



Easy MRI

- Easy to use
- Easy to install
- Easy to manage

MrV has been designed to meet the requirements of the veterinary market, and developed in collaboration with clinical and diagnostic centres of excellence.

It is a Magnetic Resonance scanner, perfect for examining small-medium sized animals, and that can be easily installed in areas where space is limited. MrV provides the best cost/quality ratio available, thanks to permanent magnet technology and extremely reduced running costs, reaching a financial break-even point very quickly.



Designed specifically for the veterinary medicine

- An avant-garde system

MrV is the first MR system specifically designed to bring diagnostic excellence to the field of veterinary medicine. Magnetic Resonance imaging is state of the art in terms of the analysis of oncological, neurological and orthopaedic pathologies.

- Uncompromising Performance

The open structure of the magnet and specifically designed table, make positioning the animal extremely simple, allowing you to examine even larger animals.



Top quality

- **Optimised clinical protocols**

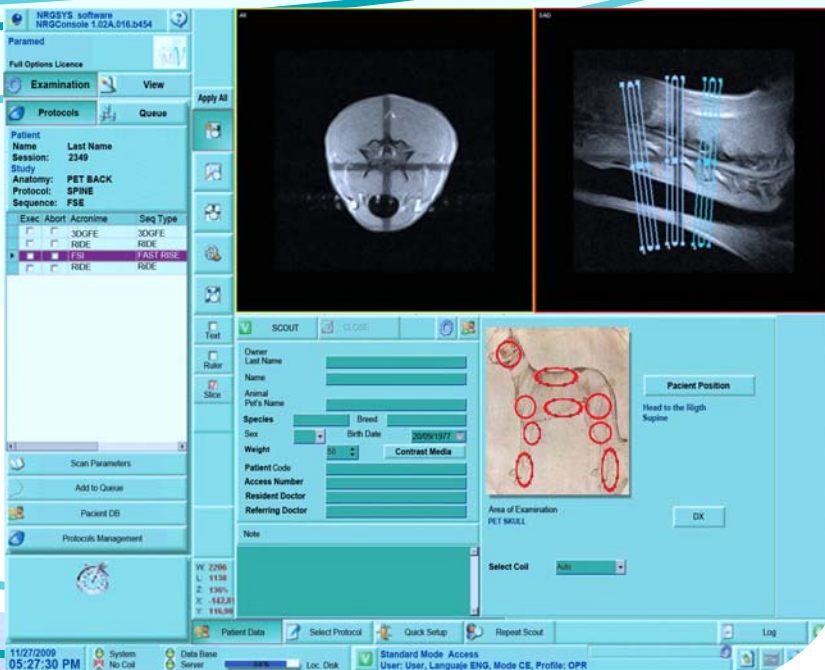
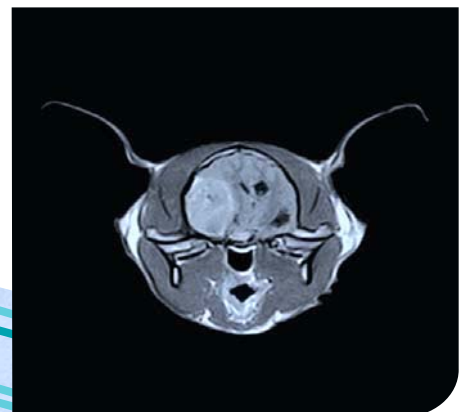
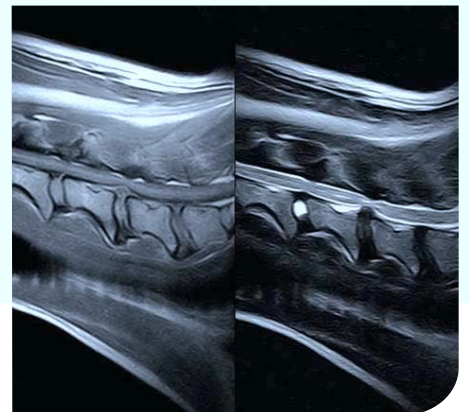
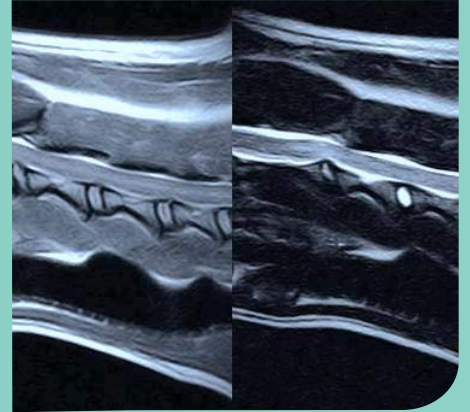
MrV has a package of sequences and optimised imaging protocols for veterinary applications, the result of many years of collaboration with clinical centres of excellence.

- **Intuitive user interface**

The most advanced imaging techniques are all easily accessible through a user interface designed for immediate use, allowing you to obtain extremely high quality images for all clinical requirements.

- **Special coils**

A complete set of multi channel receiving coils guarantees unparalleled image quality for all anatomical areas, regardless of the animal's size.



Technical specifications

Magnetic unit

- Permanent, open magnet, Eddy Currents free
- Vertical magnetic field, 0.22 T
- Magnet weight 4400 kg
- Dimensions 125 x 250 x 157 cm (W x L x H) including table
- Opening 38 cm (excluding table)
- Homogeneity < 5 ppm on a sphere of 160 mm DSV (FWHM)

Gradient and RF system

- Gradient Strength +/- 15 mT/m
- Raising time 0.6 ms (from 0 to 15 mT) - slew rate 25 mT/m/msec
- RF amplifier maximum power 2.5 kW, duty cycle 10%

Patient support

- Patient bed fixed to magnet, manual movement
- Maximum patient weight 200 kg
- Lit-up led centring system

Acquisition sequences

- | | |
|---------------|---------------------------------------|
| · Scout | 3 orthogonal slices multiplanar scout |
| · SE - DE | Spin Echo (T1-T2) - Double Echo |
| · E-RASE | Echo-Reduced Acquisition Spin Echo |
| · IR - STIR | Inversion Recovery - Short Tau IR |
| · FLAIR | Fluid Attenuated Inversion Recovery |
| · GFE - 3DGFE | Gradient Field Echo 2D e 3D |
| · STIR-GFE | STIR with Gradient Field Echo |
| · RISE | Rapid Imaging Spin Echo |
| · Fast RISE | Fast RISE (ETL up to 9) |
| · RIDE | Rapid Imaging Double Echo |
| · 3D SPGFE | 3D SPOiled Gradient Field Echo |
| · 3D EMIT | Time reversed 3D Gradient Field Echo |

Image acquisition and management functions

- 2D and 3D modes Spin Warp, Half Scan, Partial Echo
- Acquisition matrix up to 1024 x 1024 with oversampling
- Fast Imaging Echo Train up to 9
- ABS Automatic Backfolding Suppression
- Field of view 60 - 300 mm, max. visualised 220 mm
- Slice thickness min. 2 mm in 2D, 0.6 mm in 3D
- Image filtering enhancement functions with GOP * algorithm
- Pre-saturation - Flow compensation
- Readout/Phase swap
- FOV Reduction

Operator computer characteristics

- Min. processor P4 2.8 GHz
- Operating system Win XP Professional
- Min. RAM 1 Gb - HDD min. 80 Gb 7200 rpm
- Storage DVD / CDR-RW
- Monitor 19" TFT, 1280x1024, high contrast

Connection

- Dicom 3.0 compatibility: Dicomprint, Dicomstore, Worklist, MPPS
- FTP - TCP/IP protocol
- Standard LAN network connection



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