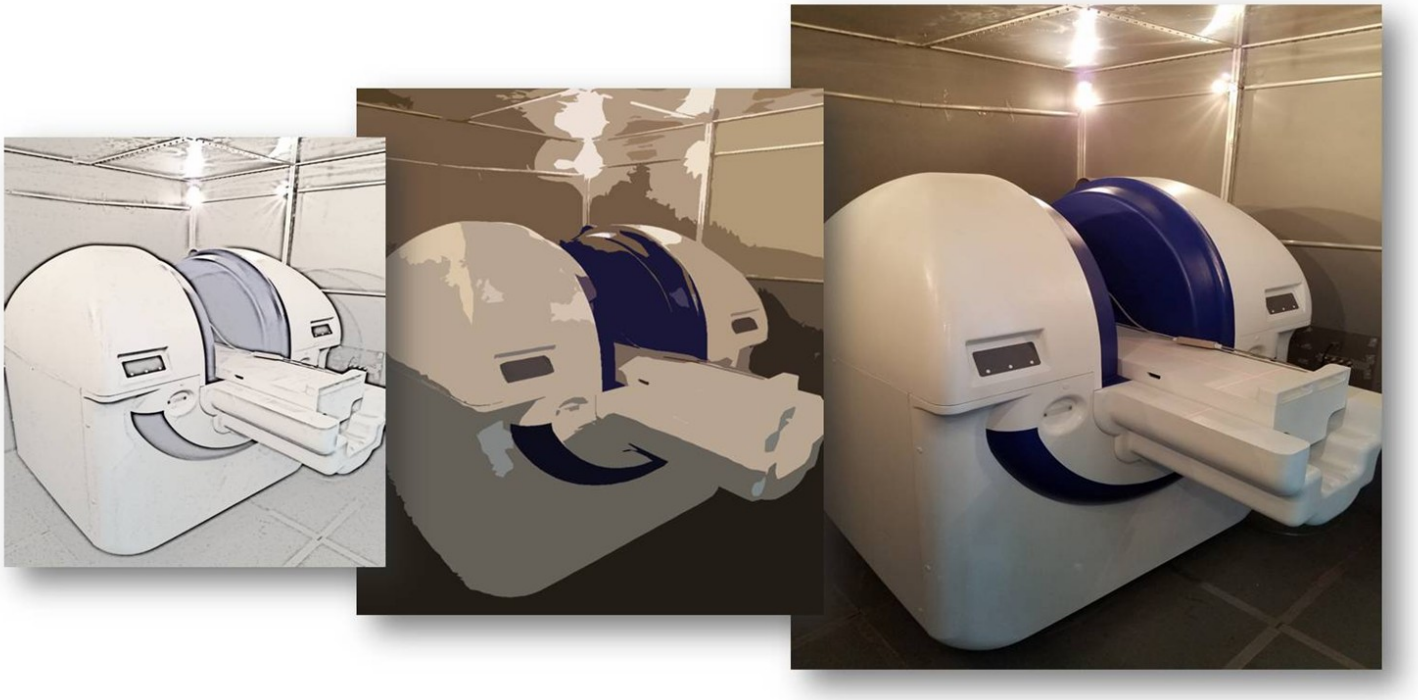
The *Next Generation* Magnus



Exclusively from Animal Imaging Partners

Animal Imaging Partners

Designed *specifically* for animals

The **Magnus AIP Vet-MRI™** veterinary MRI system was designed exclusively for animals. The system comes standard with 5 state of the art **animal specific RF** coils. In addition to the U shaped coil, there are also 4 channel large and **extra large coils** that are the biggest veterinary specific coils available in the industry. The system utilizes our novel magnet design providing superior field homogeneity, large field of view and excellent patient access. Our user-friendly, **veterinary specific software** includes optimized protocols for each anatomical site and allows maximum flexibility in customizing clinical protocols and post image processing. The wide range 2D and 3D sequences and imaging techniques, including over-sampling, fast imaging, fat and water suppression, diffusion-weighted imaging and high resolution imaging guarantee superior image quality. The **Magnus AIP Vet-MRI™** is 100% digital, network ready and DICOM® 3.0 compatible for remote reading and easy image archiving.

10032019

Magnus™ AIP Vet-MRI

System Specifications

MAGNET

Field Strength: 0.4Tesla

Design: U-Shape Open Access

Gantry Opening: 35cm (13.78")

Homogeneity: <40 ppm @30 cm DSV

Shimming: Passive + Active

GRADIENT SUBSYSTEM

Water-cooled active shielded

Amplitude: 20mT/m

Slew Rate: 66mT/m/ms

Rise Time: ≤0.3ms

Duty Cycle: 100%

RF SUBSYSTEM

Resonance frequency: 17.0 MHz ± 0.5 MHz

RF amplifier: 6kW

RF transmission duty: 10%

Type of transmission and receive: Digital

Type of transmissions coil: Unipolar plate transmission coil

Maximum receive band: 1 MHz

Type of Spectrometer: Digital

Receiving Channels: Multi channel

Frequency range: DC – 22MHz

Channels of receive coils: 2 channels and 4 channels

Number of receive coils: 5 receive coils come standard with the unit

COMPUTER SYSTEM

CPU: Intel dual-core processor

CUP frequency: 3.3G

Host memory: 4G

Video memory: 1G

Monitor: 24" High resolution TFT color LCD

DVD: DVD W/R

Operations system: Win7

TABLE

Maximum load: 75 kg (165 Lbs)

Dimensions: 200 cm (79") length x 33 cm (13") width

Vertical movement: 10 cm (4"0)

Longitudinal movement: 80 cm (32")

Movement precision: ±1mm

Laser positioning

PULSE SEQUENCES

Spin Echo (SE)

Turbo Spin Echo (TSE)

Standard IR (IR)

Short inversion time IR (STIR)

Fluid Attenuation IR (FLAIR)

2D Gradient echo (GRE2D)

3D Gradient echo (GRE3D)

3D turbo spin echo (TSE3D)

DWI

SEQUENCE PARAMETERS

Image construction time: >1000/images/s

2D minimum slice thickness: 1mm

3D minimum slice thickness: 0.5mm

Minimum FOV: 100mm

Maximum FOV: 400mm

Maximum spatial resolution: 1mm

Receive matrix: 64 x 64, 512 x 512

Echo time: 5-500ms

Repetition time: 20-10000ms

IMAGE DISPLAY AND POST PROCESSING

Maximum display matrix: 1024 x 1024

Multi-window display – 4/9/16 images

Image zoom

Image rotation

Distance measurement

Angle measurement

Smoothing,

Background noise reduction

Dicom 3.0 interface

PACS interface

Internet remote login

SITE REQUIREMENTS

Power required: single phase, 110 Volts AC

Power frequency: 50/60Hz

Voltage fluctuation range: ±10%

Isolation regulator transformer: 10 kVA (provided)

Installation area: ≥27.3 m² (294 ft²)

Minimum Installation height: 2.6 m (8'6")