

# Digital-Vet System

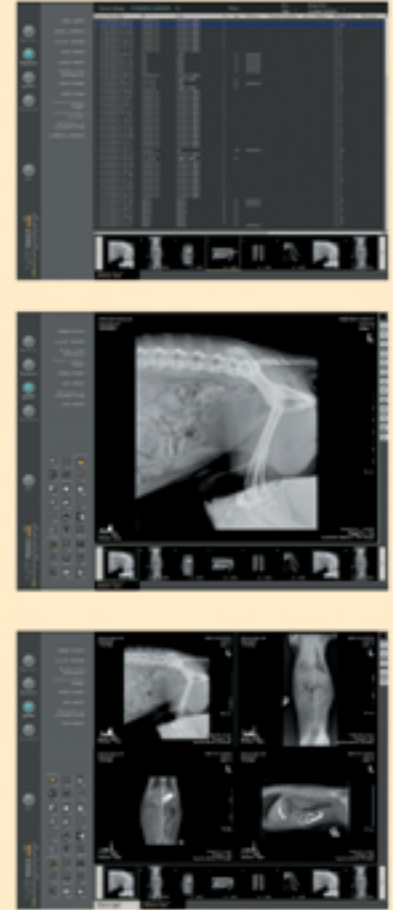
## X-Ray System Digital-Vet



# Digital-Vet System Features



- Touch Screen Operator Console (integrated in X-ray Unit): Color Monitor resolution: 800 x 600
- Workstation specifications:
  - Medical Imaging Professional Monitor: 19" TFT High Resolution Color Monitor (1200 x 1600)
  - Microprocessor unit: Pentium 4 (2.8 Giga Hz)
  - Ram: 1.0 Giga Byte
  - Hard Disk: 80 Giga byte ,7200 RPM; RAID structure
  - Back-up Device: DVD-RW
  - OS: Windows 2000 professional
  - Software: image correction; patient data base management; invert; histogram; measure and edge enhancement tools; window level/width; magnifier; etc.
  - Ethernet network connections
  - DICOM 3 compliance



# Digital Radiography Advantages

Digital imaging gives you a high quality image for diagnostic purposes with one exposure ONLY.



The wide dynamic range of the digital detector allows the user to modify the level and width of the gray scale window, contrast, enhance the detail, and invert the image.

Instant images on the screen - no waiting time - just 6 seconds.



- Eliminates the need for x-ray film.
- No more repeat films - eliminating unnecessary radiation to the patient and the operator.



- No darkroom required.



- No need for a film processor.



- Meets all current environmental requirements.

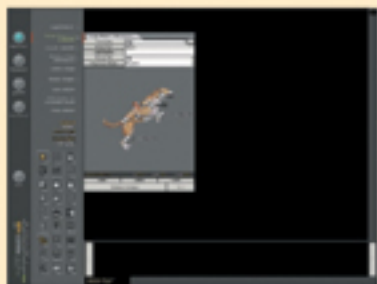


- No chemistry required.



- Capable of sending images via electronic transfer.
- DICOM compatible.



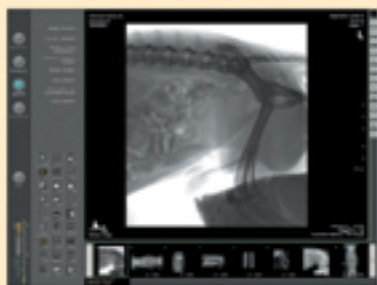


#### DAILY SCHEDULING

DICOM Worklist query allows preloading of scheduled patient information. To select a patient name is only a mouse click away. Patient information can also be entered directly from the workstation.

#### POSITION - EXPOSURE - READY

**Just 6 Seconds after exposure, the image is ready for viewing on the System Control Station.** Here the technologist receives the image and transmits it to designated locations. The available tools for image manipulation and labeling are user friendly.



#### INCREASED THROUGHPUT

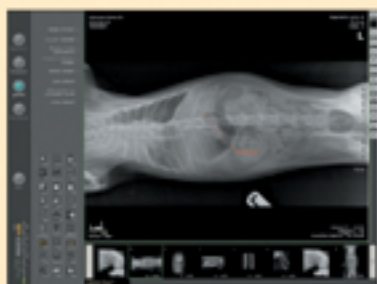
Cassettes, processing and reloading are things of the past. No more cumbersome handling of film, or searching for lost films. The patient can be released as soon as their images are accepted. Overall very easy, fast and cost efficient.

#### NETWORK COMPATIBILITY

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

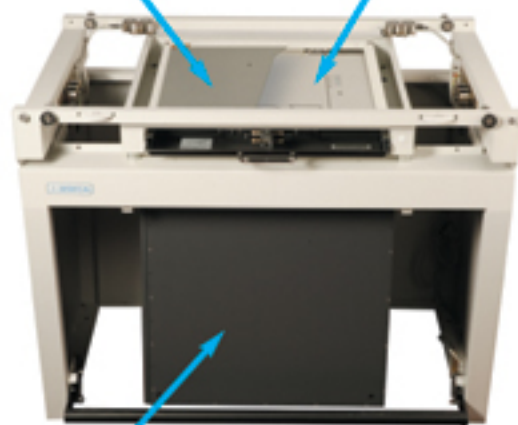
#### ELECTRONICS AND PERIPHERAL COMPONENTS

The system has been developed using as much standardized hardware and software components for the peripherals as possible. The operating system - Windows 2000 - runs on standard PC hardware. Networking is done by DICOM and Ethernet connections.



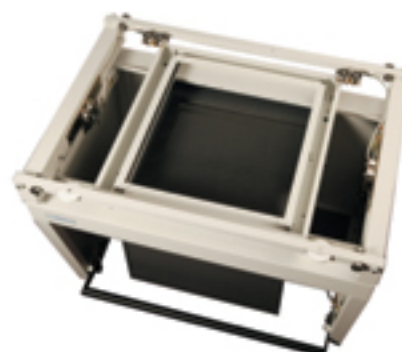
## System Performance

**Grid**      **Veterinary dedicated Ion Chamber**

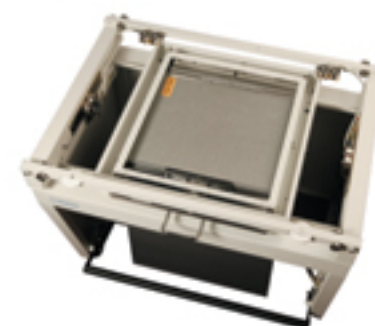
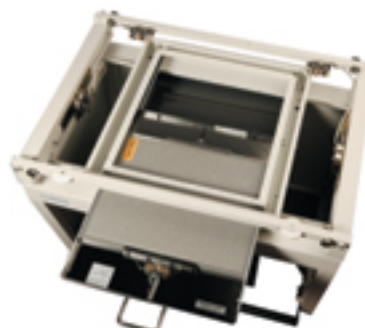


**CCD Camera Digital Detector**

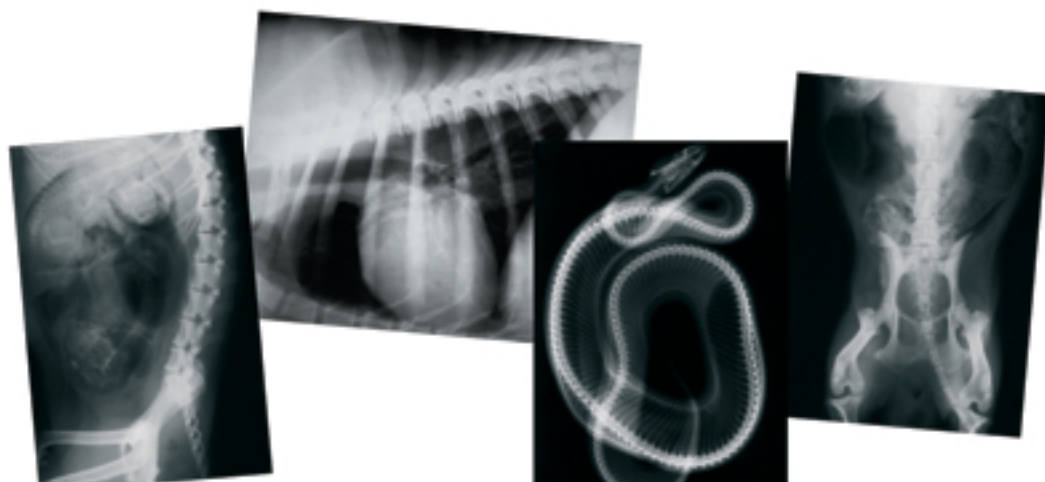
**Direct Digital Radiography**



**...and also Analog function**



**Cassette film**



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

## System Specifications

## High Frequency X-ray Generator

### CONSTANT POTENTIAL POWER RATINGS (\*)

kVp RANGE in Kvp STEPS  
accuracy

mA STATIONS

accuracy

EXPOSURE TIME RANGE  
accuracy

mAS range

AUTOMATIC EXPONSURE CONTROL (A.E.C.)

DEDICATED ANATOMICAL PROGRAMER (APR) FOR VETERINARIANS

X-RAY TUBE - ROTATING ANODE: (2.850 r.p.m) (50 Hz) / (2.850 r.p.m) (60 Hz)

LINE VOLTAGE and PHASES

FOCAL FILM DISTANCE RANGE

SLIDING COLUMN POSITIONING

TOTAL WEIGHT (X-ray Generator included)

2 m (6 FT) TABLE TOP / WALL MOUNTING PEDESTAL CONSOLE

32 kW

40 a 125  
+/- (5%+1kVp)

10, 12.5, 16, 20, 25, 32  
40, 50, 64, 80, 100, 125  
160, 200, 250, 320, 400  
+/- (5%+0.1 mA)

0.001 - 10 seconds  
+/- (1%+0.1 ms)

0.1 - 500 mAs

STANDARD - 3 fields Ion Chamber

STANDARD - (330 ANATOMIC VIEWS)

FOCAL SPOTS: 0.6 / 1.2 mm

208-240 VCA (single/three phase)  
400-480 VCA (three phase)  
50-60 Hz

100 - 1250 mm (3.9 - 49.2 inches) TO THE TABLE TOP  
400 - 1920 mm (15.7 - 75.6 inches) TO THE FLOOR  
(SMOOTH and CONTINUOUS ADJUSTMENT)

MANUAL with ELECTROMAGNETIC BRAKES

458 kg (1,010 lb.)

OPTIONAL

## Detector Specifications

DETECTOR SIZE

HIGH RESOLUTION SCINTILLATOR

GRID

IMAGE MATRIX

DYNAMIC RANGE

IMAGE RESOLUTION

SENSITIVITY

Large Field detector 35 x 43 cm (14" x 17")

6 Million Pixels - 173 microns Pixel Size

60 L/cm; R= 8:1; Focused to 1 meter

2048 x 2478

65.563 Levels Grayscale (16 bit)

2.8 LP/mm

Regular Speed: 200 ISO/ Fast Speed: 400 ISO

*Specifications subject to change without prior notice.*



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