

# MEDEX LONCIN S.A.: A SOLID KNOW-HOW OVER 40 YEARS

## Certificates

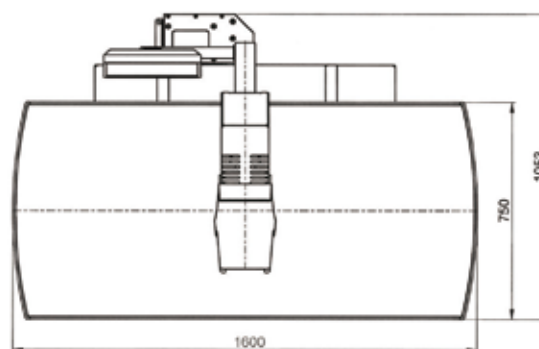
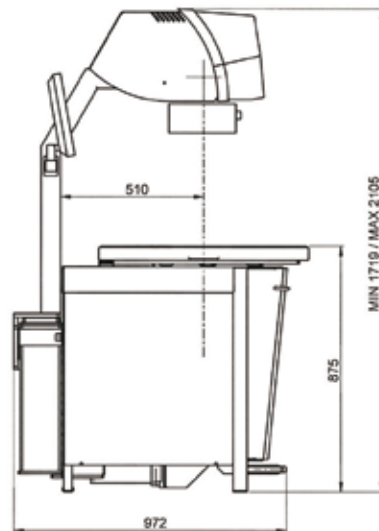
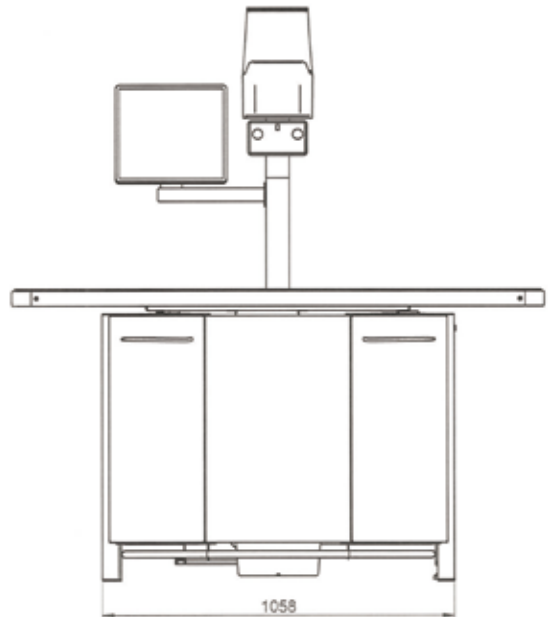
The design and production at MEDEX Loncin S.A. comply with the most severe standards required for medical devices as IEC 60 601, CE marking.

MEDEX Loncin S.A. holds following certificates:

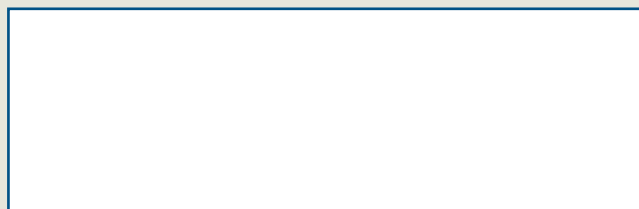
- ISO 9001:2000
- ISO 13485:2003



### TECHNICAL DESCRIPTION



All dimensions in mm



**Manufacturer**  
Rue M Curie  
4431 Loncin  
Belgium  
[www.medex.be](http://www.medex.be)

# DigiveX FP

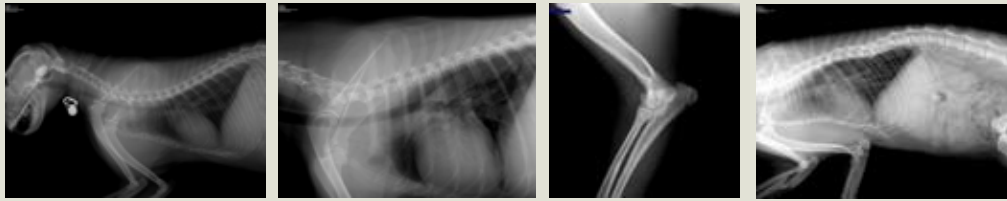


Veterinary Digital Radiography System

**MEDEX**  
Loncin S.A.

MORE THAN 40 YEARS OF EXPERIENCE in medical X-ray applications





## DIGIVEX FP' place in your veterinary life

DIGIVEX is an all-inclusive and compact X-ray imaging system that turns X-ray energy into quick, clear digital images.

DIGIVEX is specifically designed for veterinarians and veterinary clinics, as well as for labs and universities specializing in animal health care.

The table, X-ray generator, image detector and system computer are combined in one efficient device. This new technology provides you a better, faster solution compared to the classical X-ray film or phosphor CR process.



## Benefits in use

DIGIVEX offers what other technologies have not:

- Excellent image quality: sharp, high contrast images
- Direct imaging: no film processing, no developer or fixer chemistry
- Zoom in and zoom out possibilities: 0.5-10 x digitally and 1.6 x geometrically with motorized C-arm
- Fine image due to small X-ray tube focus
- True 300 by 400 mm flat entrance detector
- X-ray dose efficiency
- Software image processing: measurements, grey level adjustments, ...
- 15 kW high frequency generator connected to a standard 16 A line at 230 V
- Image on screen in less than 10 s

## Benefits for the veterinarian

- Better, faster diagnosis as image is available in less than 10 s
- Saves time, as no processing time for X-ray films
- Cost efficient and environmentally friendly process: no film or chemicals required
- Simple process and reproducibility due to removal of chemistry effects
- Less influence of the X-ray values (different X-ray values still give good image results)
- Huge image storage capacity
- Standard DICOM image format

# TECHNICAL DESCRIPTION

## IMAGE DETECTOR

Based on a very sensitive 14 bit flat panel detector, giving a good contrast range  
Flat square 300 by 400 mm entrance detector, no geometrical image distortion  
3200 x 2232 pixels  
3,8 lp/mm without zoom, over 4 lp/mm with zoom  
Image acquisition time less than 10 s

## IMAGE TREATMENT

Based on Windows XP (pro) or Vista (business) operating system  
Edge enhancement  
Geometrical treatment (rotation, mirror images, video reverse...)  
High volume storage (250 Gb hard disk and a second 250 Gb mirror hard disk)  
Image exchange using DICOM 3.0 and also BMP, JPG  
Full compatibility to DICOM viewer  
Zoom: digital 0.5x - 10x  
geometric 1.6x  
Maximum image size 14,391 Mb (less if cropping).

## GENERATOR

15 kW 200 mA at 0.1 s, high frequency inverter

- 15 kW during 0.1 s on the 0.6 focus, then falling load to 5 kW
- 4 kW during 0.4 s on the 0.3 focus, then falling load to 3 kW

Use power supply line 16 A 230 V +/-10%

Friendly user interface:

- kV (from 40 to 120 kV or less than 120 kV if selected by option)  
the mA being automatically chosen to minimize exposure time
- mAs (from 0.5 to 250 mAs accuracy 10%+-0.2 mAs) safety timer set at 2 sec
- small (0.3 mm) or large (0.6 mm) focus
- digital or film acquisition

Parameters can be memorized and recalled by physiological menu  
X-ray tube with anode rotation at 3000 RPM and anode capacity of 150 kJ  
(thermal overload protection by  $\mu$ P)  
All generator parameters are monitored by  $\mu$ P for a high reliability performance  
Manual collimator with light centring

## TABLE

Compact table including generator and imaging system  
Movable table top (2 directions) with electrical brakes

- table top dimension 156 X 75 cm
- longitudinal table top motion 32 cm both directions
- lateral table top motion 8 cm to the rear and 8 cm to the front
- a pedal bar commands the brakes

Flat panel at 87.5 cm from the floor and easy to clean  
Maximum load 80 kg  
Motorized arm for geometrical magnification of max 1.6 x

## OPTIONS

Flat screen monitor and function keys near the table  
DVD-ROM writer  
Printer (Windows or DICOM)  
Ethernet network with other PC or PACS  
Support along the table top panel to hold accessories  
DICOM viewer  
Anti-scattering grid

## SERVICE

Easy to install (only one module, no wall or floor modifications required)  
Easy to adjust (some fine tuning, PC driven)  
Easy to maintain (software diagnostic, tools and error log)  
Possibility of software upgrade through Internet  
Teleservice (through internet)

