Small-Large Animal Removable Portable 14x17 DR3500C Flat Panel 37.5kW Stationary System

Designed to provide small animal, high performance imaging at an affordable price

Integrated Table/Tube Stand with 4-way float top

Vet APR Console

7.5 kW Stationary System
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Introduction

The DR 3500C Smart Panel Plus System is designed to provide high performance at an affordable price.

The Flat Panel uses a very stable detector compared with CR and CCD detectors. Furthermore Flat Panels with its patented dose recognition and image density correction provides high quality images for all diagnostic purposes.

The wide dynamic range with + - 400%/dose range of the Flat Panel allows the user to view diagnostic grayscale images and adjust the brightness and contrast of the images effectively making retakes a thing of the past. Consequently, much more diagnostic information can be obtained from the image.

The DR Navigator’s x-ray generator and table are designed to enable easy cleaning and washing of the room floor on which the system is installed.

Considering the generally inadequate input power at most veterinary clinics, the x-ray generator is designed to output a high rating at a long exposure time, with only single phase 240 VAC required which makes excellent quality images possible for even big animals.

With the remote diagnostic function of the x-ray generator and software, customer service can be provided quickly and easily wherever the DR 3500 Smart Panel Plus is installed.

Features

- Portable Static Flat Panel Detector
- Large image detection area
- Versatile application
- Image area: 14”x17”
- Scintillator: GOS
- Gadox
- Weight: 4.5kg
- Receptor Type: Active Area
- 34.6cm x 42.0cm
- Pixel Pitch: 150μm
- X-ray Inner Trigger: Sync-Shot
- Weight: 4.5kg
- Scintillator: GOS
- Pixel Matrix: 2300x2800
- 57dB
- Data Output: Gigabit Ethernet
- SNR under 75% Saturation Dose: -20~70 oC
- Dimensions: 490 x 495 x 20mm
- Weight: 4.5kg
- SNR under 75% Saturation Dose: 10~70%
- Operation Temp (back cover): 0~40 oC
- Operation Humidity (back cover): 0~70%
- Storage Temp: -20~70 oC
- Storage Temp: 10~70%

DR Navigator software

- Comprehensive image processing by optimal tissue equalization, image sharpening and brightness adjustment.
- Image process parameters are selectable to maximize the preset algorithms.
- Full size image display within 3 seconds.
- DICOM 3.0 standard. Preview function

Superior High-Frequency X-Ray Generator

- Superior performance:
  - Accuracy - kV: ±1%(1kV), mA: ±3%(1mA), time: ±(1%+0.5ms)
  - Reproducibility (Coefficient of Variation): kV<0.002, time<0.002, mAs<0.005

- Linearity (Coefficient of Linearity): CL<0.01
  - Real-time monitoring self diagnosis and error code display
  - Tube anode HU display & protection, overload & housing overheat protection.
  - Self calibration function
DR Navigator Software

Advanced featured software, displays Anatomical X-Ray Positions and Technique Selections for large and small animals. Custom written for your specific X-Ray Unit eliminating costly retakes.

Other functions include pre and post processing imaging enhancements, manipulation, storage and transmission of DICOM images.

Our software’s new automatic anatomical pre-processing filters are now capable of performing a very important, time saving task automatically. The new anatomical pre-processing software filters perform the image enhancement and clarification automatically before the x-ray image is displayed on the computer’s LED monitor. These filters are pre-set based on the species, anatomical region and thickness, resulting in an image that requires little or no manual post processing for a sharp, easy to read diagnostic image.

Dell High Powered Computer Workstation

**All computer systems come with 3 year ON-SITE “Complete Care” Accidental Damage Protection and “ProSupport” 24 x 7 Technical Support**

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**Desktop**
- **CPU:** 4th Generation Intel® Core™ i5-4200U processor (3M Cache, up to 2.6 GHz)
- **RAM:** 6GB Dual Channel DDR3L 1600MHz (4GBx1 + 2GBx1)
- **Video:** Intel® HD Graphics 4400
- **Storage:** 750GB 5400RPM SATA Hard Drive
- **Security:** Trend Micro Worry-Free Security Services
- **Monitor:** 20” LED Backlit Display with Truelife and HD+ resolution (1600 x 900)
- **OS:** Windows 7
- **Network:** Broadcom NetXtreme Ethernet
- **CD:** Tray load DVD Drive (Reads and Writes to DVD/CD)

**Laptop**
- **CPU:** 4th Generation Intel® Core™ i5-4200U processor (3M Cache, up to 2.6 GHz)
- **RAM:** 6GB Dual Channel DDR3L 1600MHz (4GBx1 + 2GBx1)
- **Video:** Intel® HD Graphics 4400
- **Storage:** 750GB 5400RPM SATA Hard Drive
- **Security:** Trend Micro Worry-Free Security Services
- **Monitor:** 15” or 17.3 inch LED Backlit Display with Truelife and HD+ resolution (1600 x 900)
- **OS:** Windows 7
- **Network:** Broadcom NetXtreme Ethernet
- **CD:** Tray load DVD Drive (Reads and Writes to DVD/CD)
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Specifications

X-Ray Generator
- kW Rating .................................................. 37.5kW
- kVp Range ................................................. 40 to 125 kVp, 1kV step
- mAs Range .................................................. 25 to 400mA
- kVp Accuracy .............................................. <±(1% + 1kV)
- mAs Accuracy ............................................. <±(3% + 0.01 mAs)
- Input Power: Single Phase 220/240V AC +/- 10%, 50/60Hz
- Breaker Size: 100Amp

X-Ray Tube Assembly
- Model / Maker .............................................. Toshiba
- Tube Column Height ...................................... 75"
- Tube Stand Longitudinal Travel ...................... 40"
- Tube Stand Vertical Travel (Variable SID) ...... 29"
- Tube Rotation .............................................. +/- 90 degrees
- Electromagnetic Locks on all movements
- Max. Anode HU .............................................. 140 kHU
- Focal Spot Size ............................................. 1/2 mm

Tube Stand & Float Top Table
- Grid .......................................................... 103 lpi (ratio 10:1)
- Table Top Size .............................................. 28" x 60"
- Tabletop Movement ...................................... 4-way
  - Tabletop Longitudinal Travel ...................... 27"
  - Tabletop Transverse Travel ......................... +/- 6"
- Tube Stand to Table Edge, Fully Extended ....... 43.5"

X-Ray Collimator
- Control ..................................................... Manual-Linear MC150
- Field Shape ............................................... Rectangular
- Max. Field Size ........................................... >43 x 43 cm / 100 cm SID
- Max. kV Shield ............................................ 150 kV
- Lamp ....................................................... Quartz Halogen 160 Lux

Digital Image Receptor
- Active Matrix Size .................................... 14" x 17" (35 x 43 cm)
- Image Matrix ............................................. Gadox Direct Conversion
- Image Resolution ...................................... Exceeds FDA’s Human Radiology Resolution Standard
- Acquisition Time ....................................... 4.5 Seconds
- Dynamic Range ......................................... 16-bit Grayscale
- File Format ................................................ DICOM

“Smart Panel” Universal Application Table Mounting

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