Features of the Siemens MAGNETOM Espree Pink 1.5T MRI

The Siemens MAGNETOM Espree 1.5T MRI is the best selling Open-Bore MRI on the market. The Espree offers exceptional patient comfort, superior high-quality images, and seamless clinical workflow. The Espree provides extraordinary performance, patient satisfaction, and a very wide range of clinical applications that further enable your facility. It features a wide, 70 cm bore, short 125 cm length, 1.5 Tesla magnet, and Siemens Total Imaging Matrix technology that offers the comprehensive range of clinical applications.

Business of Siemens MAGNETOM Espree Pink 1.5T

Pink Workflow for Breast Exams with Sentinelle Vanguard - The prominent feature of the Siemens Espree Pink 1.5T MRI scanner is the Sentinelle Vanguard coil. It was designed exclusively for Siemens and is now an integral part of the Siemens Espree Pink 1.5T MRI. The Sentinelle Vanguard coil technology combined with the system's dedicated multi-modality workplace offers a powerful solution that provides outstanding versatility and speed that gives you the correct information when you need it.

Sentinelle Vanguard for Siemens

The popular and widely used technology of the 2, 4, and 8-channel Sentinelle Breast Coil offers outstanding image quality and optimal access for biopsy. The Sentinelle Vanguard provides improved interventional accuracy and shorter exams through an optimized workflow. The Sentinelle Vanguard is built with variable coil geometry that accommodates a full range of patient sizes and increases comfort. The system also offers exceptional signal-to-nose ratio, delivering the best image quality.

Siemens MAGNETOM Espree Pink 1.5T Applications

**syngo VIEWS** - Volume Imaging with Enhanced Water Signal provides isotropic imaging protocols with high temporal and high spatial resolution as well as exceptional fat suppression. With the syngo VIEWS you are enabled to acquire images bilaterally and unilaterally with excellent coverage of the retrosternal axillae.

**syngo REVEAL** - Staging the extent of disease is crucial in ensuring the best possible patient care. syngo REVEAL is a MR diffusion technique that improves specificity. The system acquires ADC maps that allow you to view potentially malignant lesions and metastatic infiltrations of lymph nodes and residual or recurrent tumors.

**syngo BLADE** - A unique method of compensating for motion in non-dynamic data acquisitions - By acquiring radial blades, the system measures and corrects motion artifacts, giving clear, high
resolution images. syngo BLADE also works in all contrasts and is iPAT-compatible. This will shorten exams and lead to minimized motion artifacts. Avoid repeated studies due to patients with anxiety and motion artifacts to improve workflow and throughout.

**syngo GRACE** - Often found in malignant breast lesions on MR spectroscopy are high levels of choline. The syngo GRACE system is dedicated to breast evaluation. It includes two push-button methods for relative quantification of the total choline signal in the breast: external (sample) and internal (water) references. syngo GRACE produces an accurate value of the choline signal - independent of measurement conditions. This system can provide data about treatment efficacy which helps improve therapy monitoring.

**Extended Clinical Possibilities**

- Easy access in Interventional MRI exams
- More opportunity to conduct kinematic exams

**Study a Wider Range of Patients**

- Claustrophobic patients
- CU patients or those dependent on medical equipment
- Obese patients (up to 250 kg/ 500 lbs)
- Pediatric patients
- Elderly patients

**Greater Patient Comfort - Ease**

- Large, 70 cm open-bore
- An extra 30 cm of space above the face (more than double the average)
- Head-out exams - Head out for 60% of routine applications

**Extended Accommodations for Patients with Special Conditions and Needs**

- Mobility Issues
- Pain Issues
- Respiratory Problems
- Kyphosis

**Tim (Total Imaging Matrix) for the Espree Pink 1.5T MRI**
The Tim system, integrated into the Siemens Espree 1.5T, was created to increase imaging/clinical speed, flexibility, and accuracy to make workflow more efficient and productive. Tim is based on the most innovative RF technology integrated with a different Matrix coil design. Tim is known as a leading advancement in MRI technology.

- **Flexibility**
  The Siemens MAGNETOM Espree Pink 1.5T includes up to 76 integrated matrix coil elements and up to 32 independent RF channels combined to create Tim, the Total Imaging Matrix. Tim is adjustable to the pathology under examination and the individual.

- **Accuracy**
  Matrix coils unleash the high SNR (Signal-to-Noise ratio) only local coils provide. Tim is ultra precise from whole-body to single organ exams from 205 cm FoV down to 5 mm. This is all done without patient repositioning, for all clinical applications, and with up to 100% more signal-to-noise ratio.

- **Speed**
  The Siemens MAGNETOM Espree Pink 1.5T Tim system offers exceptional speed, parallel in all directions, from head to toe, side to side, and front to back, with up to PAT 16, even for double oblique slice orientation. The system offers no restrictions in coverage and the high SNR of standard Matrix coils.

Siemens MAGNETOM Espree Pink - Standard Tim Application Suite
Neuro; Ortho; Body; Angio; Breast; Cardiac; Oology; Pediatric

Tim's Advanced Applications
- Body Diffusion Imaging
- Detect Micro-Hemorrhages
- Improved pre-operative screening
- Advanced tissue imaging
- Cutting-edge motion correction
- 3D imaging in all contrasts
- Non-contrast enhanced angiography
- Non-contrast enhanced perfusion

Other Features of the Siemens MAGNETOM Espree 1.5T
- The compact size offers low siting costs - The magnet, equipment and control room fit into 27m² / 290 sq ft
- Zero helium boil-off minimizes life-cycle costs
- Low cooling requirement
- Low power requirement
- Tim offers increased patient throughput with short examination times
- Higher Return on Investment*
Technical Specs - Siemens MAGNETOM Espree Pink 1.5T MRI

Magnet

- Very compact 1.5 Tesla Magnet
- Length: 120 cm (47.2 in)
- Inner Bore Width: 70 cm (27.6 in)
- Magnet Weight (Including Helium): approx. 3800 kg (8377 lbs)
- Unique CT-like 70 cm Open-Bore diameter with high homogeneity over 30 cm

Sentinelle Vanguard for the MAGNETOM Espree Pink 1.5T

General Specs

- Breast cushion set
- Contralateral support plate for use in all unilateral biopsy
- Height adjustable head rest
- Head rest cushion
- Immobilization plate
- Patient Frame
- Riser
- Two 3-channel diagnostic insert coils; two 1-channel biopsy insert coils; one 2-channel medial oil
- The coil can be used in the following configurations: 8-channel diagnostic imaging; 4-channel biopsy (bilateral); 2-channel biopsy (unilateral)

Clinical Applications

- High-resolution 2D and 3D imaging
- Good iPAT capabilities, iPAT factors up to 3
- Simultaneous imaging of both breasts in all directions
- Unilateral or bilateral imaging of the breasts in sagittal direction
- Unilateral biopsy imaging for lateral and medial access

Computer

Siemens’ syngo - Highly intuitive cross-modality user interface - the basis for all MAGNETOM Espree with l-class applications. syngo computer enables you to expand your capabilities in every clinical field
Siting

- 27 sqm (290 sq ft) floor only
- No computer room is required for a total of two water-cooled electronics cabinets