



# MAGNETOM Spectra

**Peripheral Angio 36**

[www.siemens.com/spectra](http://www.siemens.com/spectra)

**SIEMENS**

Preliminary Edition - 2/2012

## Peripheral Angio 36

### General

- 36-channel design with 36 integrated pre-amplifiers, distributed over 6 planes with 6 elements each
- Operates in an integrated fashion with Body 6 coils and with the Spine 24 and for whole-body examinations also with the Head/Neck 16
- Can be utilized head and feet first
- Both legs are independently covered with coil elements, maximizing the coil filling factor and the signal-to-noise ratio
- No coil tuning
- iPAT-compatible in all directions
- Dual-Density Signal Transfer enables ultra-high density coil designs by integrating key RF components into the local coil
- SlideConnect™ technology for easy coil set up
- One cable only for easy handling



### Applications

- High resolution angiography of both legs with highest signal-to-noise ratio
- Bilateral examinations of long bones of the legs

### Typically combined with

- Head/Neck 16
- Body 6
- Spine 24
- Flex Large 4
- Flex Small 4

### Weight

8 kg

### Dimensions (L x W x H)

860 mm x 300–640 mm x 280 mm

The product might not be approved in some countries or, for other reasons, not yet commercially available.

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# MAGNETOM Spectra

**Hand/Wrist 16**

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Preliminary Edition 2/2012

## Hand/Wrist 16

### General

- 16-channel coil with 16 integrated preamplifiers
- iPAT-compatible in all directions
- Hinged design of the upper part for quick and easy patient positioning
- Stabilization pads for comfortable positioning
- Holder allows off-center positioning to ensure a comfortable position for the patient
- No coil tuning
- Dual-Density Signal Transfer enables ultra-high density coil designs by integrating key RF components into the local coil
- SlideConnect™ technology for easy coil set up



|                         |  |                                   |
|-------------------------|--|-----------------------------------|
| Applications            | High resolution hand and wrist imaging   |                                   |
| Typically combined with | <ul style="list-style-type: none"> <li>• Body 6</li> <li>• Flex Large 4</li> <li>• Flex Small 4</li> </ul> |                                   |
| Weight                  | Coil   | approx. 2.8 kg                    |
|                         | Base plate   | approx. 1.6 kg                    |
| Dimensions (L × W × H)  | Coil   | approx. 332 mm × 215 mm × 115 mm  |
|                         | Base plate   | approx. 524 mm × 313 mm × 30.5 mm |

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# MAGNETOM Spectra

**Foot/Ankle 16**

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Preliminary Edition - 2/2012

## Foot/Ankle 16

### General

- 16-channel coil with 16 integrated preamplifiers
- iPAT-compatible in all directions
- Boot-like coil design
- Cable-less coil with DirectConnect™ technology
- Stabilization pads for comfortable patient positioning
- No coil tuning
- Dual-Density Signal Transfer enables ultra-high density coil designs by integrating key RF components into the local coil

### Applications

High resolution foot and ankle imaging

### Weight

Coil 3.2 kg

Base plate 7.1 kg

### Dimensions (L × W × H)

Coil 410 mm × 330 mm × 390 mm

Base plate 427 mm × 333 mm × 383 mm



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# MAGNETOM Spectra

**Shoulder Large 16**  
**Shoulder Small 16**

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Preliminary Edition - 2/2012



## Shoulder Large 16 and Shoulder Small 16

- General**
- Two 16-channel coils to cover small and large shoulder anatomy, – each with 16-channel coil design with 16 integrated preamplifiers
  - For narrow or wide shoulders the coil can be attached at different positions on the base plate
  - Includes one base plate pad for high patient comfort
  - No coil tuning
  - iPAT-compatible in all directions
  - Dual-Density Signal Transfer enables ultra-high density coil designs by integrating key RF components into the local coil
  - SlideConnect™ technology for easy coil set up

- Applications**
- Best visualization of small anatomical structures (e.g. labrum)
  - Higher SNR and better field homogeneity
  - Reduced slice thickness and measurement times

|                       |                   |                    |                 |
|-----------------------|-------------------|--------------------|-----------------|
| <b>Technical Data</b> | Shoulder Large 16 | Opening            | 200 mm          |
|                       |                   | Weight             | 2.3 kg          |
|                       | Shoulder Small 16 | Opening            | 165 mm          |
|                       |                   | Weight             | 2.2 kg          |
|                       | Base plate        | Dimensions (L x W) | 445 mm x 490 mm |
|                       |                   | Weight             | Approx. 5 kg    |



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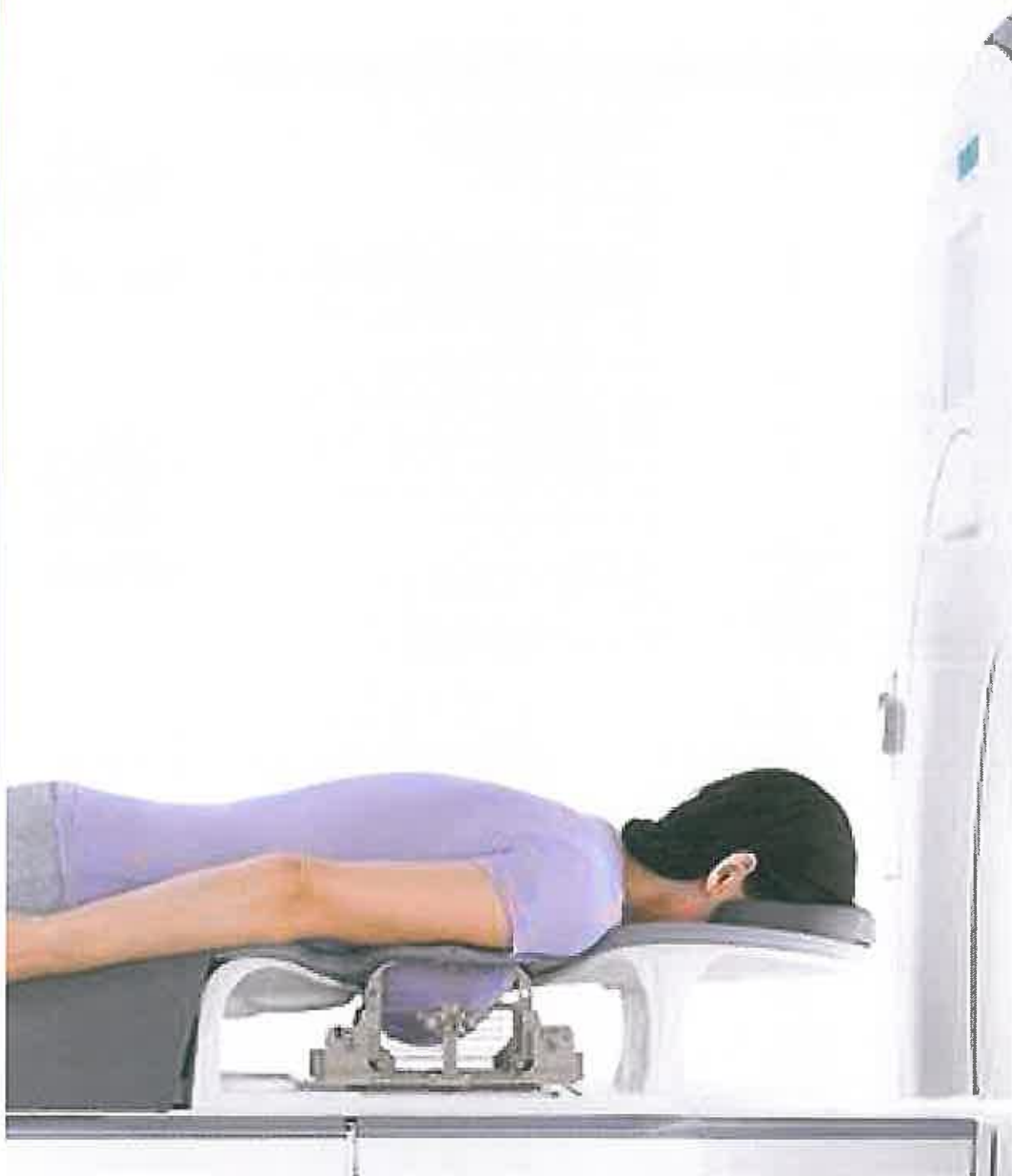
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# MAGNETOM Spectra

**4-Channel BI Breast Coil**

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**SIEMENS**

## 4-Channel BI Breast Coil

### General

- Frame
- 2-channel insert plate coil
- 2-channel patient pad coil
- Positioning cushion
- Head rest
- Biopsy plate
- Biopsy set: biopsy box; 2 fixation units (grid and post/pillar); positioning system including 2 needle adapter tubes and oil marker
- Tim Coil Interface 3T needed to connect coil with scanner (optional)
- Spine 24 can remain on the table

### Applications

- Simultaneous basic imaging of both breasts in all directions
- Uni- or bi-lateral basic imaging of the breasts in sagittal direction
- Uni-lateral biopsy imaging for lateral, medial, and cranio-caudal access

### Typically combined with

- Flex Large 4
- Flex Small 4

### Weight (coil and frame)

10 kg

### Dimensions (L x W x H)

880 mm x 470 mm x 210 mm



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# MAGNETOM Spectra

**16-Channel AI Breast Coil**

[www.siemens.com/spectra](http://www.siemens.com/spectra)

**SIEMENS**

01/2012

## 16-Channel AI Breast Coil

### General

- The coil consists of a 16-channel design with 16 integrated preamplifiers. The coil elements are arranged in arrays of 6 elements, plus an axilla element and a cup design element on each side.
- Frame
- Positioning cushion
- Head rest
- iPAT compatible
- Two Tim Coil Interfaces 3T needed to connect coil with scanner (both are optional)
- Spine 24 can remain on the table

### Applications

- Simultaneous imaging of both breasts in all directions
- Uni- or bi-lateral imaging of the breasts in sagittal direction
- High-resolution 2D and 3D MR breast imaging
- Unmatched iPAT capabilities, iPAT factors up to 4

### Weight (coil and frame)

11 kg

### Dimensions (L x W x H)

710 mm x 470 mm x 200 mm



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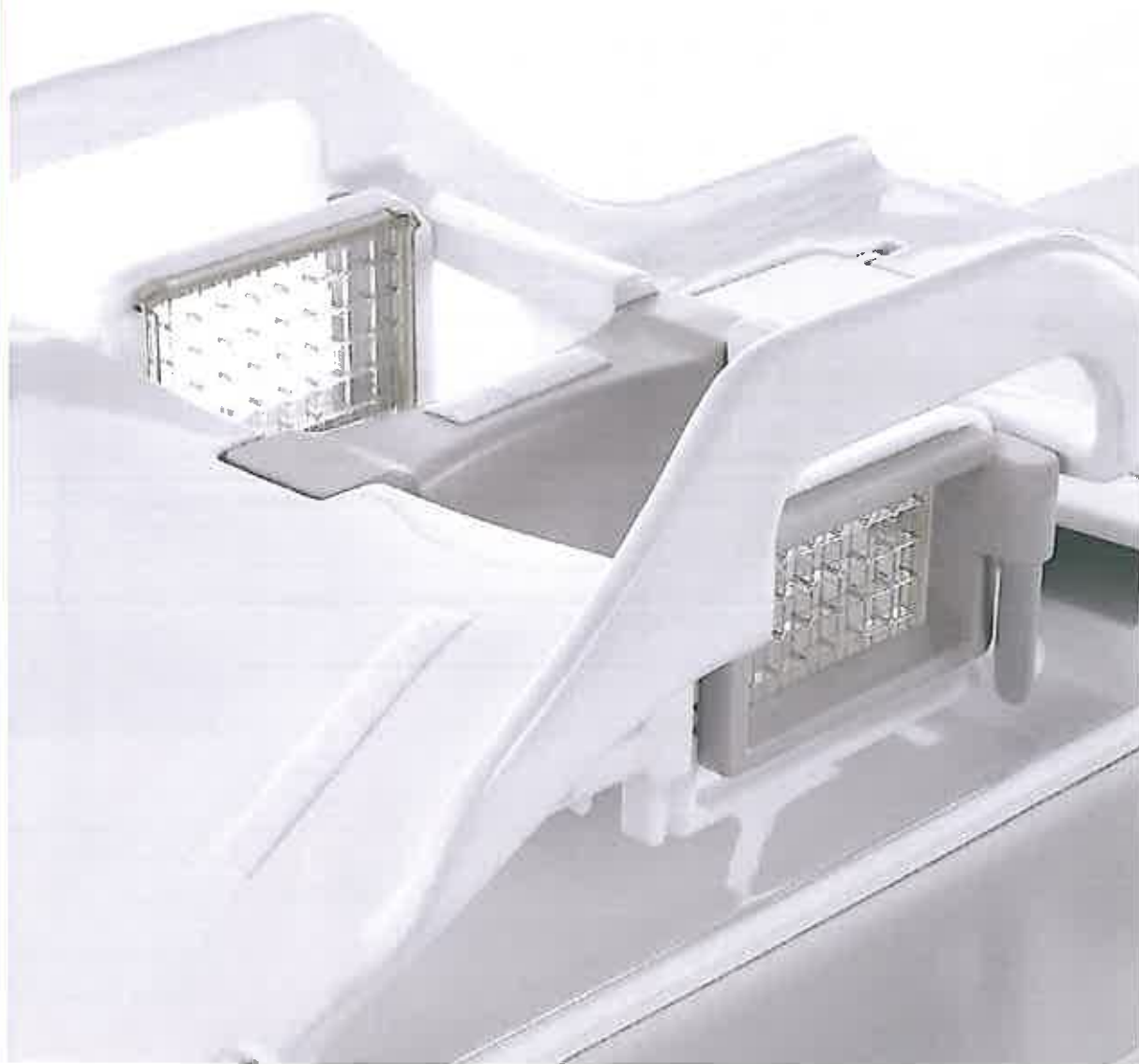
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# MAGNETOM Spectra

**Sentinelles Vanguard for Siemens  
2-/4-/8-Channel Configuration**

[www.siemens.com/spectra](http://www.siemens.com/spectra)

**SIEMENS**

Preliminary Edition - 2/2012

## Sentinelles Vanguard for Siemens (2-/4-/8-Channel Configuration)

### General

- Patient frame
- Immobilization plate
- Slider
- Two 3-channel diagnostic insert coils, two 1-channel biopsy insert coils, one 2-channel medial coil
- The coil can be used in the following configurations:
  - 8-channel diagnostic imaging,
  - 4-channel biopsy (bilateral),
  - 2-channel biopsy (unilateral)
- Breast cushion set
- Height adjustable head rest
- Contra-lateral support plate for use in unilateral biopsy
- Tim Coil Interface 3T needed to connect coil with scanner (optional)
- Biopsy set for training purposes (grid, marker and training needle kit)

### Applications

- Simultaneous imaging of both breasts in all directions
- Uni- or bi-lateral imaging of the breasts in sagittal direction
- Uni-lateral biopsy imaging for lateral and medial access
- High-resolution 2D and 3D imaging
- iPAT factors up to 3
- For quantitative spectroscopy (*syngo* GRACE) a reference bottle can be inserted.

### Combinable with

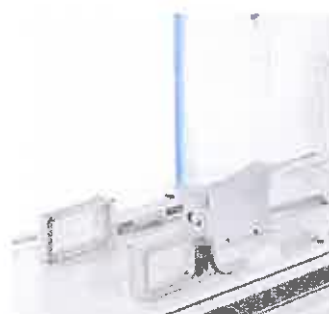
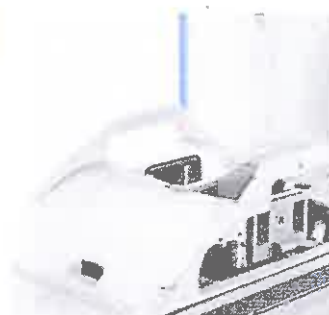
- Flex Lage 4
- Flex Small 4

### Weight

16 kg

### Dimensions (L x W x H)

1097 mm x 582 mm x 279 mm



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# MAGNETOM Spectra

**Sentinel Vanguard for Siemens  
8-Channel Configuration/Upgrade to Biopsy Configuration**

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### Sentinelles Vanguard for Siemens (8-Channel Imaging Configuration)

|              |   |
|--------------|---|
| General      | <ul style="list-style-type: none"> <li>• Patient frame</li> <li>• Immobilization plate</li> <li>• Slider</li> <li>• Two 3-channel diagnostic insert coils, one 2-channel medial coil</li> <li>• The coil can be used for 8-channel diagnostic imaging</li> <li>• Breast cushion set</li> <li>• Height adjustable head rest</li> <li>• Tim Coil Interface 3T needed to connect coil with scanner (optional)</li> <li>• Coil configuration functionally upgradable for biopsy (optional)</li> </ul> |
| Applications | <ul style="list-style-type: none"> <li>• Simultaneous imaging of both breasts in all directions</li> <li>• Uni- or bi-lateral imaging of the breasts in sagittal direction</li> <li>• High-resolution 2D and 3D imaging</li> <li>• iPAT factors up to 3</li> <li>• For quantitative spectroscopy (syngo GRACE) a reference bottle can be inserted.</li> </ul>   |

Combinable with Flex Large 4; Flex Small 4; Body 6

Weight 16 kg

Dimensions (L x W x H) 1097 mm x 582 mm x 279 mm

### Sentinelles Vanguard for Siemens Upgrade to Biopsy Configuration\* (Optional)

|         |   |
|---------|---|
| General | <ul style="list-style-type: none"> <li>• Two 1-channel biopsy insert coils, one 2-channel medial coil</li> <li>• The coil can be used in the following configurations: 4-channel biopsy (bilateral), 2-channel biopsy (unilateral)</li> <li>• Contra-lateral support plate for use in uni lateral biopsy needle kit)</li> </ul> |
|---------|---|

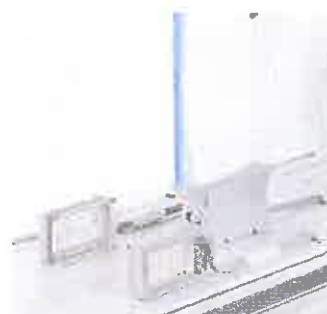
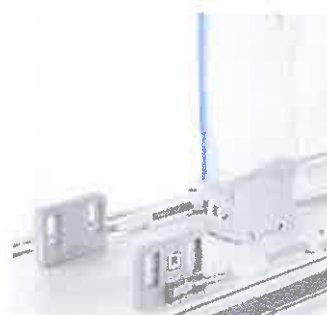
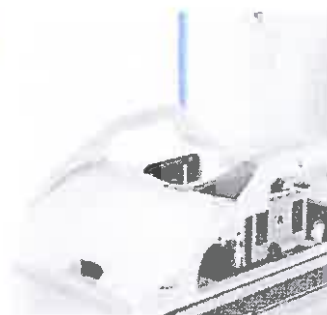
Applications Uni-lateral biopsy imaging for lateral and medial access

Combinable with Flex Large 4; Flex Small 4; Body 6

Weight 16 kg

Dimensions (L x W x H) 1097 mm x 582 mm x 279 mm

\* Prerequisite: 8-Channel Imaging Configuration



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# MAGNETOM Spectra

## Loop Coils

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Preliminary Edition - 2/2012

## Flex Coil Interface 3T

### General

- 4 integrated low-noise preamplifiers
- Allows flexible coil positioning
- Only one interface necessary for all Loop coils
- Several Flex Coil Interfaces can be used simultaneously
- Flex Coil Interface 3T needed to connect coil with scanner (optional)
- Dual-Density Signal Transfer enables ultra-high density coil designs by integrating key RF components into the local coil



## Loop Coils

|                         | Loop Coil, large   | Loop Coil, medium  | Loop Coil, small   |
|-------------------------|--|--|--|
| General                 | <ul style="list-style-type: none"> <li>• No coil tuning</li> <li>• iPAT-compatible in combination with other coils</li> </ul>  |  |  |
| Applications            | Examination of upper or lower extremities (e.g. shoulder, axilla)  | Examination of inner ear, structure of wrist and fingers, pediatrics examinations  | Examination of small structures near the surface (e.g. joints of fingers and toes, wrist, skin, temporo mandibular joints (TMJ))   |
| Typically combined with | <ul style="list-style-type: none"> <li>• Head/Neck 16</li> <li>• Body 6</li> <li>• Spine 24</li> <li>• All flexible coils<sup>1)</sup></li> <li>• Endorectal coil</li> </ul> | <ul style="list-style-type: none"> <li>• Head/Neck 16</li> <li>• Body 6</li> <li>• Spine 24</li> <li>• All flexible coils<sup>1)</sup></li> <li>• Endorectal coil</li> </ul> | <ul style="list-style-type: none"> <li>• Head/Neck 16</li> <li>• Body 6</li> <li>• Spine 24</li> <li>• All flexible coils<sup>1)</sup></li> <li>• Endorectal coil</li> </ul> |
| Weight                  | 225 g  | 200 g  | 175 g  |
| Diameter                | 110 mm   | 70 mm  | 40 mm  |

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<sup>1)</sup> Second Flex Coil Interface 3T required

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# MAGNETOM Spectra

## Endorectal Coil

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**SIEMENS**

Preliminary Edition, 2012

## Endorectal Coil

|                         |   |
|-------------------------|---|
| General                 | <ul style="list-style-type: none"><li>• The endorectal coil kit is connected via adapter with Tim Coil Interface 3T (optional)</li><li>• Interface device for connecting either the prostate receive coil</li><li>• No coil tuning</li><li>• Disposable</li></ul> |
| Applications            | <ul style="list-style-type: none"><li>• Excellent visualization of the prostate, colon, rectum and cervix without the risk of invasive procedures</li><li>• Non-invasive preoperative diagnostic evaluation and treatment planning</li></ul>                      |
| Typically combined with | <ul style="list-style-type: none"><li>• Body 6</li><li>• Spine 24</li><li>• All flexible coils</li></ul>  |
| Weight                  | 200 g   |



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