

# True 3-in-1 platform

## Technical specifications

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generator	high frequency DC, 75–150 kHz		
focal spot	0.5 mm IEC 336		
tube voltage	57–90 kV		
tube current	3.2–16 mA		
minimum total filtration	3.2 mm Al		
Panoramic		Cephalometric	
image detector	CMOS	image detector	CMOS
sensor pixel size	100 µm	sensor pixel size	100 µm
image pixel size	100 µm	image pixel size	100 µm
scan time	8.6–16.1 s	scan time	6.5 s – 20 s
image field height	151 mm	image field width	160 mm – 270 mm
3D			
image detector	CMOS		
image voxel size	85 µm–420 µm		
scan time	10 – 40 s		
exposure time	1.2 – 9 s, pulsed X-ray		
image volume sizes (HxV)	50 x 50 mm, 61 x 78 mm, 78 x 78 mm, 78 x 150 mm, 130 x 150 mm		
DICOM support	yes		
Minimum system requirements for acquisition computer			
processor	2.5 GHz dual core, or better		
memory	8 GB RAM or more		
hard disk	500 GB or more		
expansion slot	PCI Express x16, full length		
network	Gigabit Ethernet, 1000Base-T		
power supply	500 watt minimum		
operating system	Windows 7, Windows Vista or Windows 8 (64-bit)		

\* OP300 Maxio is a medium field-of-view configuration of OP300.

\*\* Based on measured DAP-values. FOV 5x5 cm compared to OP300 standard adult panoramic image (66 kV, 10 mA). Dose is proportional to image quality.

**Instrumentarium Dental** develops, manufactures and markets high-tech systems and solutions for dental and maxillofacial 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 intraoral, extraoral and 3D imaging. Instrumentarium Dental reserves the right to make changes to specifications and features shown herein, or to discontinue the product described at any time without notice or obligation. Contact your Instrumentarium Dental representative for the most current information. CE marked according to Medical Device Directive (NB 0537). Electrical safety according to IEC 60601-1. Operations comply with ISO 13485:2003, ISO 9001:2008, and ISO 14001:2004.

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[www.instrumentariumdental.com](http://www.instrumentariumdental.com)

### Headquarters

Instrumentarium Dental  
Nahkelantie 160  
P.O. Box 20  
FI-04300 Tuusula  
Finland  
Tel. +358 10 270 2000  
Fax +358 10 270 2230  
e-mail: [info@instrudental.com](mailto:info@instrudental.com)

### USA

Instrumentarium Dental  
11727 Fruehauf Drive  
Charlotte, NC 28273  
U.S.A  
Tel. 800-558-6120  
Fax. 877-292-6050  
e-mail: [KKG.Imaging.CS@kavokerrgroup.com](mailto:KKG.Imaging.CS@kavokerrgroup.com)



 INSTRUMENTARIUM



## A new member of the legendary product family

### Over 50 years of experience in panoramic imaging

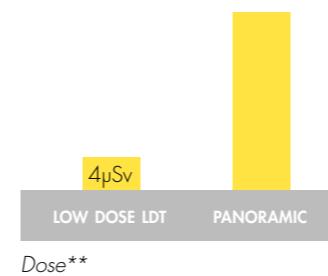
The first ORTHOPANTOMOGRAPH™ unit, introduced over 50 years ago, was a revolutionary groundbreaker and pacesetter for dental X-ray imaging. Today, ORTHOPANTOMOGRAPH™ product line is regarded as the leading brand in the panoramic X-ray world and often used as a benchmark for other X-ray units.

## We care for your patients' well-being

ORTHOPANTOMOGRAPH™ OP300 Maxio follows the OP product family legacy of patient care. OP300 Maxio utilizes familiar stable and open patient positioning as well as two-dimensional SMARTVIEW™ scout images and motorized chinrest for precise FOV positioning. Imaging values are optimized for each imaging program and the resolution can be selected according to the indication.

### Low Dose Technology™ LDT

Low Dose Technology™ function provides quality images optimized for a very low dose. This technology provides low dose scans for sensitive cases such as children, follow-up imaging or implant planning while maintaining clinical value. All FOV sizes have the possibility for low dose imaging.



### Automatic dose control (ADC)

User-selectable ADC adaptively regulates panoramic exposure levels to each individual patient, during every acquisition to optimize the dosage patient-specifically.

## Complete versatility

### A platform for changing needs

ORTHOPANTOMOGRAPH™ OP300 is the most comprehensive 3-in-1 platform with a full range of clinically proven imaging programs designed for today and tomorrow. OP300 combines an advanced panoramic imaging system with either cephalometric or cone beam 3D or a combination of both, giving you a truly adaptable platform for different imaging applications and dental specialities.

### Upgradeability

OP300 is designed and built as an expandable platform in which both 3D and cephalometric options are field upgradeable. OP300 can truly grow with your practice and be tailored to your preferences.

## Confident diagnostics of entire maxillofacial region



### Five fields-of-view

#### FOV 5x5 cm

Optimized for single site implants or localized diagnostics, keeping the patient dose at a substantially reduced level.

#### FOV 6x8 cm

Covers the complete dental arch for multiple implant placement and allows for the use of surgical guides.

#### FOV 8x8 cm

Covers the entire dentition, including both mandibula and maxilla as well a portion of maxillary sinus.

#### FOV 8x15 cm

Covers both mandibula and maxilla including airway and upper cervical spine or the sinus. Both TM joints can be also studied.

#### FOV 13x15 cm

Covers the entire maxillofacial region.

### Multilayer pan

The OP300 multilayer panoramic option provides five panoramic images with only one scan. This enables forgiving patient positioning and reduces retake exposures. Multilayer images are achieved in the same scanning time and dose as the traditional panoramic scan.



Optional

### Available resolutions

For all FOV sizes it is possible to choose between three resolutions. 5 x 5 cm FOV includes also endo mode for accuracy needed in endodontics.

#### Low dose scan

can be utilized in dose sensitive cases and control or follow-up situations where lower resolution is acceptable

#### Standard scan

with optimized patient dose can be used for general diagnostics

#### High resolution scan

offers extremely sharp images for more detailed diagnosis

#### Endo scan

85 µm voxel size with MAR tool specially designed for endodontic applications