as carefully designed features, sufficient technical characteristics and correct patient positioning. The Orthopantomograph® OP30 combines all these for your benefit and provides you with perfect images.

All the essentials included

- ☑ Stable 5-point patient positioning
- ☑ Optimal imaging geometry
- ☑ Adjustable anterior layer position with 3 positioning lights
- ☑ High frequency tube head design
- ☑ High resolution CCD imaging sensor
- ☑ V-shaped collimation optimizes image quality
- ☑ Versatile software tools to enhance diagnostic capabilities

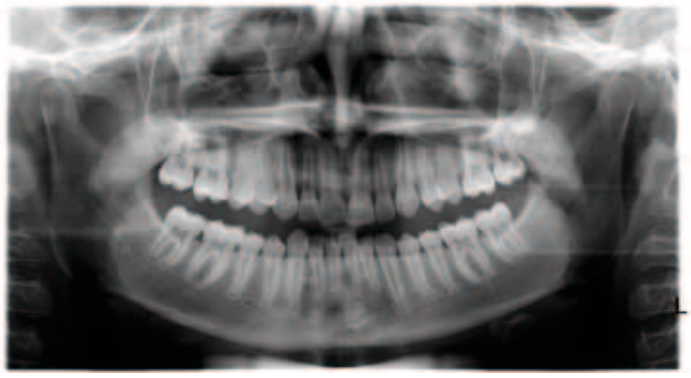
Benefits of V-shaped collimation



A V-shaped beam supports better imaging of the human anatomy than a standard beam and ensures a homogeneous image.

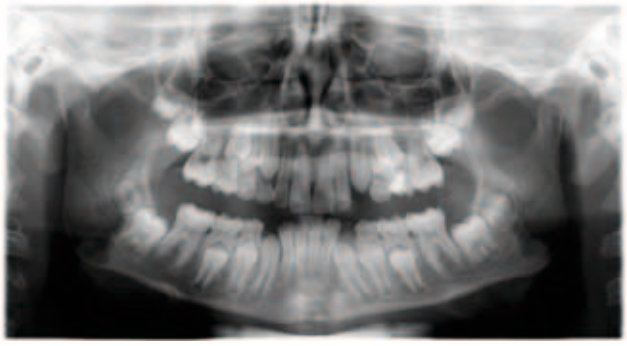
Imaging programs

Standard panoramic



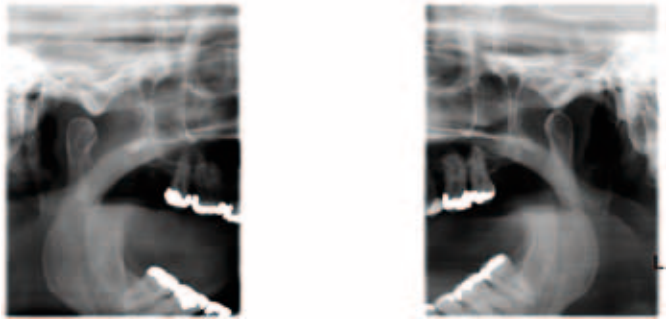
P1 *The standard panoramic imaging program provides clear definition of the dental anatomy including TMJ's – only in 10 seconds.*

Pediatric panoramic



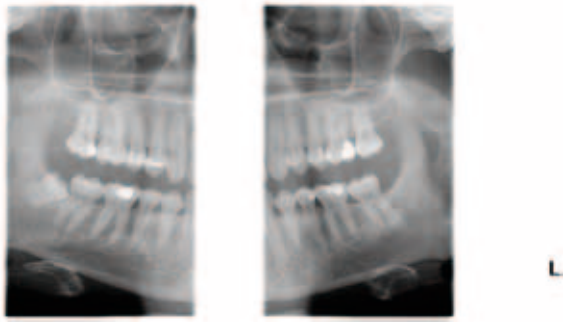
P2 *The pediatric panoramic imaging program provides a reduced imaging area for pediatric and small patients.*

TMJ



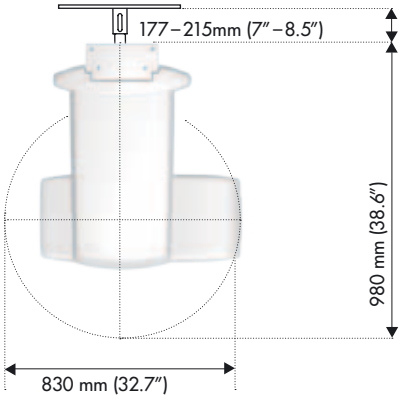
P3 *Lateral view from tempomandibular joint area with mouth closed or open.*

BW



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

Dimensions



Standard column	2340 mm (92.1″)
Short column	2250 mm (88.6″)

Technical specifications

generator	High frequency DC, operating frequency 100–130kHz
X-ray tube	D-054 SB or equivalent
focal spot	0.5mm IEC 60336/1993
filtration	min 2.8 mm Al
tube voltage	66–77 kV
tube current	9/10 mA (tube current 9 mA when nominal voltage 100/115 VAC is used)
nominal voltage	100/115 VAC or 220/230/240 VAC 50/60 Hz
weight	120 kg
sensor pixel size	48 µm
image pixel size	96 µm
image field height	147 mm
PC minimum requirements for image capturing	Pentium 1 Ghz or equivalent, 512 Mb, 40 Gb
TWAIN connectivity	optional
DICOM* compatibility	optional
PC connection	LAN/Ethernet

* DICOM is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information.

INSTRUMENTARIUM DENTAL develops, manufactures and markets high-tech systems and solutions for dental and maxillo-facial imaging. We work in close co-operation with dental professionals, universities and other research centers in our quest to develop solutions that will meet and exceed the expectations of our customers. As the establisher of panoramic X-ray imaging we are committed to providing high clinical performance while still maintaining simplicity, ease of use and workflow efficiency.

The Instrumentarium Dental product portfolio consists of a full range of premium quality imaging solutions for both intraoral and extraoral imaging. For more detailed information about our products please visit **www.instrumentariumdental.com**.

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