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## SEDECAL

Pelaya, 9 - Polígono Industrial "Río de Janeiro"  
28110 - Algete (Madrid) - SPAIN

### Central Offices:

Tel: (34) 91 - 628 05 44 / 91 - 628 15 92

Fax: (34) 91 - 628 05 74

Email: [marketing@sedecal.com](mailto:marketing@sedecal.com)

### Factory:

Tel: (34) 91 - 629 07 21

Fax: (34) 91 - 629 07 83

Email: [manufacturing@sedecal.com](mailto:manufacturing@sedecal.com)

## Sedecal USA Inc

2920 N. Arlington Heights Road  
Arlington Heights, Illinois 60004 - USA

Tel: 1 (847) 394 - 6960

Fax: 1 (847) 394 - 6966

Email: [sales@sedecalusa.com](mailto:sales@sedecalusa.com)

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**VETERINARY Division**

# Portable X ray Unit



## SP-HF-VET 2.0/4.0

Convenient and safe transportation in any working environment is ensured. A Rolling Case with telescopic handle is included with the equipment.



maximum range 4kW Power  
110 kV  
100 mA  
300 kHz  
0.6 mm / 1.5 mm

Exposure time is continuously calculated and can be easily displayed.

This high performance equipment is based on the following principle: for any combination of kV and mAs the portable always uses the maximum mA value with the minimum Exposure Time. The exposure parameters are automatically optimized.

The intelligent software automatically chooses the Focal Spot to apply based on the exposure parameters selected by the operator. Manual selection of Small and Large Focal Spot is also available for those cases in which it is needed.

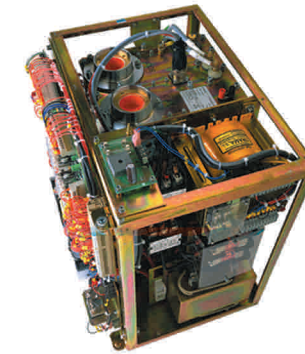
**.. and perhaps, the most important feature is that this is the only Equipment in the Market with Automatic Power Regulation from 90 to 285 Volts (AC)**

# High Frequency X-ray Genetors for Veterinary applications

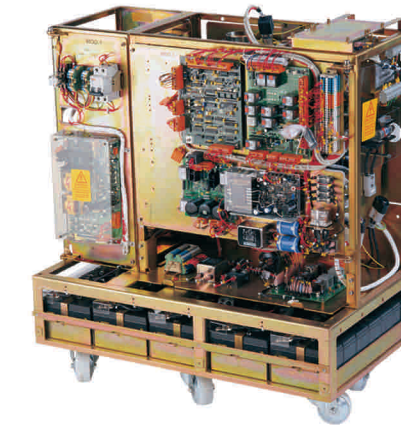
All non portable X-ray units manufactured by SEDECAL have a common core for the optimum performance of all X-ray Systems – The X-Ray Generator.

Microprocessor based High Frequency Generator.  
The best performance and quality in an incredible size:

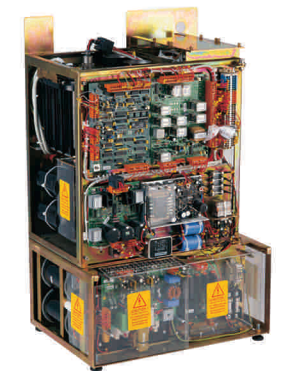
CAPACITOR ASSISTED Generator  
The best solution for locations with a limited/ weak Power line, or with an unsteady voltage.



➤ LINE POWERED



➤ BATTERY POWERED



➤ CAPACITOR ASSISTED

| SPECIFICATIONS                   | LINE POWERED                                    | BATTERY POWERED                    | CAPACITOR ASSISTED       |
|----------------------------------|---|------------------------------------|--------------------------|
| Anatomical Programmer            | 330 views                                       | 330 views                          | 330 views                |
| AEC (Automatic Exposure Control) | Optional  | Optional                           | Optional                 |
| Fluoro Options                   | Optional  | Optional                           | Optional                 |
| Power range (adjustable)         | 16/20/32 kW (1)                                 | 32 kW (2)                          | 16/20/32 kW (2)          |
| Anode maximum Voltage            | 125/150 kV                                      | 125/150 kV                         | 125/150kV                |
| Maximum Current                  | 400 mA  | 400 mA                             | 400 mA                   |
| Exposure Time                    | 1 msec. - 10 seconds                            | 1 msec. - 10 seconds               | 1 msec. - 10 seconds     |
| Line Voltage range and Phases    | 110/230 Vca-single phase<br>400 Vca-three phase | 110/230 Vca-single phase           | 110/230 Vca-single phase |
| Line power requirement           | depend on the output power                      | 500 w (*) (X-Ray Tube + generator) | 2.200 w (*)              |
| Weight                           | 65 kg   | 235 kg                             | 108 kg                   |
| Dimensions                       | 568 x 445 x 360 mm                              | 948 x 813 x 436 mm                 | 790 x 500 x 360 mm       |

(1) 40, 50, 64 and 80 kW power levels available on request.  
(2) 40 and 50 kW power levels available on request.

(\*) For all power output level

## X-ray Systems for the Veterinary Clinic

### ► VARIABLE FOCAL DISTANCE + SLIDING COLUMN PREMIUM VET



The Variable Focal Distance System, equipped with a Sliding Column allows the user to operate in a wider range for oblique examinations and horizontal beam imaging.

## X-ray System for Large Animals



General View of the X-ray room for Large Animals



- Extremely light design (aluminium and high precision mechanics applied).
- Extraordinary smooth movements in all directions and angles for fast and accurate system positioning.
- Wide horizontal and vertical travel.



## Portable X ray Unit

SP-HF-VET + SUPR - C

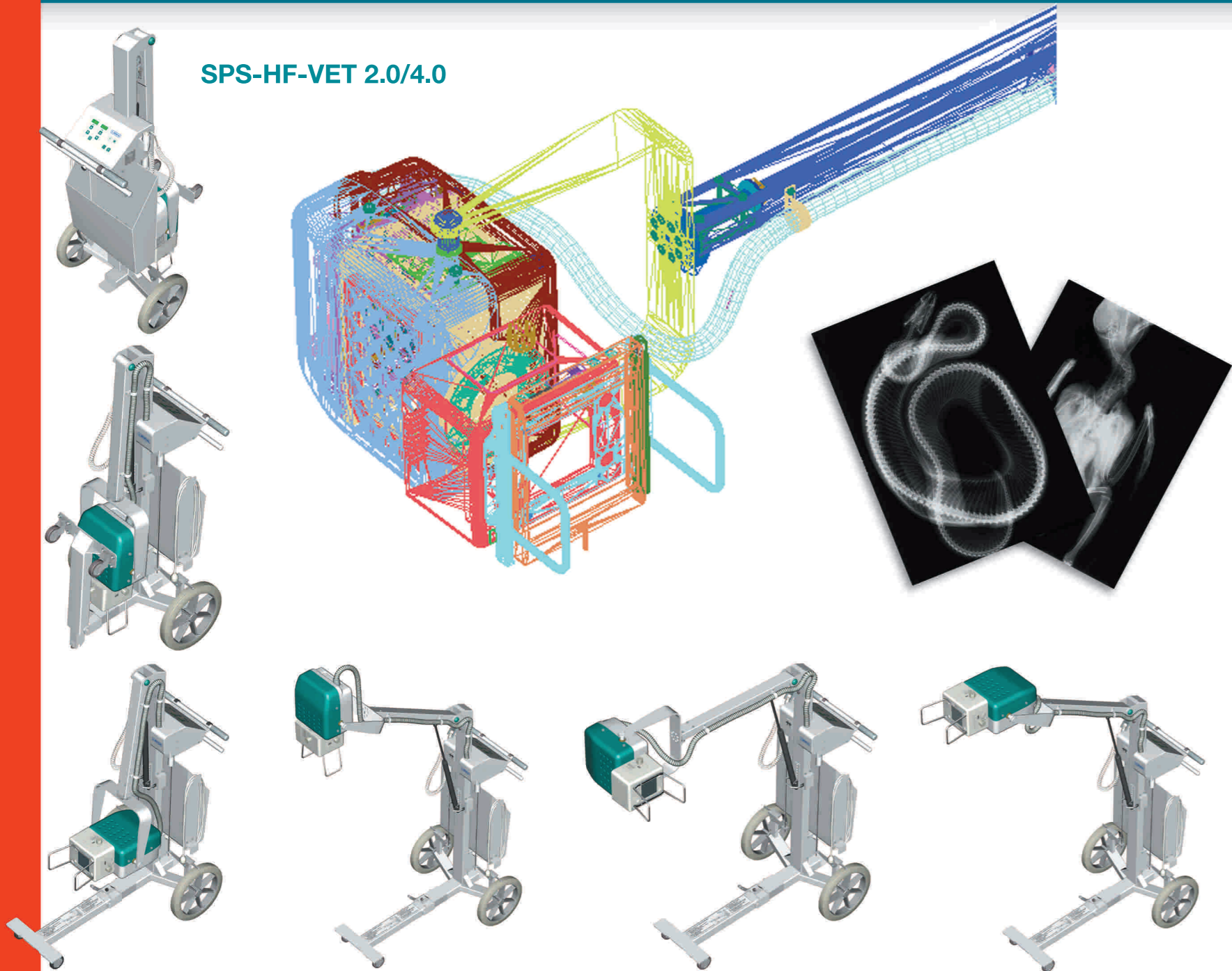


*The Collapsible Stand with Articulated Arm makes this Portable X-ray Unit the best choice for Veterinary Use - small animals.*

*The articulating arm can be attached at three different height positions, which allows standing exposures (horses and small animals).*

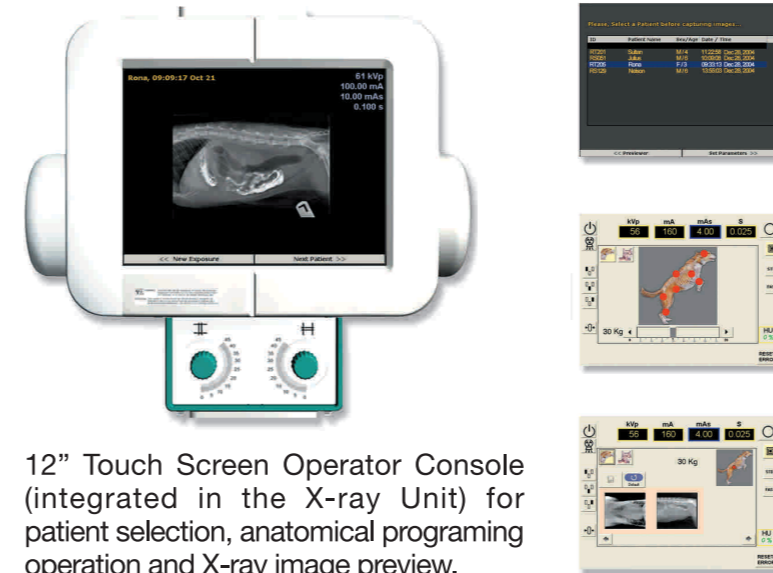


SPS-HF-VET 2.0/4.0



# Digital-Vet

X-ray Image ready in just 6 seconds after X-ray exposure!

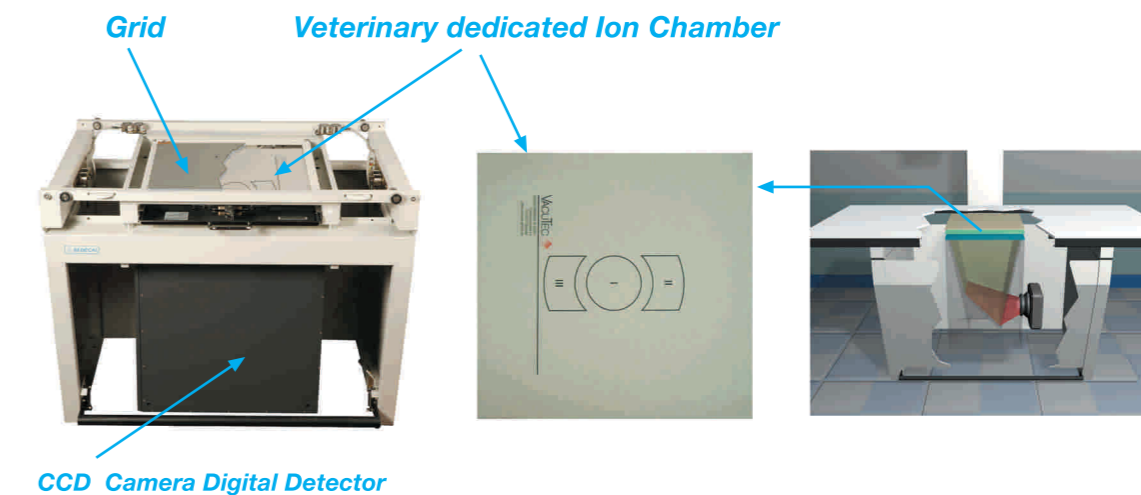


12" Touch Screen Operator Console (integrated in the X-ray Unit) for patient selection, anatomical programming operation and X-ray image preview.



The following equipment is used to provide the High Quality Digital Image: Direct Digital Detector (High Definition CCD Camera) + High performance X-ray System (High Power and High Frequency generator) + Rotating Anode X-ray Tube with High Resolution focal spots (0.3/1.0 mm) + High Resolution Monitor + Professional PC

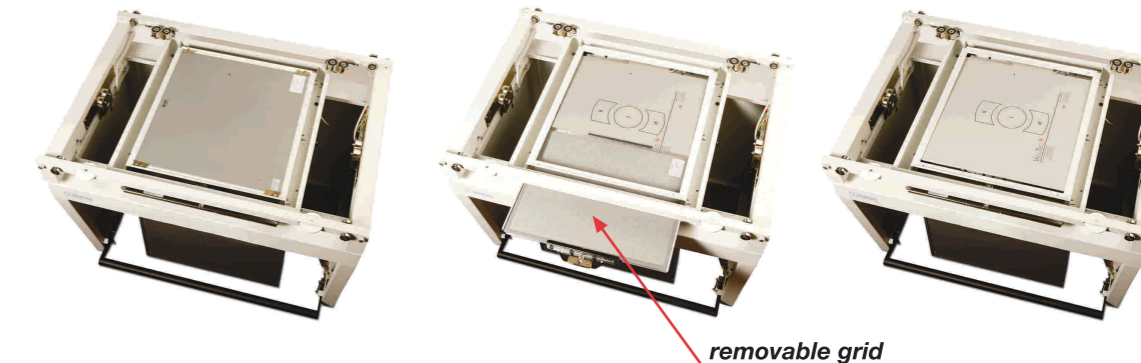
## VET TABLE INTERNAL STRUCTURE



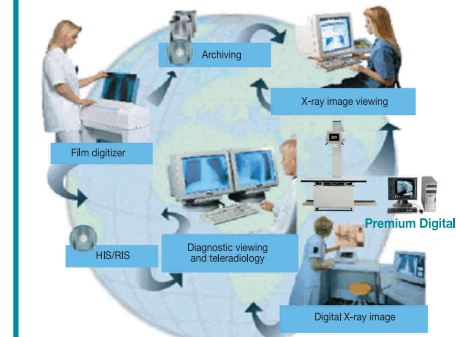
## DUAL FUNCTION

examinations WITH GRID (for general purpose)

... and WITHOUT GRID, that improves the image quality for the examinations of the animal extremities



## Network Compatibility



DICOM 3.0 compliance allows for integration of the Digital-Vet system with other DICOM applications including PACS, RIS, reading stations and laser printers.

## ▶ VARIABLE FOCAL DISTANCE

### SYSTEM V1

**Variable Focal Distance Systems created by SEDECAL allows:**

**1. Selection of Focal Distance (SID) from 30 to 120 cm (11.8 - 47.2)"**

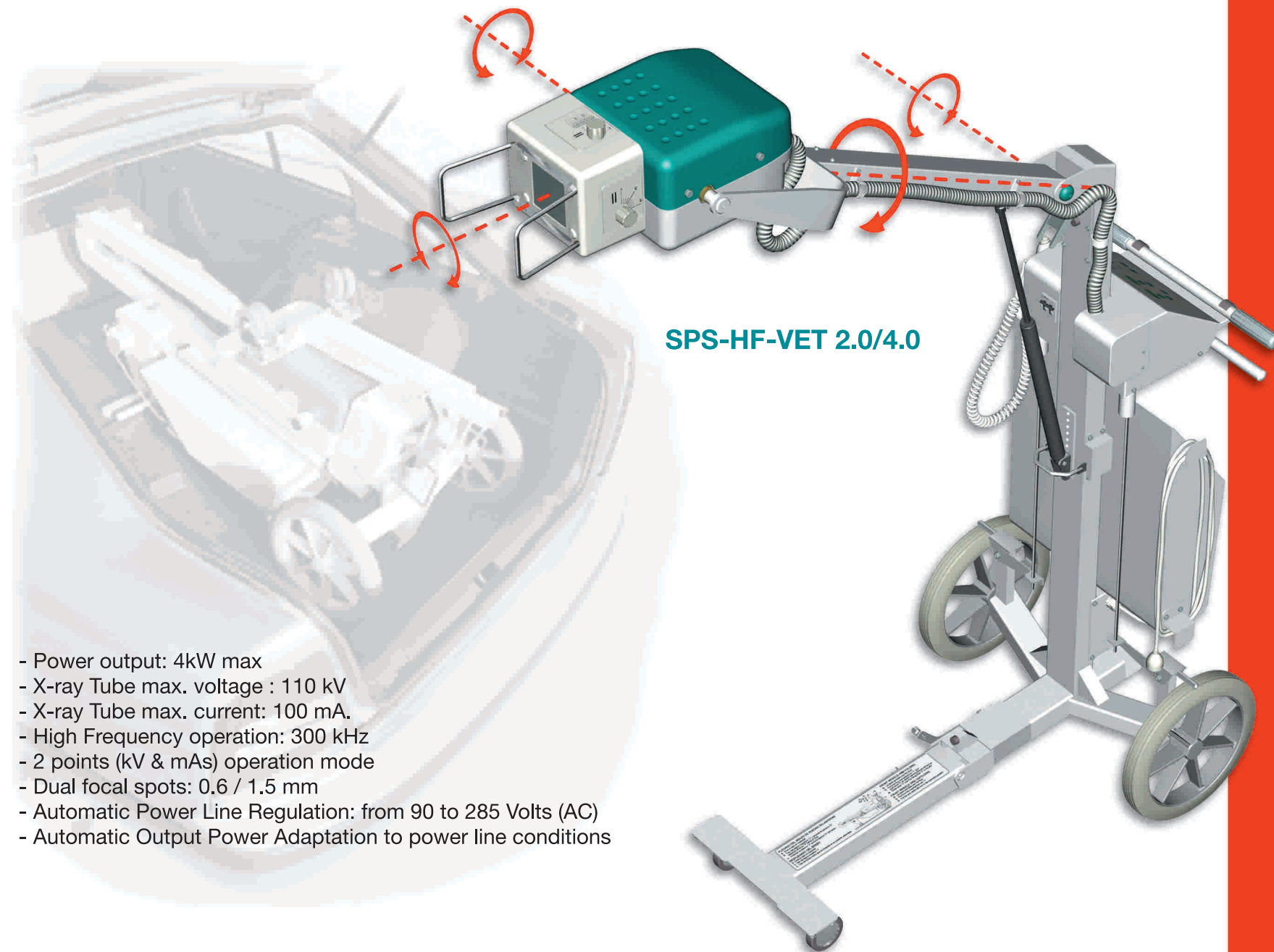
This feature provides maximum exposure definition for the anatomical part to be examined.

An extra feature not available on Systems with Fixed Focal Distance.

**2. X-ray Tube rotation +90°/-90°.** Many different exposure positions, oblique or even horizontal beam exposures (perpendicular to a standing animal body)

Floating Table-top.  
Motion in two directions

High Frequency generator located inside optimizing space in room.



**SPS-HF-VET 2.0/4.0**

- Power output: 4kW max
- X-ray Tube max. voltage : 110 kV
- X-ray Tube max. current: 100 mA.
- High Frequency operation: 300 kHz
- 2 points (kV & mAs) operation mode
- Dual focal spots: 0.6 / 1.5 mm
- Automatic Power Line Regulation: from 90 to 285 Volts (AC)
- Automatic Output Power Adaptation to power line conditions

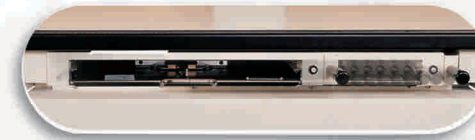
## ▶ FIXED FOCAL DISTANCE



SYSTEM F2



SYSTEM F1

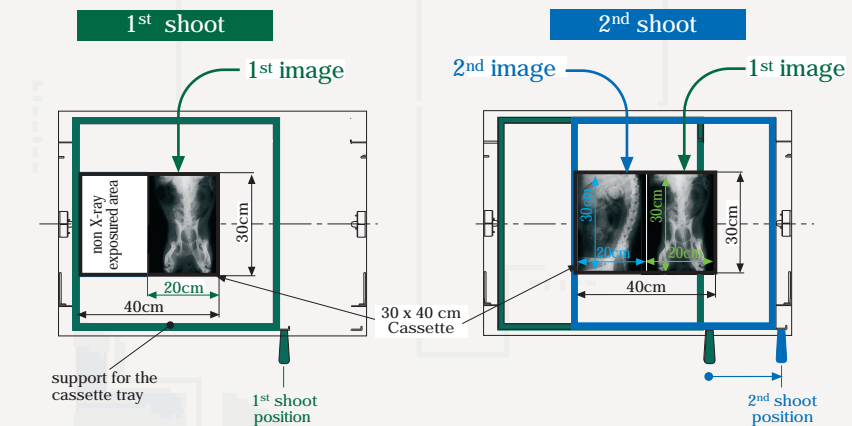


By simply moving of the Cassette Film Tray position, two different images can be obtained in the same film.

For example, for a 30 x 40 cm (12 x 16)" film size the following exposure layouts are available:

- longitudinal axis - 2 x (15 x 40 cm) (6 x 16)" exposures can be performed in the same film
- transversal axis - 2 x (20 x 30 cm) (8 x 12)" exposures can be performed in the same film

TWO consecutive Exposures over the same 30 x 40 cm film = TWO 20 x 30cm different IMAGES in the same film



- ... more than 300 anatomical views (Anatomical Animal Program)
- A.E.C Option (Automatic Exposure Control)
- Fluoro Option
- Operation mode: 1, 2 or 3 points
- 3 types of film sensitivity
- Two focus: 1 and 2 mm,
- ... and much more