VetiX P8

VETERINARY DIGITAL RADIOGRAPHY SYSTEM

Datasheet



1 THE GENERATOR

- The high-voltage generator with high-frequency, working frequency can be up to 45 kHz.
- High control precision in kV, mA real-time adjustment.
- Dedicated protection circuit, with complete protection method of: overheating protection, overcurrent protection, overvoltage protection, flint, tube hot-melt overload protection.
- Power: 8.0 kW
- Tube Current: 3.2 mA to 160 mA; higher mA reduces blur caused by organ motion, the chest X-ray examination is particularly advantageous.
- mAs: 0.1 mAs to 250 mAs
- Exposure time: 1 ms to 10000 ms
- Exposure voltage kV: 40 kV to 125 kV, increments: 1kV
- Power output combinations:
 - Combination at the maximum mA: 40 kV, 160 mA, 50 ms
 - Combination at the maximum kV: 125 kV, 40 mA, 40 ms
- Cooling method: natural cooling
- Exposure mode: Manual
- APR (Anatomical Program Radiography): 50 positions, fit for full-range of radiographic application
- Power Input: 200V-240V AC Single phase, 50/60Hz
- Support EU power cord
- Radiation dose display: on Workstation DROC user interface

2 X-RAY TUBE

- Enhanced anode heat dissipation, provided by high emittance coating and target design. Anode heat storage capacity is 30 kJ (42 kHU).
- Max anode heat dissipation rate: 250W (352HU/sec)
- Target angle: 25°
- Nominal focal spot: 2.6 mm
- Focus power: 8kW
- Max filament current: 4.5 A
- Filament voltage: 7.5 V to 8.5 V
- Cooling method: natural cooling
- Inherent filtration: 0.65 mmAl (75kV)
- Filament frequency: 0-22 kHz

3 FLAT PANEL DETECTOR

• DET-4336TT flat panel detector, slim and light-weighted design, it makes positioning and examination much easier.



- Imaging Material: Amorphous silicon (a-Si) semiconductor with Cesium lodide (CsI) scintillator
- DQE: 60% (0.5 lp/mm, RQA5)
- Pixel area (Effective Detector size): 430 mm × 360 mm
- Detector Thickness: 16.3±0.5mm
- Pixel size: 140 μm
- Pixel Matrix: 2496 × 3040 pixels
- Dynamic range: 16 bits
- Spatial Resolution: 3.4 lp/mm
- Imaging time of imaging system: 4.5s
- Preview time of imaging system: 3s
- Cooling Method: Natural cooling
- Surface bearing capacity:
 - Entire surface: 135 kg
 - Central 40 mm-diameter area: 100 kg
- Data transmission method: Ethernet
- Waterproof level IPX4

4 COLLIMATOR

- Manual collimator, and it is easy to operate with ergonomic design.
- Beam shape: rectangular
- Inherent filtration: 1.2 mmAl@75 kV
- Full field light localizer: LED light localizer
- Minimum radiation field: 0 cm × 0 cm at SID = 1000 mm
- Maximum radiation field: > 45 cm × 45 cm at SID = 1000 mm
- Collimator light: LED lamp (input power: DC/AC 12 V, LED 10W)

5 FRAME

- Column height: 1920 mm, with an error of ±5%
- SID: 1050 mm±5%
- Table dimension:1200 mm × 650 mm, with an error of ±5%
- Table height: 730 mm, with an error of ±5%
- Table movement: Separable movement of the radiography table, with four casters that can be fixed

6 FUNCTION FEATURES

- Remote control radiance:10 m
- Remote control functions: exposure
- User authorization different classes: Admin and User, using secret code to access

7 ACQUISITION WORKSTATION

- Operation system: Windows 10
- CPU: ≥ 1.4 GHz
- Hard disk storage: ≥ 500 GB
- RAM memory: ≥4 GB
- Screen size: 23.8 inch
- Max. resolution: 1920 × 1080
- Image processing system: DROC, network communication meets the DICOM 3.0 standard, achieving management over animals and images.

7.1 DROC FUNCTION

- Animal registration
- Animal data edit, backup
- Expose parameter adjusting
- Image process
- Image view, backup
- Film print

7.2 IMAGE REVIEW/NOTE FUNCTION

- Window width/level
- Crop
- Zoom
- Move
- Magnify
- Black and White Reverse
- Auto W/L In Rect
- Rotate
- Mirror
- Histogram
- Image Mark
- Measurements
- Last Shutter

7.3 'LEVELS' ALGORITHM

- Detail enhancement
- Noise suppression
- Optimization curve regulation
- Tissue equalization



7.4 NETWORK and DATA CONNECTION

- LAN connection
- DICOM 3.0
 - DICOM Verification
 - DICOM Worklist
 - DICOM Storage
 - DICOM print

8 ENVIRONMENTAL CONDITIONS

- Operating environment requirements
 - Relative humidity: 30% to 75% (no condensation)
 - Atmospheric pressure: 70 kPa to 106 kPa
 - Ambient temperature: 10°C to 40°C
- Transportation and storage conditions
 - Relative humidity: 30% to 93% (no condensation)
 - Atmospheric pressure: 70 kPa to 106 kPa
 - Ambient temperature: -20°C to 55°C



