

xgenus®

xgenus®dc

Classification: Electromedical equipment

Class 1, type B

Line voltage: 220V / 230V / 240V / 115 V

Frequency: 50 / 60 Hz

Absorbed power: 0,8 kVA

Anodic voltage: 70 kV

Anodic current: 8 mA

Focal spot: 0,7

Source-skin distance (SSD): 31 cm (12" inch)

20 cm (8" inch)(optional)

Total filtration: 2 mm Al eq at 70 kV

Irradiated field: $\phi < 60$ mm or 35 x 44 mm rectangular

Radiation leakage: $< 0,25$ mGy/h at 1 m

Duty cycle: 1 s : 32s

Timer: 0,08 - 3,2 s

X-ray emission: exposure button "dead man" type

Weight: 24 kg

Certification: CE 0434

Classification: Electromedical equipment

Class 1, type B

Line voltage: 230V / 115V

Frequency: 50 / 60 Hz

Absorbed power: 1 kVA

Anodic voltage: 60 kV - 70 kV

Anodic current: 4 mA - 8 mA

Focal spot: 0,7

Source-skin distance (SSD): 31 cm (12" inch)

20 cm (8" inch)(optional)

Total filtration: 2 mm Al eq at 70 kV

Irradiated field: $\phi < 60$ mm or 35 x 44 mm rectangular

Radiation leakage: $< 0,25$ mGy/h at 1 m

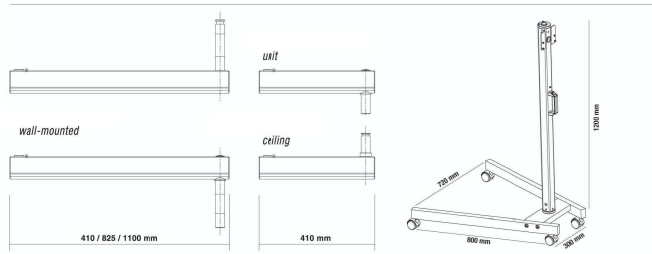
Duty cycle: 1 s : 32s

Timer: 0,02 - 3,2 s

X-ray emission: exposure button "dead man" type

Weight: 19,5 kg

Certification: CE 0434



xgenus®



Protection



The X-ray tubes of **xgenus®** devices are located right at the back of the tubehead, ensuring better protection of the patient, **thanks to a 50% greater source-skin distance than traditional system configurations.** Both the filtering process (equivalent to 2 mm Al at 70kV) and the excellent control of radiation leakage (less than 0.25 mGy/h at 1 meter), contribute to the protection of the practitioner and his/her assistant (total filtering is equal to 2 mm Al at 70 kV).

The control button, incorporating a security timer system determined by a microprocessor, guarantees that the dose of radiation administered to the patient remains constant. **This technology avoids any repetition of errors due to under or over exposure, from the very first time it is set up.**

Movement



The pantograph arm of the **xgenus®** range of products ensures highly functional movement together with very precise positioning.

The new mechanism, in light alloy, incorporates smooth lines and protective carters.

Furthermore it is easy to maintain and disinfect, in line with the strictest demands on asepsis.

Three different versions of bracket are available (wall mount types): 41cm (16,2"), 82,5 cm (32,5") e 110 cm (43,5"), offering respective lengths of 143 cm, 184 cm and 212 cm (with long cone).

Intelligence



New control systems mean that **xgenus®** and **xgenus®dc** are totally safe to use: automatic diagnosis of the elements on the control panel at all times, checking of the electrical parameters through the timer and automatic compensation of exposure according to fluctuations in line voltage, granting a high quality and safe performance every time.

Even if programming is changed during the production process, **all the exposures can be personalized or restored; moreover, the timer is able to pass directly from films to sensors**, in order to best meet the requirements and demands of the dentist (the saved parameters can easily be restored at any time).



DE GÖTZEN® S.R.L.
Via Roma 45 - 21157 Ogiate (Como) (VA) - Italy
Tel +39 0331.376760 - Fax +39 0331.376763
www.degoutzen.com - email degoutzen@degoutzen.com

deGötzen®

Reliability



The **xgenus®** and **xgenus®dc** generators are esteemed for their reliability and precision.

Designed in one piece, and made from light alloy, the generators have been built in conformity with the "double chamber" technique: inside the first compartment there is the X-ray tube with dielectric oil (temperature control and high electrical insulation coefficient); inside the second one we can find the electronic components.

Ergonomics



The patented timer incorporates new technology able to recognize automatically the type of generator connected and then to **control an xgenus® or an xgenus®dc, with their respective control options** (the **xgenus®** timer can be simultaneously connected to two **xgenus®** and/or **xgenus®dc** generators).

Thanks to the pictograms and the layout of the control buttons, programming is extremely intelligent. The special set up can be easily managed and the exposures personalized and programmed.

Rapidity



The firmware of the electronics, compatible with both generators, allows exposures and radiation absorption to be kept to a minimum.

Thanks to the digital pictograms, exposure can easily be identified on the control panel.

(From 0,020 a 3,200 sec. in 23 progressions for **xgenus® dc**).

The employment of digital sensors means that exposures can be reduced by 75%, compared to films.

The exposures for the **xgenus®** model are optimized by the use of new generation films (type "F"), compatible with certain digital sensors (from 0.080 to 3.200 sec., 17 increments).

The employment of type "F" films allows reduction of radiation by 60% compared to the type "D" films.

xgenus® dc

The new generator **xgenus®dc** is equipped with an X-ray tube (intensity from 4 to 8 mA) producing a constant voltage of 60 kV or 70 kV. It works at high frequencies, at a constant electric potential, allowing the emission of high quality X-rays, in any conditions.

The choice of the voltage, (60 or 70 kV) and of the anodic current (4 or 8 mA) allows optimization of the diagnosis for intra-oral set-up, with an exposure reduction equal to **35% compared to the monophasic technology devices.**

The timer is able to control up to 2 **xgenus®dc** generators.

The short exposure times (minimum 0.020 sec.) are perfect for the digital radiology with CCD, CMOS, or phosphoric sensors (the radiations are 50% lower than those used with the type "E" film).



xgenus®

The new **xgenus®** generator is equipped with a monophasic X-ray tube, with an independent auto-regulation system producing an high voltage of 70 kV, with an ideal intensity of 8 mA. For better precision, the high intensity radiation is concentrated in a focal spot with a 0.7 mm diameter. In the standard long-cone set-up, the generator perfectly suits the parallel technique (also available are short code and rectangular cone options).

The new timer is set for use with "D", "E", or "F" films.

Can be spaced apart and is able to control one or two X-rays, for any technology:

xgenus® + xgenus® or xgenus®+ xgenus®dc;

versatility makes the xgenus® system unique, offering probably the best flexibility for intra-oral X-ray.

