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ProX

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The premium
intraoral X-ray unit...

ProX Intraoral X-ray

PLANMECA is proud to introduce a new intraoral X-ray unit to its comprehensive collection of imaging products- the ProX.

This advanced unit provides easy and precise positioning, a simple easy-to-use procedure, and high-quality, high-resolution images. The unique design concept of PLANMECA's ProX makes intraoral imaging easier and more reliable than ever.

- Optimal images for all diagnostic needs: variable kV and mA
- Quick and easy to use: pre-programmed quick settings, practical design
- Digital-ready
- Integrates cleanly with PLANMECA ProSensor system
- Perfect workflow with PLANMECA Romexis
- Versatile installation options

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Superior imaging...







Optimal images for all diagnostic needs

Advanced technology and practical design make PLANMECA's ProX a premium choice for intraoral imaging. The freely selectable exposure parameters (kV, mA and exposure time) maximize the diagnostic value of intraoral radiography. The focal spot size of the X-ray tube is 0.4 mm, which ensures optimal resolution and clear images.

PLANMECA's ProX provides options that assure the best image contrast and density for every diagnostic need and anatomical condition, enabled by variable kilovolts (50–70 kV) and milliamperes (2–8 mA).

50 kV: Low kV settings result in high-contrast images that are useful for endodontics, apex, and bone structure diagnostics.

60 kV: Medium kV settings provide a wide grayscale for general diagnostics when a wide range of clinical information is required.

70 kV: High kV settings produce images with a long grayscale spectrum, which is useful in the detection of caries and periodontal diagnostics

Reduced radiation

The high-frequency operation of the ProX's constant potential X-ray generator provides significant advantages:

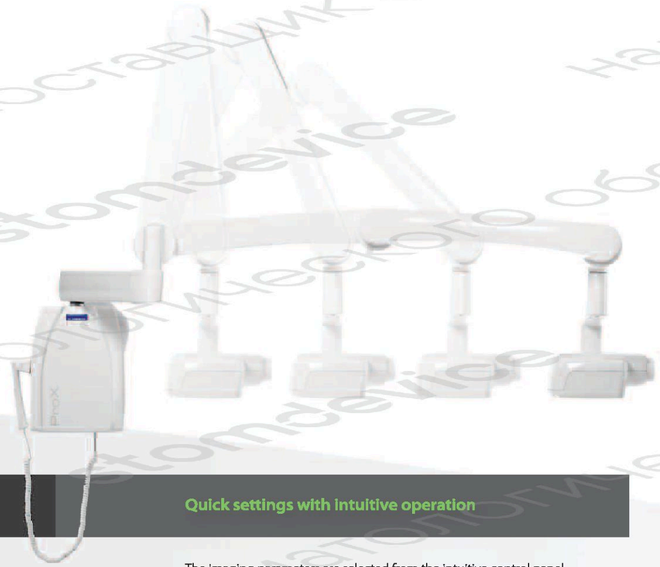
- Reduced radiation dose by up to 25% when compared to conventional AC generators
- Quality, uniform image contrast
- Improved reliability and prolonged lifespan of the X-ray tube

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Ease
of use...



Ergonomic design for easy imaging

The unique design of the X-ray tube head makes aiming exceptionally easy and precise. Both short cone (20 cm SSD) and long cone (30 cm SSD) imaging techniques can be used, and an additional rectangular collimator can be adapted to the long cone for improved accuracy and localization of radiation to the patient. The steady arm provides smooth and precise movements, ensuring drift-free and accurate positioning of the lightweight tube head.

Quick settings with intuitive operation

The imaging parameters are selected from the intuitive control panel. The unit is pre-programmed with 66 quick settings of different exposure value combinations, and imaging parameters are automatically retrieved according to the selected exposure region and the diagnostic need:

- Periapical imaging
- Upper and lower occlusal plane imaging
- Bitewing imaging
- Endodontic imaging.

The control panel displays the selected values, which can be manually adjusted if needed. There are distinct optimally adjusted settings for adults and children. Altered settings can also be saved into the quick setting memory.



Easy imaging mode selection and self-diagnostic system

PLANMECA's ProX offers a smart control for maintaining constant darkness of radiographs whenever imaging conditions change. The unit has 11 density steps that adjust all quick settings when changing the film type or switching between the short and long cone. The selection of the imaging mode allows a rapid transformation of all pre-programmed settings when changing to a new image receptor type. There are predefined imaging modes for film, imaging plate, and digital sensor, which allows a quick and hassle-free transition to new imaging technologies without any reprogramming.

The unit's self-diagnostic control system monitors all functions and displays error messages in the case of abnormal operation; this assists in the correct use of the unit and speeds up technical service.

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Image
ready...

Integrated control electronics for digital sensors

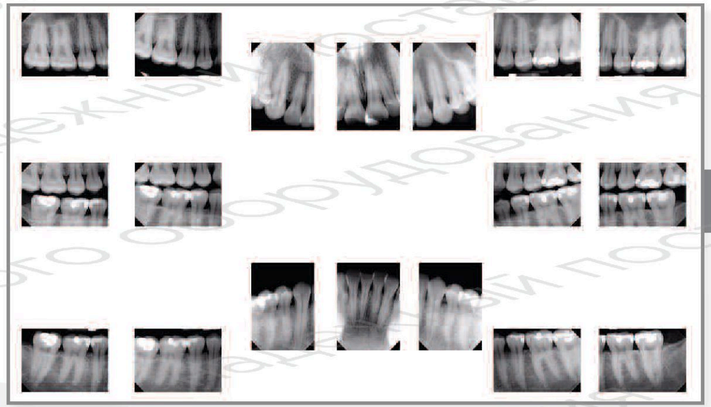
The PLANMECA ProSensor digital intraoral X-ray imaging system supports the workflow of dental treatment. A simple selection of the ProX image mode (film, phosphor plates, or digital) automatically adapts the pre-programmed settings for digital sensors.

The ProX works with PLANMECA's ProSensor digital sensor system for ultimate user-friendliness:

- User can easily position the sensor into patient's mouth with the sensor holder.
- The PLANMECA ProSensor interconnection cable is routed inside the X-ray unit arm, which results in a clear and clean working area with no interfering cables.

To guarantee a smooth workflow, the PLANMECA ProX has integrated-control electronics and a magnetic connector for Planmeca ProSensor intraoral sensors; this ensures that the ProSensor is always in the right place and within easy reach. All the components of the imaging system – the sensor, the control box, and the PC – can be optimally placed in the treatment environment.





Full mouth series customization and support

After the exposure, the image is displayed on the screen within seconds, dramatically shortening the time needed for an intraoral X-ray examination when compared to imaging plates or conventional film.



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ProX Technical Specifications

Generator	Constant potential, microprocessor controlled, operating frequency 66 kHz
X-ray tube	Toshiba D-041SB
Focal spot size	0.4 mm according to IEC 60336
Cone diameter	60 mm (2.36 in.) Rectangular 33 x 43 mm (1.30 x 1.69 in.)
Max. symmetrical radiation field	Ø60 mm at SSD 200 mm Ø60 mm at SSD 300 mm according to IEC 806
Total filtration	min. 2.5 mm Al equivalent at 70 kV according to IEC 60522
Anode voltage	7 mA: 50, 52, 55, 57, 60 kV, ±2 kV 2–6 mA: 50, 52, 55, 57, 60, 63, 66, 70 kV, ±2 kV
Exposure times	0.01–2 sec. ±(5% + 0.001 sec.), 24 steps
SSD (Source-Skin Distance) Standard/Long	200 mm (8 in.)/300 mm (12 in.)
Mains voltage	100 V~/110-115 V~/220-240 V~, 50/60 Hz
Duty cycle	1:30, automatic control
Electrical classification	Class I Type B
Weight	total 29 kg (64 lbs) tube head with standard cone 4.2 kg (9.3 lbs) tube head with long cone 4.5 kg (10 lbs)
Color	White (RAL 9016)

ProSensor Specifications

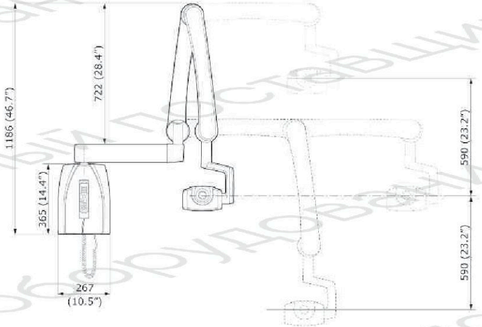
	Size 0	Size 1	Size 2
Sensor type	CMOS with Scintillator	CMOS with Scintillator	CMOS with Scintillator
Sensor Size	33.6 x 23.4 mm (1.33 x .92 in.)	39.7 x 25.1 mm (1.56 x 0.99 in.)	44.1 x 30.4 mm (1.76 x 1.2 in.)
Active Area	25.5 x 18.9 mm (1.0 x 0.74 in.)	31.5 x 20.7 mm (1.24 x 0.81 in.)	36 x 26.1 mm (1.42 x 1.03 in.)
Physical pixel size	15µm x 15µm		
Theoretical Resolution	33 lp/mm		
Resolution	17 lp/mm		
Pixel size	30 µm		
Interface	USB or Ethernet		

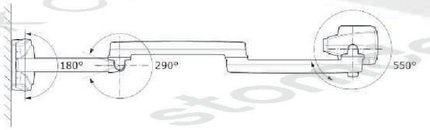
Mounting height from floor:

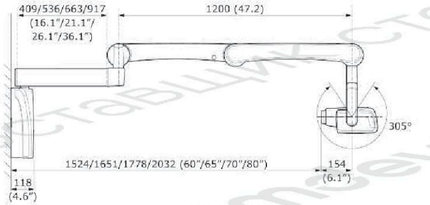
Recommended: 990 mm (39")

Minimum Requirement: 790 mm (31")

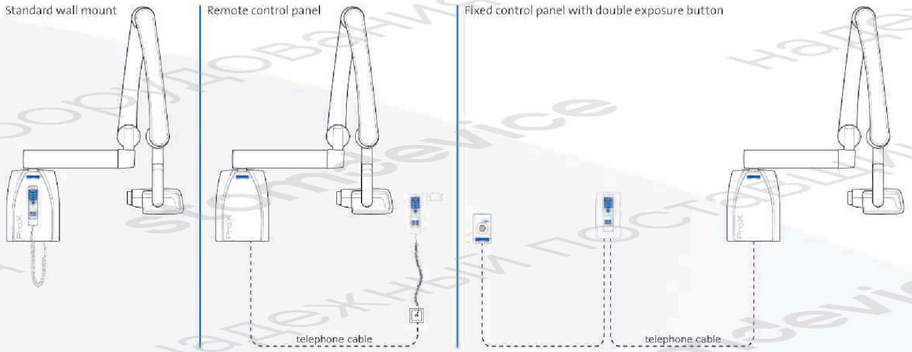
Dimensions







Installation options



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