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# AIRIS Vento

Comfort class in permanent open MRI



Hitachi Medical Corporation, Medical Systems Operating Group, is certified as complying with the International Standard of System Quality Assurance (ISO 9001), Medical Device Special Requirements (ISO 13485) and etc.

Hitachi Medical Corporation, Medical Systems Operating Group, has been certified to ISO 14001 (Environmental Management Systems).

Specifications and physical appearance may be changed without prior notice in order to improve performance. Some features described are optional. Please read instruction manual to ensure correct operation of the equipment.







## AIRIS Vento

The comfort class MRI solution – tailored to your budget

For both you and Hitachi, economy, patient comfort and confidence in diagnosis are vital. AIRIS Vento incorporates newly developed permanent open MRI technologies and a wealth of the latest know-how in superconductive MRI systems to provide you with enhanced imaging capabilities and an outstanding return on investment.



Hitachi Medical Systems Europe is the European headquarters of the Hitachi Medical Corporation whose corporate head offices are located in Tokyo, Japan; a company renowned for technological innovation. Our broad experience and expertise in magnet, gradient and RF technology makes us a recognised leader in open MRI. We meet the latest in design and quality standards with truly comprehensive, patient-friendly systems that combines outstanding image quality with advanced clinical applications and unbeatable economical performance.



## AIRIS Vento – Comfort class technology and performance

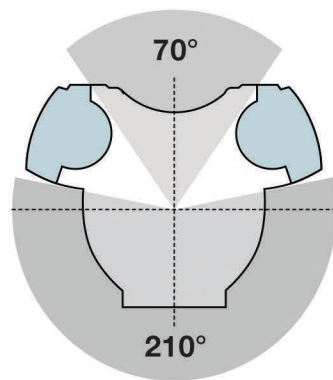
Through Hitachi's unique vertical field coil technology, new uniform graphical user interface and the introduction of its ultra-fast image reconstruction engine, the 0.3T permanent open MRI system offers real state-of-the-art MRI imaging technology.

### Comfort class in economics

- Very low running costs compared with superconductive MRI
- No sophisticated infrastructure required, as there is no need for water or helium cooling
- Space requirement is only 20m<sup>2</sup>, making it perfect for private diagnostic centres and existing hospital facilities
- Excellent return on investment, even at low patient throughput

### Comfort class in technology

- High speed image reconstruction with fat separation thanks to new high-field image processing
- New imaging sequences, comparable to high field capabilities
- New graphical user interface for smooth, easy MRI examinations
- New eddy current control technology and the latest gradient system for small FOV, thinner slices and shorter scan times



### Comfort class design

- Award-winning two-pillar, patient-friendly design
- Comfortable 73cm wide table, allowing horizontal, vertical and lateral motion to optimise positioning and enhance image quality
- Air-cooled, low noise gradient system giving a comfortable patient experience during imaging, whilst reducing the need for repeat scans
- Proven design in MRI technology and product reliability with more than 5,000 units installed

■ A comfortable investment in MRI!







## AIRIS Vento – Comfort for your patient

The compact, wide open aperture is designed to make the whole experience less intimidating for patients. Comfort is assured throughout the scanning process, for the patient and you.

- Children and their parents are relaxed during scanning, avoiding the need for repeat scans
- The elderly avoid the tube experience and anxiety
- Claustrophobics experience less fear of examination
- Very good accessibility for bariatric patients
- Silent, air-cooled gradient system with very low noise level during examinations
- Comfortable, wide and easily accessible table for simple patient positioning

## AIRIS Vento – The comfort class MRI solution

Experience new technologies combined with friendly open MRI design that make the AIRIS Vento, ideal for children, the elderly, as well as claustrophobic and bariatric patients. A new level of comfort for both the patient and you.

■ Guaranteed comfort for your patients!

### AIRIS Vento – better value for money

- Soft, rounded patient-friendly MRI design
- A relaxed patient experience with maximum comfort
- Latest graphical user interface and image reconstruction technology
- Superb image quality, displayed on a large screen
- No equipment room needed and minimal infrastructure requirements, thus permitting cost-effective siting
- Comfortable, wide patient table
- Very low energy consumption, ensuring minimal environmental footprint
- Ideal MRI solution for orthopedics, neurology and many other applications
- More than 20 years' experience and excellence in vertical magnetic field MRI technology
- Renowned Hitachi reliability

■ Comfort class in open MRI, exceeding your expectations!





## AIRIS Vento – Comfortable, new technology focused on image quality and excellent cost of ownership

The AIRIS Vento features a wide, open MRI system with world-renowned, proven technology, a unique range of dedicated anatomically-adapted coils and best-in-class Hitachi technologies to achieve excellent image quality.

### **New Fine Tune Technology (FITT)**

FITT compensates for the difference in signals between multi slabs. This feature allows improved image quality in MRA by optimising MTC and RF pulse. FITT produces clear images of fine vessels without boundary artifacts between slabs.

### **New graphical user interface, image reconstruction and wide screen display**

- Simple, fast image processing
- Smooth operation on the wide screen
- High speed image reconstruction and complex processing such as Volume Rendering (VR) and Maximum Intensity Projection (MIP) can be completed in a short time
- Curved and radial multi-planar reconstruction
- Platform-independent uniform graphical user interface that is easy to learn and use, which allows you to develop as your needs change

### **New Eddy Current Correction Technology**

The AIRIS Vento now uses new Eddy Current Correction (ECC) technology. Eddy currents disrupt the gradient field waveform, causing image distortion, which in turn leads to a reduction in image quality. The new AIRIS Vento ECC technology is not only used on the magnet itself, but also to predict and control the potential amount of eddy current, which results in improved image quality.

### **New SuperShim technology**

With SuperShim installed, high order shimming can be applied to those static magnetic fields that conventional first order shimming alone could not adequately compensate for.

- With the AIRIS Vento, Hitachi provides the best blend of image quality and value for money.



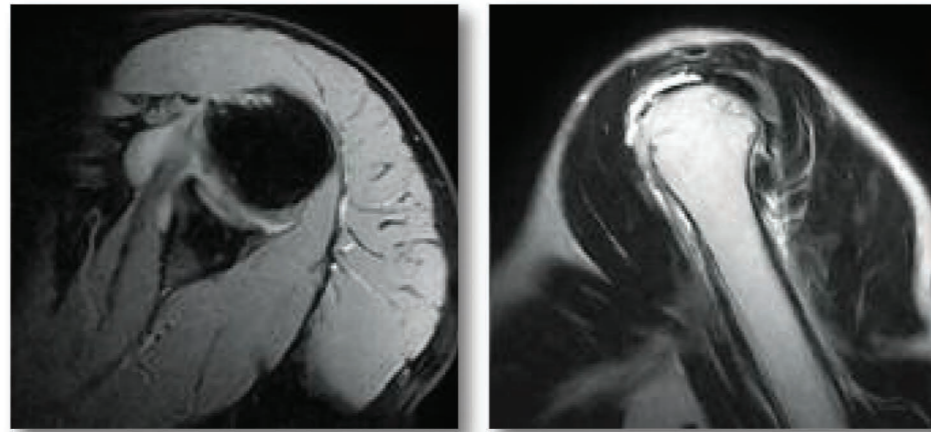


# AIRIS Vento – Comfort class imaging features

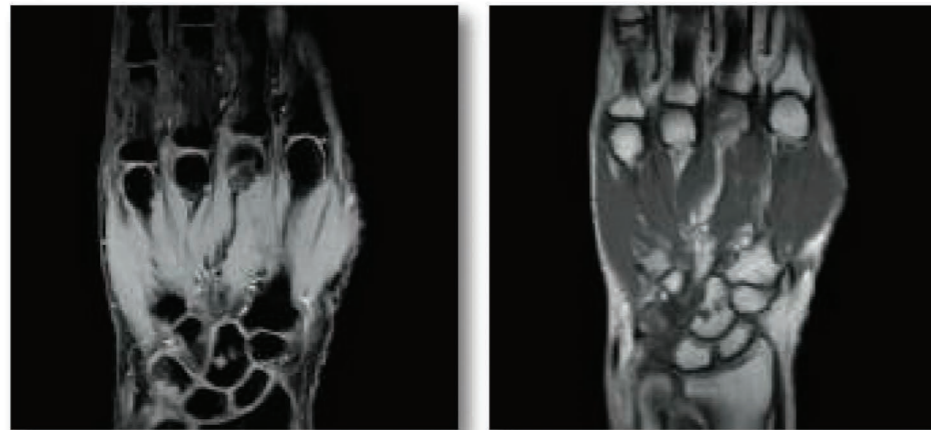
The AIRIS Vento offers a wide range of clinical imaging capabilities to produce image quality in all applications that surpasses your expectations.

## Musculoskeletal (MSK) imaging

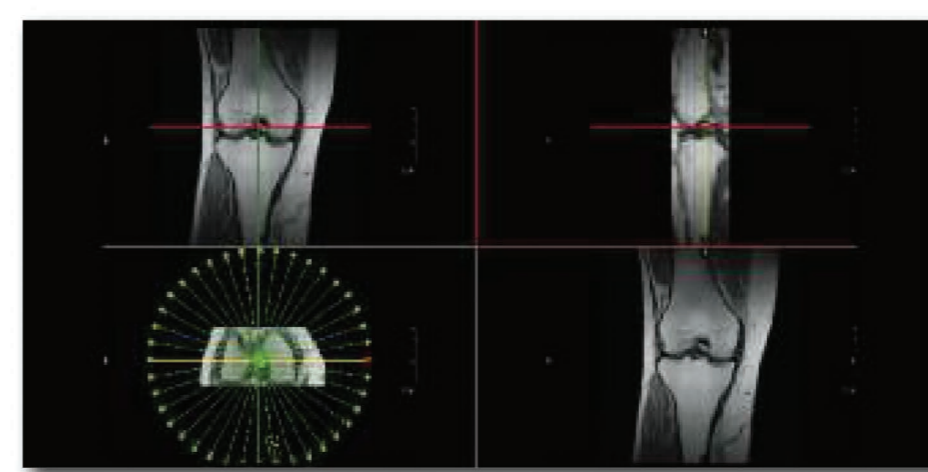
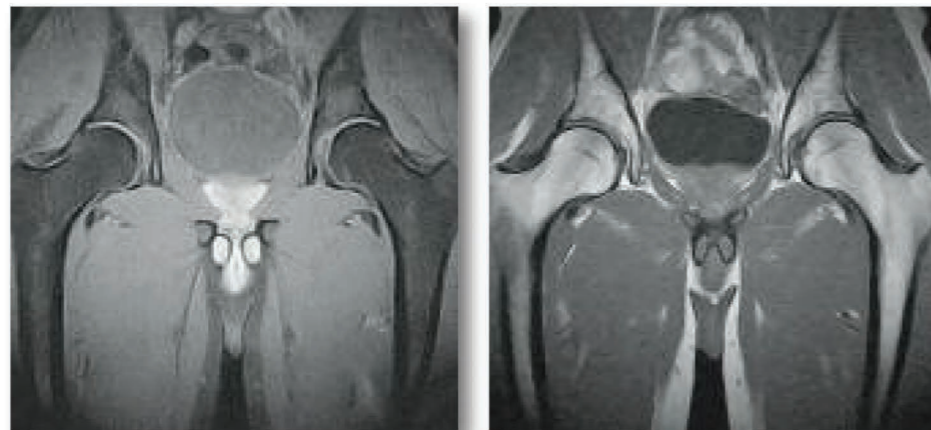
Rotator cuff injury-FatSep  
Rotator cuff injury-T2WI-2



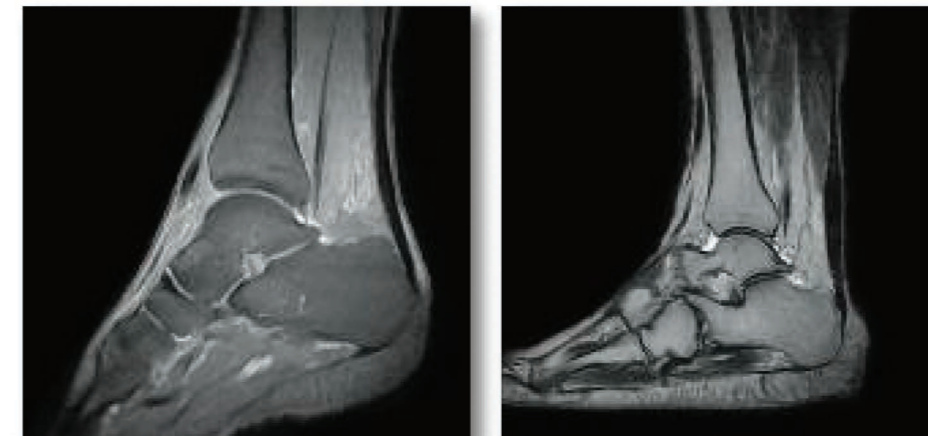
Rheumatism-FatsSep  
Rheumatism-T1WI



Hips coronal PD FatSepSE  
Hips coronal T1

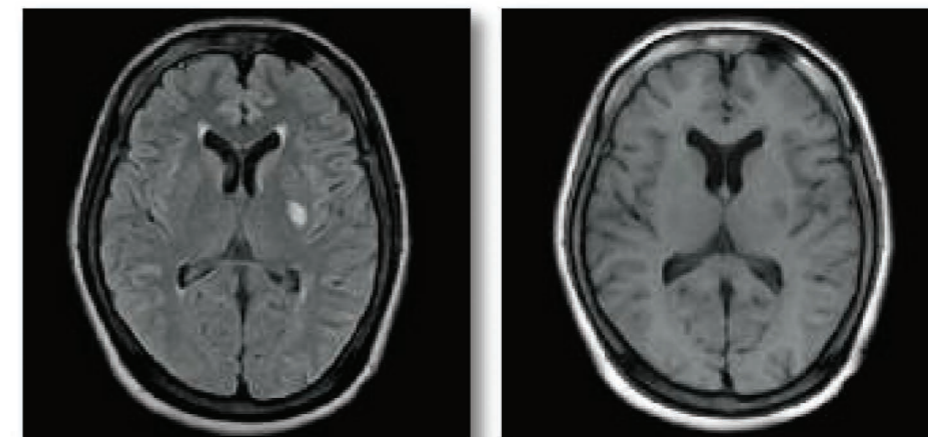


Radial MPR

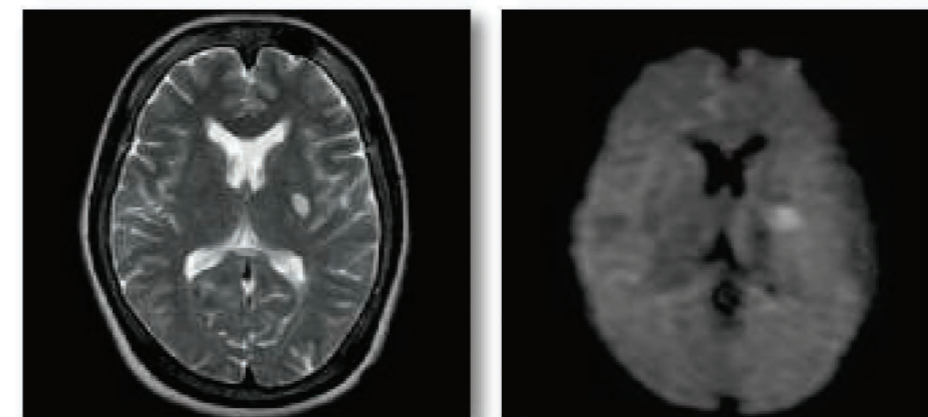


Ankle sagittal PD FSE Fat Sat  
Ankle sagittal T2 FSE

## Neuro imaging



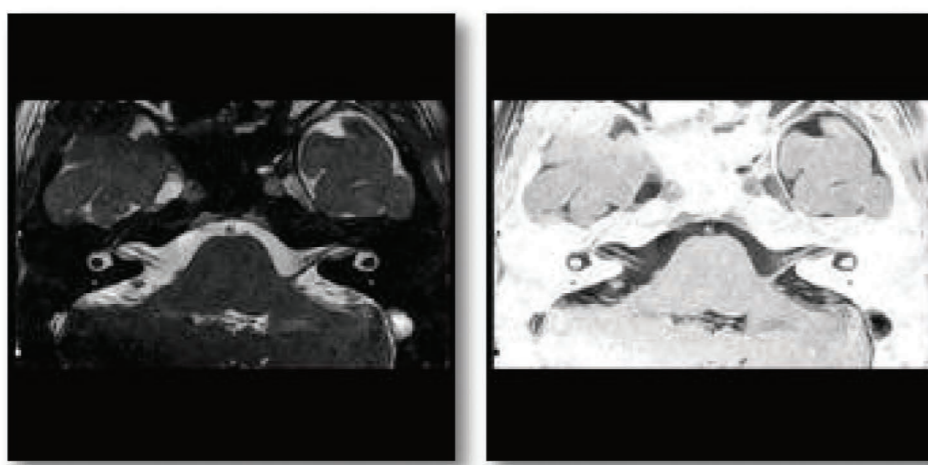
Acute infarction-FLAIR  
Acute infarction-T1WI



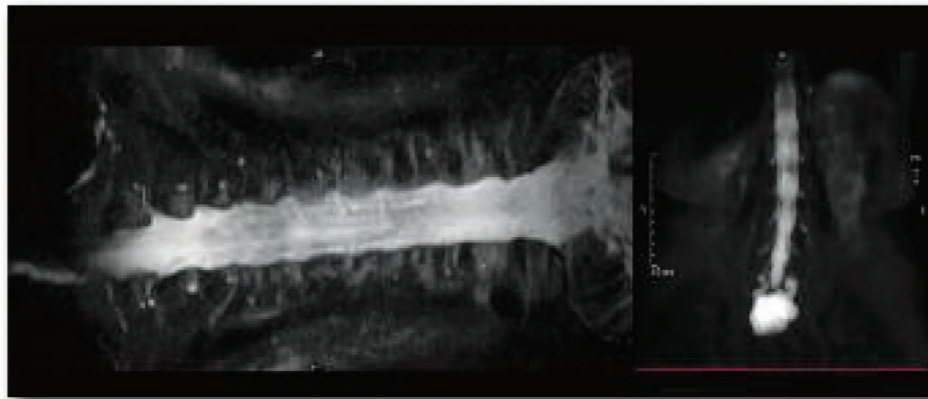
Acute infarction-T2WI  
Acute infarction-DWI



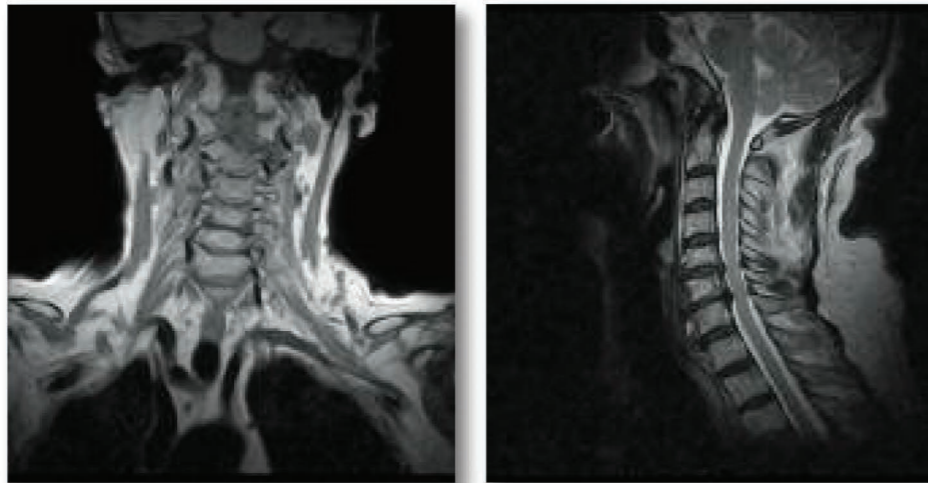
Inner ear  
 Inner ear



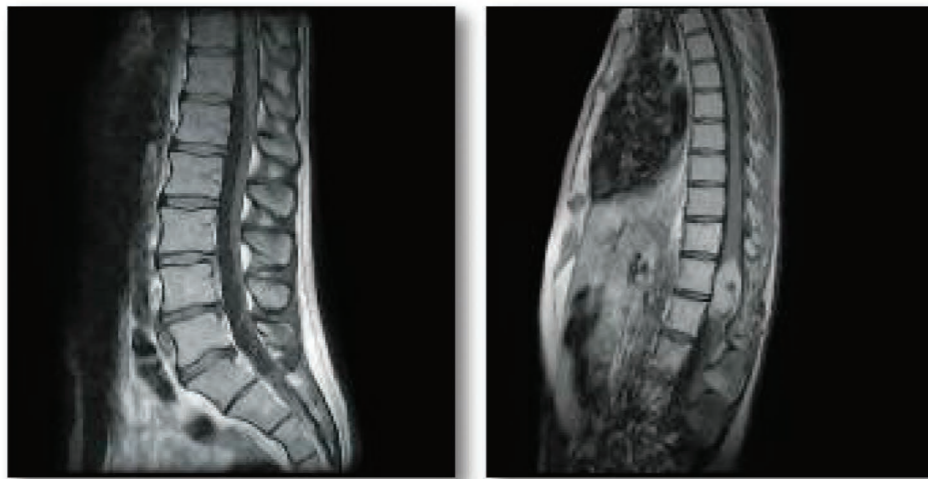
Spinal cord



Cervical spine coronal T1 SE  
 Cervical spine sagittal T2 FSE



Thoracic sagittal T1 FSE  
 Thoracic sagittal T1 SE post contrast



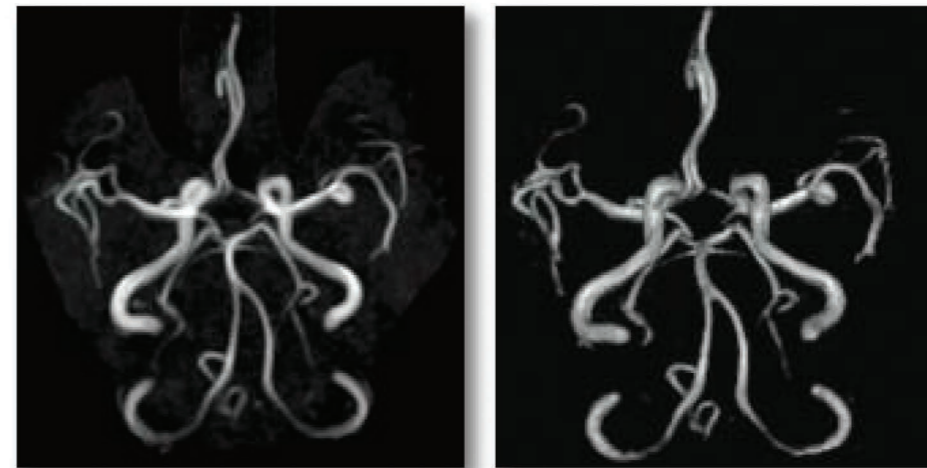
Lumbar sagittal T1 FSE  
 Lumbar sagittal T2 FSE



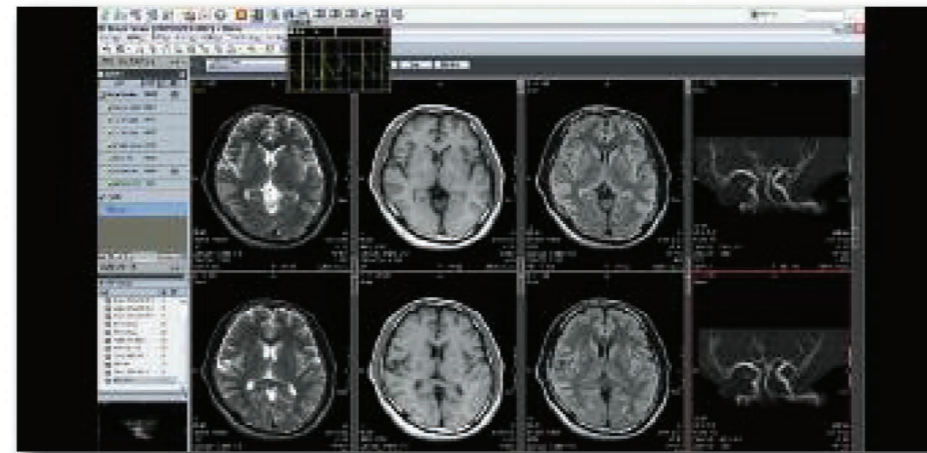
Curved MPR



MRA-MIP  
 MRA-VR



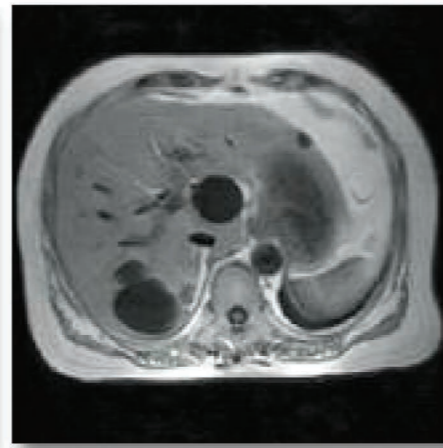
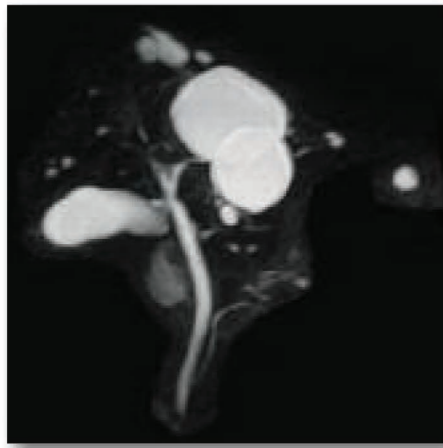
User-friendly GUI



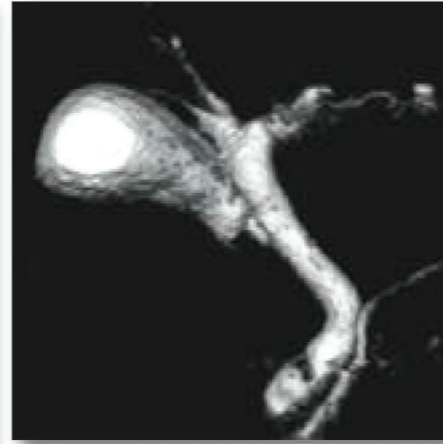
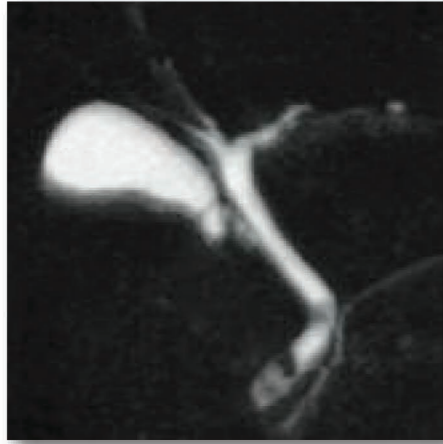


## Body imaging

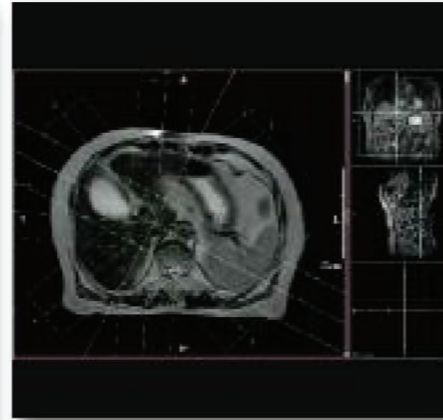
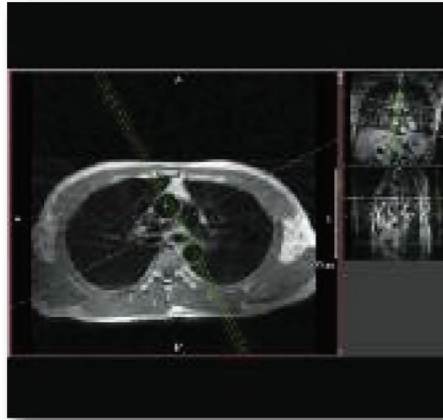
Polycysts-MRCP  
 Polycysts-T1W1



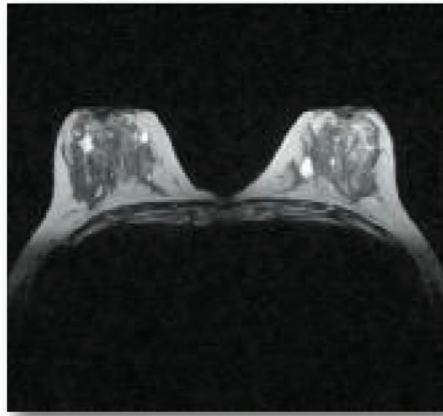
MRCP-MIP  
 MRCP-VR



Multi-scan plane setting  
 Radial Stack



Breast axial T2 FSE  
 Cardiac images







## AIRIS Vento – Comfort class siting – generous space for the patient and minimal space required for the equipment

The AIRIS Vento only requires a 20m<sup>2</sup> examination room, which makes it very suitable for private diagnostic centres and existing hospital buildings. The required power supply is only 10kVA, thus keeping your running costs very low.

Due to the small fringe field of the AIRIS Vento, the imaging room can be kept small, and, in some cases, the technical room can even be integrated to use less space.

## AIRIS Vento – comfort in daily use

AIRIS Vento offers comfortable, smooth and quick workflow so that you can concentrate on your patients.

### Smooth operation using the wide screen

Key information can now be displayed and arranged more clearly, thus letting the operator view all of the relevant information at a glance.

### Quick and simple adjustment of image acquisition and image processing settings

The parameter guidance function gives you automatically colour-coded suggestions as to which parameters can be optimised. This makes the working day of the operator and radiologist that much easier.

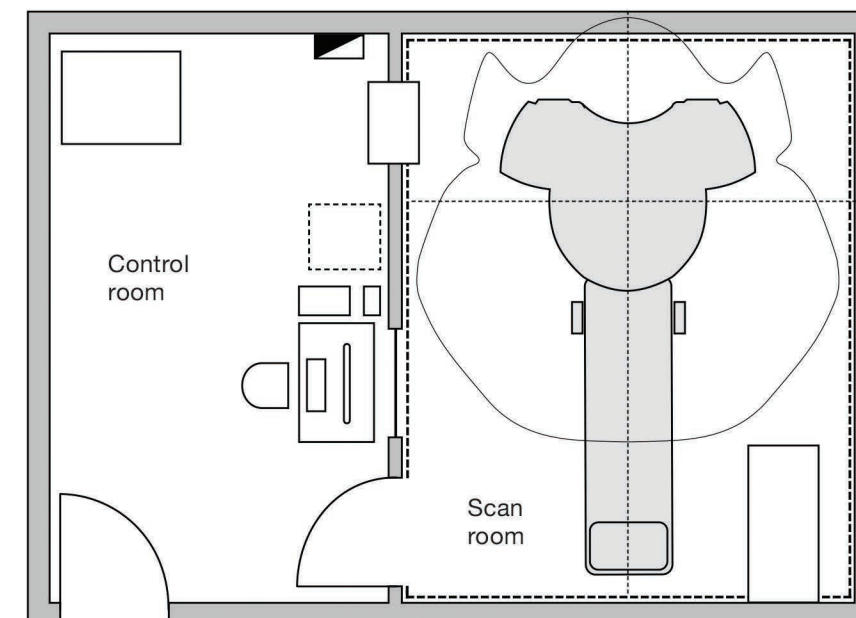
### User-friendly graphical user interface

High speed image processing and reconstruction combined with the user-friendly graphical interface lets you perform complex computation processes, such as curved multi-planar reconstruction (MPR) and volume rendering (VR). Stress-free MRI operation.

### Sentinel Customer Support

This support service is available to keep the status of your MRI system monitored around the clock so that your systems are kept running smoothly by means of proactive status monitoring. More than comfort class reliability, Hitachi reliability.

- Cost control whilst exceeding performance expectations – comfort class MRI with the AIRIS Vento.







## Hitachi Medical Systems' Values and Services

Hitachi Medical Systems combines high technology with the Asian tradition of long-term thinking, a high level of consciousness for quality aspects and the subsequent understanding of service.

In building valuable, long-term relationships with our customers, we have achieved an understanding of their different needs and expectations. This has strengthened our commitment to deliver high-quality products which fulfil the requirements of each unique clinical speciality.

We provide a one-to-one service to secure first class customer satisfaction. The close working relationships among sales, applications and many other key members of Hitachi Medical Systems guarantee appropriate reactions and fast responses.

We always endeavour to go the extra mile. We succeed because we welcome new ideas, products and services.

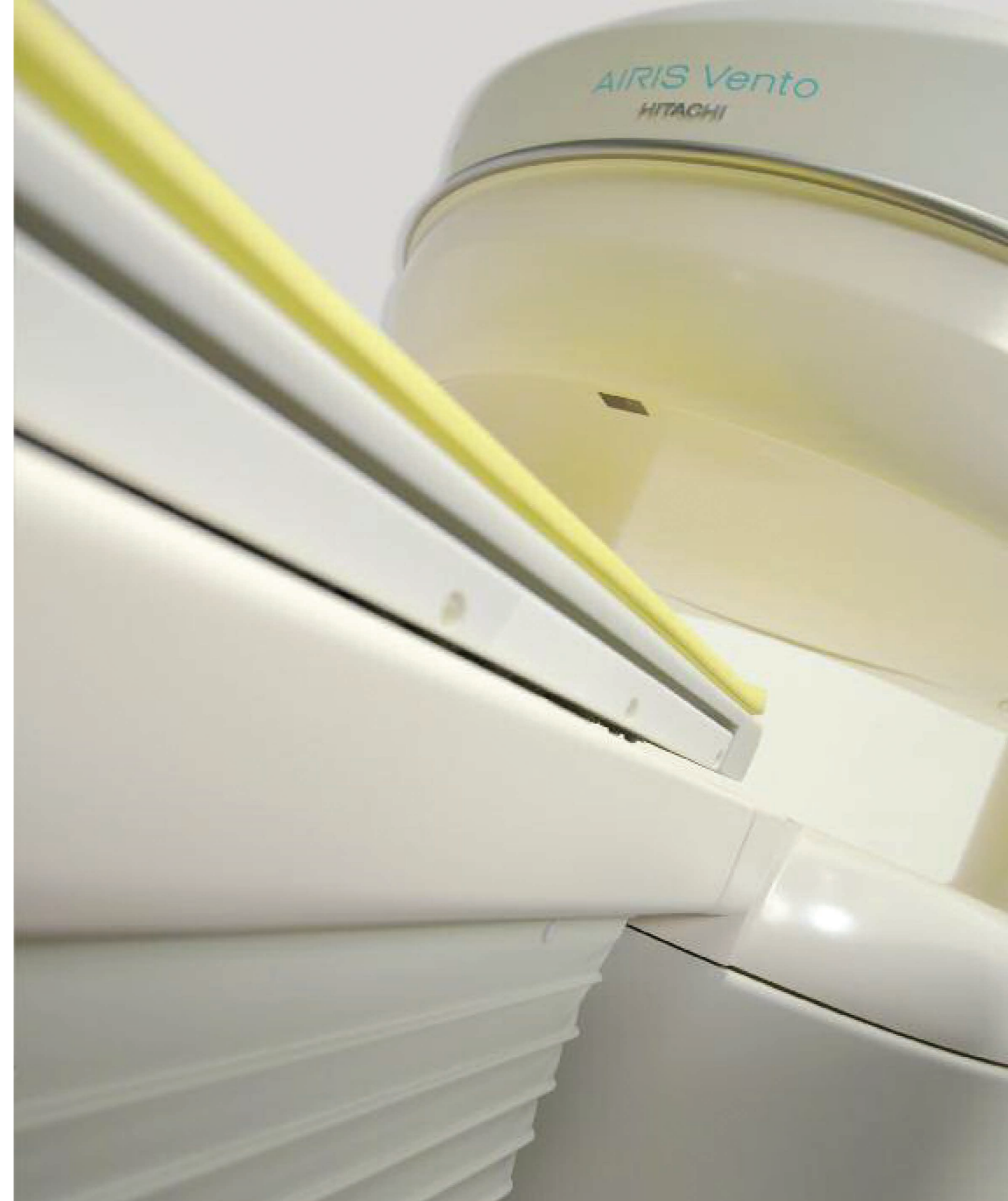
Services such as our 360° educational programme, the Hitachi Medical Systems Technology Academy, offering tailor-made, added-value services and solutions for professionals in all fields of medicine and other interested groups.



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We abide by our corporate philosophy which believes that we have a social responsibility to protect our environment, so that the next generation has a firm grounding on which to build a secure future.



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