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1. PRODUCT IDENTITY AND POSITIONNING

Name Logo

Unit design

Commercial designation «The New IMAX generation »





Main competitors advantages				
1- Design light and elegant	 Drive a new generation of wall mounted Panoramic units, Practice valorization to patients, The lightest unit on the market, Only a wall to fix the unit as an Intra-oral Xray generator. 			
2- Image quality with a full range of programs	 Patient positionning face-to-face, Control panel software intuitive and very fast to perform, Enhancement filters and imaging tool directly included in the new designed control software. 			
3- Easy and fast practice installation	 Compact and Light delivered in one solo packaging, Exclusive Easy-To-Instal system: the unit is delivered entirely amounted, with an "intelligent" system to fix it directly on the wall by one technician, High level of electronic optimization, only 1 PCBoard: service intervention easy to fix the default, Unit fully controlled remotly. 			
4- A controlled budget	 Unit industrially optimised, A minimal Installation cost, economical shipment, A failure rate largely reduced, The best ratio Investment/Performance of the market. 			

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2. TECHNICAL CHARACTERISTICS

General features		
Manufacturer	OWANDY RADIOLOGY	
	77183 Croissy-Beaubourg, France	
Class	Class II B for European Directive for Medical Devices 93/42	
	Class II for Canadian MDR	
	Class I with type B applied parts	
	Class II according to 21CFR-subchapter J (for 110-120V version)	
Protection degree	IPX0 standard device	
Rated line voltage	220-240 V~ 110-120 V~	
Line frequency	50/60Hz	
Maximum line current	3,5 A @ 230 V~ 50/60 Hz	
Power consumption	1.6 kVA @ 230 V~ 50/60 Hz	
Line apparent resistance	0.5 Ωmax	
Line voltage regulation	< 3 % at 99 V~	
Rated output voltage (kVp)	$60 \div 70 \text{ kV}_{p}$, with 2 kV _p steps	
Anodic current	2 ÷ 7.1 mA, according to r20 scale	
Mechanical characteristics		
Focus-receptor distance	50cm (20")	
Telescopic motorized column run	66cm (26")	
Maximum total height	218cm (86")	
Weight (complete unit, wall mounted version)	62kg	
Weight of optional unit support	6kg	
Working conditions		
Minimum room size	120x120cm (47.2"x47.2")	
Recommended room size	120x140cm (47.2"x55.1")	
Unit footprint dimensions (mm)	1107(wall side)x953mm = 1m²	
Maximum working temperature range	+ 10° ÷ + 40°	
Relative working humidity (RH) range	30% ÷ 75%	
Temperature range for transport and storing	- 20° ÷ + 70°	
Humidity range for transport and storing	< 95% without condense	
Minimum atmospheric pressure for transport and storing	630 hPa	



3. SENSORS AND XRAY GENERATOR CHARACTERISTICS

Tube-head features		
Model	MP 05	
Manufacturer	V.S.M. S.p.A.	
	20090 Buccinasco (MI) Italia	
Maximum tube voltage with accuracy	70 kV _p ± 8 %	
Maximum anodic current with accuracy	7 mA ± 10 %	
Duty cycle	1:16	
Nominal power	490 W (70 kV _p - 7 mA)	
Total filtration	2mm Al eq. @ 70 kV _p	
HVL (Half value layer)	> 2.5mm Al eq. @ 70 kV _p	
Transformer insulation	Oil bath	
Cooling	By convection	
Leakage radiation at 1 m	< 0.5 mGy/h @ 70 kV _p - 7 mA - 3 s duty cycle 1/16	
X-ray tube features		
Manufacturer	Toshiba (Japan)	
Туре	D-058	
Nominal focus size	0.5 EN 60336	
Inherent filtration	1.0mm Al eq.	
Anode tilt	15.5°	
Anode material	Tungsten	
Nominal maximum voltage	70 kV _p	
Filament max current	3 A	
Filament max voltage	3.6 V	
Anode thermal capacity	13 J	
Digital Sensor features		
Sensible area (H x L)	PAN sensor: 146 x 6 mm	
Sensor pixel dimensions	48x48µm	
Pixel (H)	PAN: 1536	
Laser centering devices		

2 laser beams are used for patient positioning. Beams align mid Sagittal and Frankfurt planes. Class 2 laser product according to IEC Standard 60825-1:2007.

Wave length	650 nm ± 10 nm
Divergence	< 2.0 mRad
Optical power on the working surface	< 1 mW

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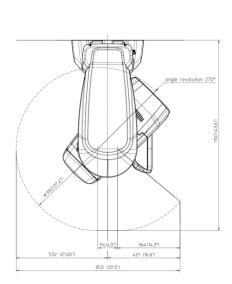


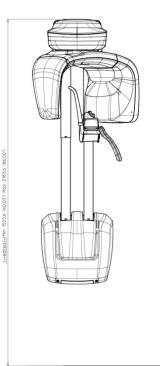
Product launch documentation - EN

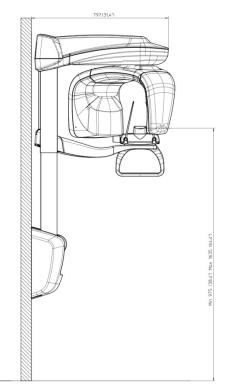
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4. UNITS VERSION AND DIMENSIONS

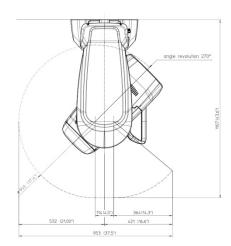
Wall mounted unit

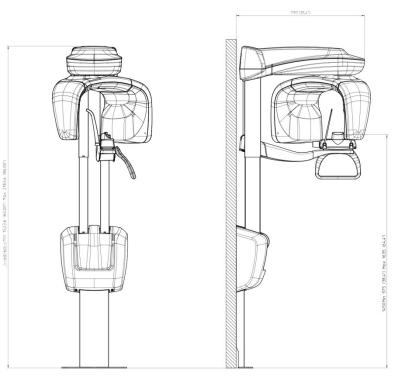






Simple foot version unit



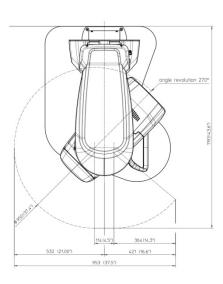


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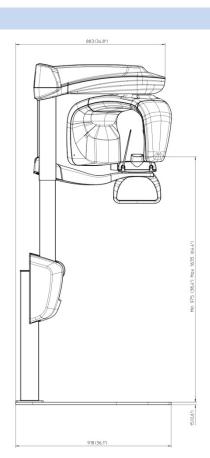


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Floor mounted version unit





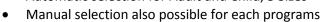


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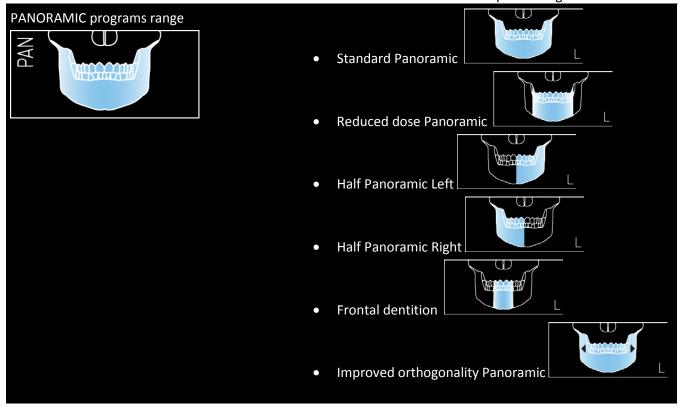


5. EXAMINATION MODES

Exposure times		
Panoramic (PAN)	14.4 s PAN Adult / Child	
EmiPanoramic	7.4 s Adult / 7.3 s Child	
Improved orthogonality Panoramic	11.9 s Adult / Child	
Reduced dose Panoramic	11.4 s Adult / Child	
Frontal Dentition	4.4 s Adult / Child	
TMJ mouth closed/open	2.44 s per image for left and right joint in open and closed condition, total of 9.7 s	
Sinus P/A projection	9.4 s	
Image magnification		
Adult / Child standard Panoramic	1 : 1.23 (constant over dentition part)	
TMJ open/closed mouth, 4 images	1 : 1.20 (nominal)	
Sinus	1 : 1.22 (nominal)	
Programs		
Examination selection type	• Automatic selection for Adult and Child, 3 Sizes	

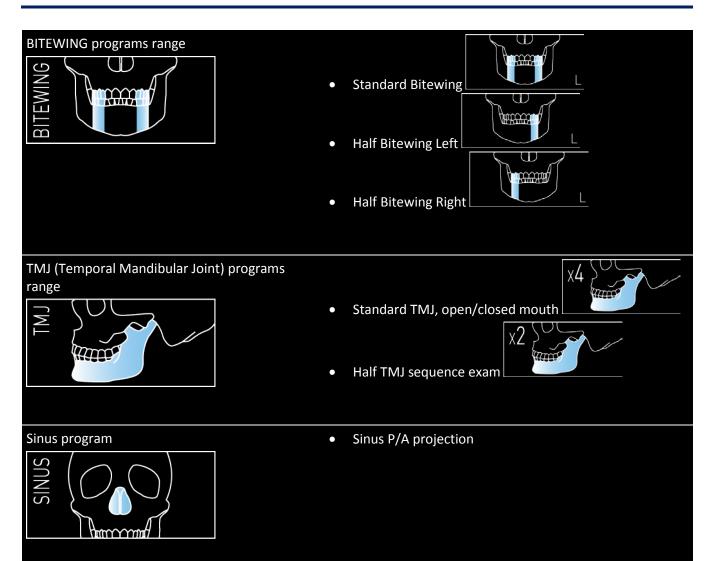


• Collimator with automatic positioning



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6. NEW USER SOFTWARE INTERFACE

Main settings window: default exam selected automatically.





Main window with complete program selection menu, in extended view.

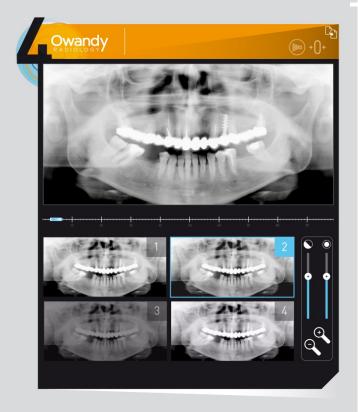
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Main window with the image live preview.

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►

Optional window with image preset filtered views. Some tool and enhancement filter can be adjustable to modify the image before forwarding it to the dental practice management software linked.

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