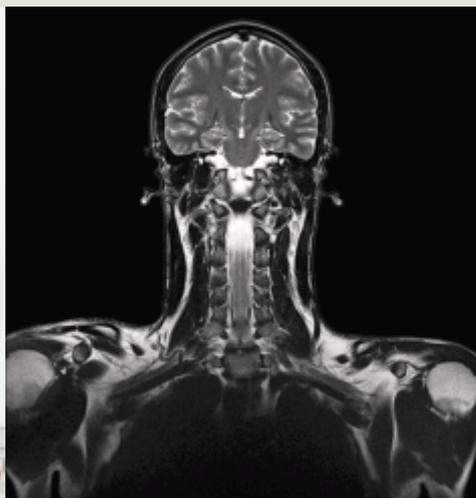
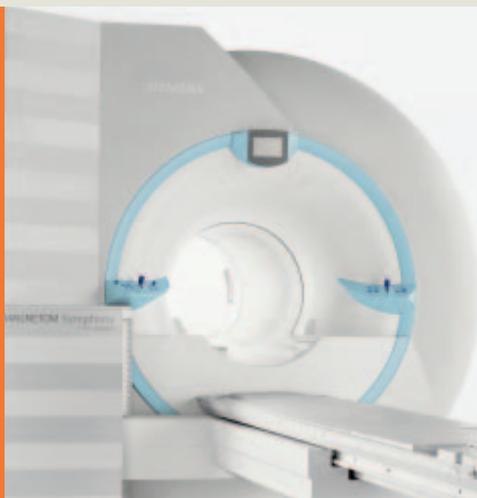


Data



## MAGNETOM Symphony, A Tim System Matrix Coils



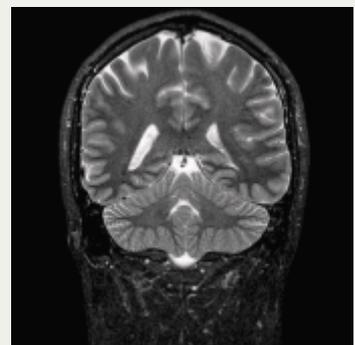
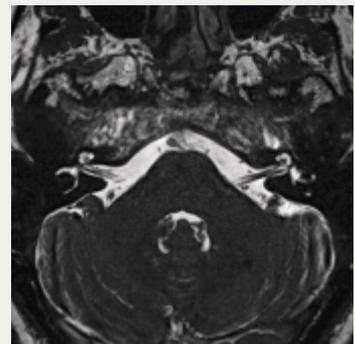
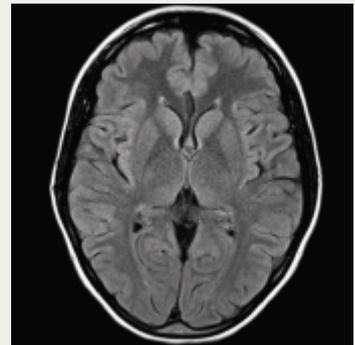
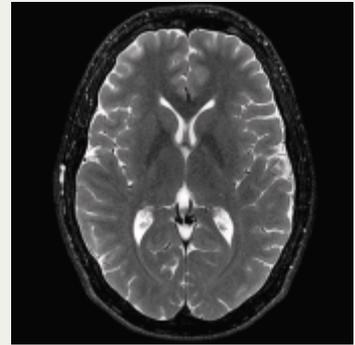
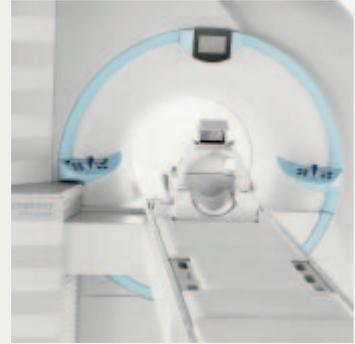
## ■ Head Matrix Coil

The Head Matrix coil is part of the standard system configuration.

- 12-element design with 12 integrated preamplifiers, two rings of 6 elements each (i.e. 4 clusters of 3 elements each)
- Upper coil part removable
- Lower coil part usable without upper part
- Lower coil part may stay on the patient table for most of the examinations
- Smoothly integrated into the patient table with Neck Matrix coil and Spine Matrix coil
- Open patient-friendly design
- Cushioned head stabilizers (removable)
- No coil tuning
- iPAT-compatible
- Detachable double mirror

### Applications:

- Head examination
- MR Angiography
- Combined head/neck examination
- TMJ (temporo mandibular joints)

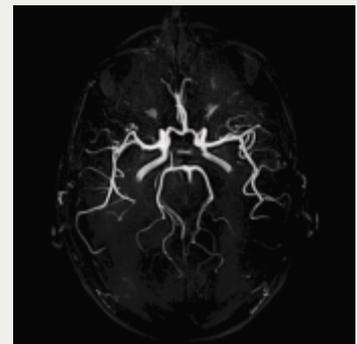
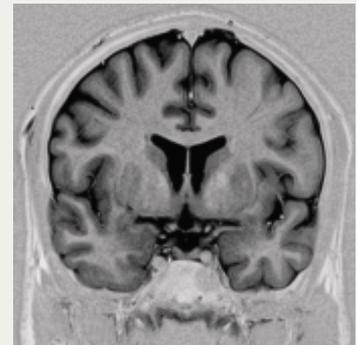
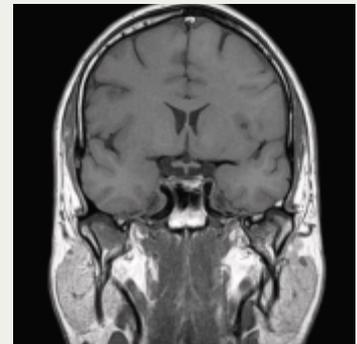


**Can be combined with:**

- Neck Matrix coil
- Spine Matrix coil
- Body Matrix coils (up to 4; optional)
- PA Matrix coil (optional)
- All flexible coils (e.g. CP Flex coil, small, CP Flex coil, large)

**Matrix Coil Mode:**

- 4-channel CP Mode,
- 8-channel Dual Mode
- 12-channel Triple Mode
  
- Weight: 5 kg
- Dimensions: 300 mm x 300 mm x 280 mm (LxWxH)





### ■ Neck Matrix Coil

The Neck Matrix coil is part of the standard system configuration.

- 4-element design with 4 integrated preamplifiers, 2 clusters of 2 elements each
- Upper coil part removable
- Lower coil part may stay on the patient table for most of the examinations
- Operates in an integrated fashion with the Head Matrix coil and Spine Matrix coil, for coverage of the posterior and anterior neck region
- No coil tuning
- iPAT-compatible

#### Applications:

- Cervical Spine
- Neck
- Larynx/Esophagus
- MR Angiography
- Mediastinum
- Combined head/neck examination

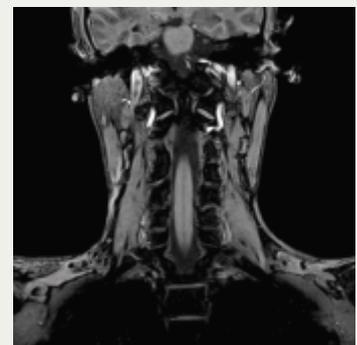
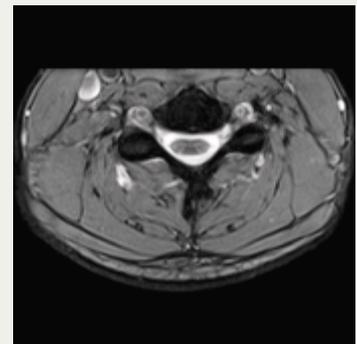
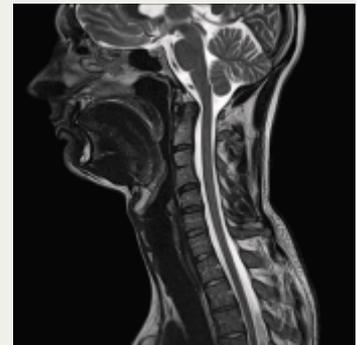
#### Can be combined with:

- Head Matrix coil
- Spine Matrix coil
- Body Matrix coils (up to 4; optional)
- PA Matrix coil (optional)
- All flexible coils (e.g. CP Flex coil, small, CP Flex coil, large)

#### Matrix Coil Mode:

- 2-channel CP Mode,
- 4-channel Dual or Triple Mode

- Weight: 2.6 kg
- Dimensions:
  - 190 mm × 330 mm × 332 mm (L×W×H)



**Spine Matrix Coil**

The Spine Matrix coil is part of the standard system configuration.

- 24-element design with 24 integrated preamplifiers, 8 clusters of 3 elements each
- Smoothly integrated into the patient table and streamlined with Head Matrix coil and Neck Matrix coil
- May remain on the patient table for almost all exams
- No coil tuning
- iPAT-compatible

**Applications:**

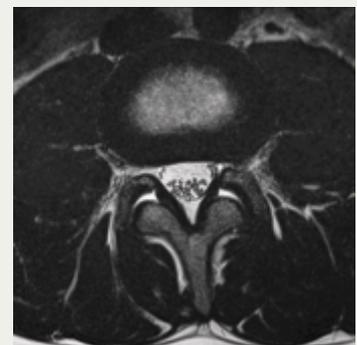
- High resolution imaging of the whole spine
- Various applications in combination with additional coils

**Can be combined with:**

- Head Matrix coil
- Neck Matrix coil
- Body Matrix coils (up to 4; optional)
- PA Matrix coil (optional)
- All flexible coils (e.g. CP Flex coil, small, CP Flex coil, large)

**Matrix Coil Mode:**

- 8-channel CP Mode,
- 16-channel Dual Mode
- 24-channel Triple Mode
- Weight: 11 kg; may remain on the patient table for almost all exams
- Dimensions: 1185 mm x 485 mm x 33 mm (LxWxH)





## Body Matrix Coil

- 6-element design with 6 integrated preamplifiers, with 2 clusters of 3 elements each
- Operates in an integrated fashion with the Spine Matrix coil (2 rings of 6 elements each = 12-element design)
- Can be combined with further Body Matrix coils for larger coverage
- No coil tuning
- iPAT-compatible

### Applications:

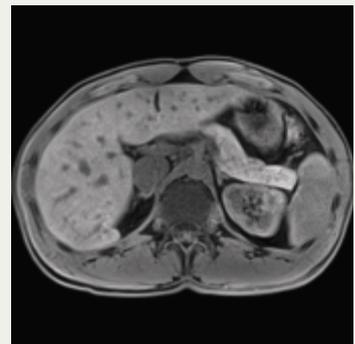
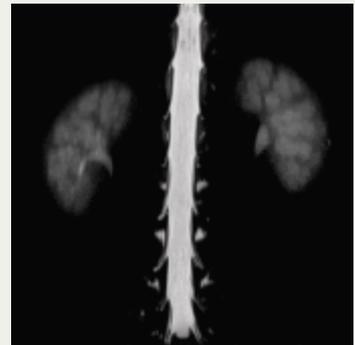
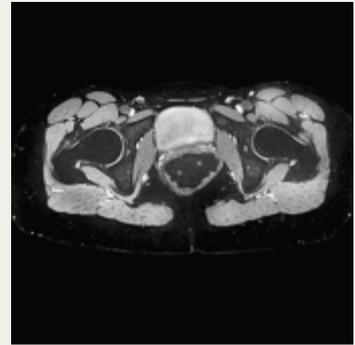
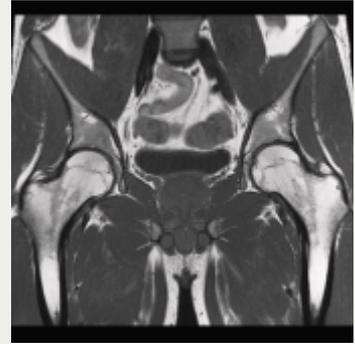
- Thorax (incl. heart)
- Abdomen
- Pelvis
- Hip

### Can be combined with:

- Head Matrix coil
- Neck Matrix coil
- Spine Matrix coil
- Additional Body Matrix coils (typically 2–3 in total)
- PA Matrix coil (optional)
- All flexible coils (e.g. CP Flex coil, small, CP Flex coil, large)
- CP Head Array coil
- Endorectal coils

### Matrix Coil Mode:

- 2-channel CP Mode,
  - 4-channel Dual Mode
  - 6-channel Triple Mode
- which results in 4-, 8-, or 12-channel body imaging in combination with the Spine Matrix.
- Weight: 2 kg; "patient-felt" weight of coil only 950 g
  - Dimensions: 322 mm × 520 mm × 70 mm (L×W×H)



■ **PA Matrix Coil**  
(Peripheral Angio Matrix coil)

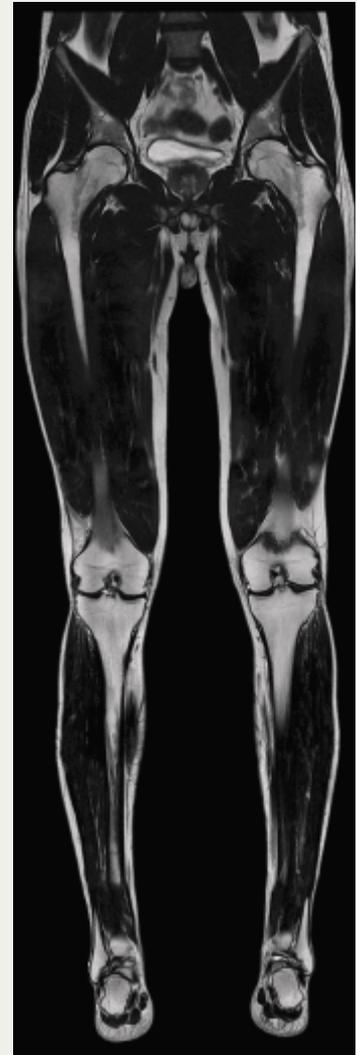
- 16-element design with 16 integrated preamplifiers, in 8 CP pairs, i.e. 4 levels with 2 CP elements each
- Operates in an integrated fashion with the Body Matrix coils and Spine Matrix coil and for Whole-Body examinations also with the Head and Neck Matrix coil
- Automatic table feed and active coil switch
- 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
- Includes special non-ferromagnetic coil cart for safe, user-friendly storage
- iPAT-compatible

**Applications:**

- High resolution angiography of both legs incl. pelvis with highest signal-to-noise ratio
- Visualization of the iliac arteries and aorta

**Can be combined with:**

- Head Matrix coil
- Neck Matrix coil
- Spine Matrix coil
- Body Matrix coils (up to 3)
- All flexible coils (e.g. CP Flex coil, small, CP Flex coil, large)
- Weight: 5.75 kg
- Dimensions: 970 mm × 300–600 mm × 270 mm (L×W×H)



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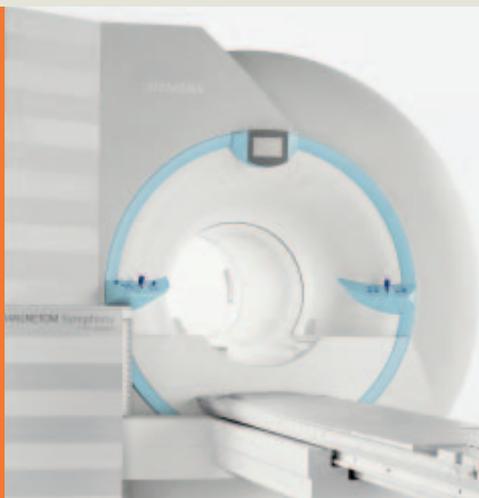
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**MAGNETOM Symphony, A Tim System  
Flexible Coils**



### Flex Coil Interface

A Flex Coil Interface is part of the standard system configuration

- Integrated dual ultra low-noise preamplifiers
- Allows flexible coil positioning
- Only one interface necessary for all Flex coils
- Several Flex Coil Interfaces can be used simultaneously to connect several Flex coils

### CP Flex Coil, large

A large CP Flex Coil is part of the standard system configuration

- Wrap-around coil made from soft and flexible material
- Circularly polarized
- No coil tuning
- iPAT-compatible in combination with other coils

#### Applications:

- Imaging of large regions such as medium to large shoulders, hip and knee

#### Can be combined with:

- All Matrix coils
- All flexible coils (second Flex Coil Interface required)
- CP Head Array coil
- Double Loop Array coil
- Endorectal coils

- Weight: 400 g
- Dimensions: 210 mm x 520 mm

### CP Flex Coil, small

A small CP Flex Coil is part of the standard system configuration

- Wrap-around coil made from soft and flexible material
- Circularly polarized
- No coil tuning
- iPAT-compatible in combination with other coils

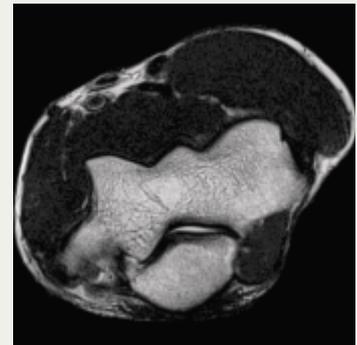
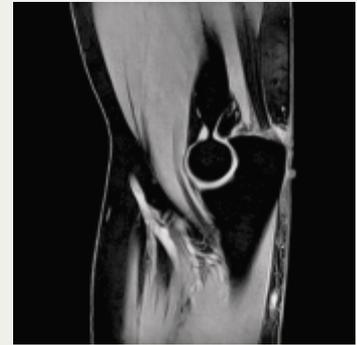
#### Applications:

- Imaging of small regions such as small to medium shoulders, wrist, elbow and ankle

#### Can be combined with:

- All Matrix coils
- All flexible coils (second Flex Coil Interface required)
- CP Head Array coil
- Double Loop Array coil
- Endorectal coils

- Weight: 300 g
- Dimensions: 170 mm x 360 mm



■ Loop Flex Coil, large

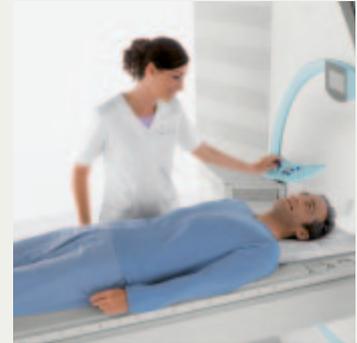
- Flexible circular coil
- No coil tuning
- iPAT-compatible in combination with other coils

**Applications:**

- Examination of upper or lower extremities (e.g. shoulder, axilla)
- Breast Biopsy in combination with the optional Breast Biopsy Device

**Can be combined with:**

- All Matrix coils
- All flexible coils (second Flex Coil Interface required)
- CP Head Array coil
- Double Loop Array coil
- Endorectal coils
- Weight: 400 g
- Diameter: 190 mm



■ Loop Flex Coil, small

- Small circular coil
- No coil tuning
- iPAT-compatible in combination with other coils

**Applications:**

- Examination of small structures near the surface (e.g. joints of fingers and toes, wrist, skin, temporo mandibular joints (TMJ))

**Can be combined with:**

- All Matrix coils
- All flexible coils (second Flex Coil Interface required)
- CP Head Array coil
- Double Loop Array coil
- Endorectal coils
- Weight: 100 g
- Diameter: 40 mm



■ Endorectal Coil and Interface

- Interface device for connecting either the prostate, colon, or cervix receive coil
- The endo coil is plugged into the endo interface which is then plugged into the Flex Coil Interface
- No coil tuning
- Disposable
- iPAT-compatible in combination with other coils

**Applications:**

- Excellent visualization of the prostate, colon, rectum and cervix without the risk of invasive procedures
- Non-invasive preoperative diagnostic evaluation and treatment planning

**Can be combined with:**

- Body Matrix coil
- All additional flexible coils (second Flex Coil Interface required)
- Weight: 200 g



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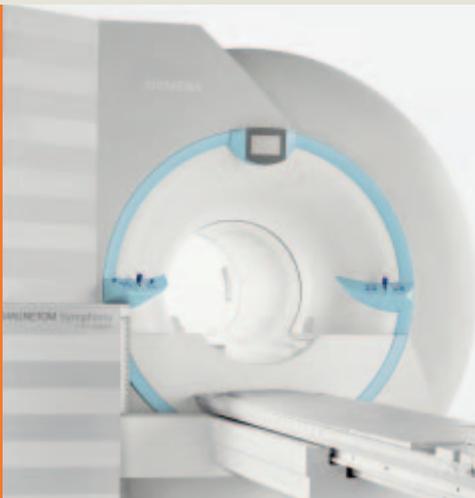
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**MAGNETOM Symphony, A Tim System  
Dedicated Coils**



### ■ CP Breast Array

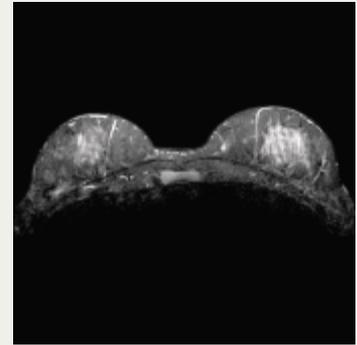
- 4-element design (2 CP pairs) with 4 integrated preamplifiers
- Padded for imaging in prone position
- Stabilizing pads for wide anatomical variations
- Mediolateral compression capability
- No coil tuning
- iPAT-compatible

#### Applications:

- Simultaneous high resolution imaging of both breasts in all directions
- Imaging of one or both breasts in sagittal direction
- Visualization of axilla region

#### Can be combined with:

- All flexible coils (e.g. CP Flex coil, small, CP Flex coil, large)
- Weight: 7.1 kg
- Dimensions: 500 mm × 530 mm × 145 mm (L×W×H)



### ■ Shoulder Array Coil

- 4-coil design with 4 integrated preamplifiers
- Two coils are included, one for small and one for large shoulders
- For narrow or wide shoulders the coil can be attached at different positions on the base plate
- Includes one base plate pad and one head rest for high patient comfort
- No coil tuning
- iPAT-compatible

#### Applications:

- Best visualization of small anatomical structures (e.g. labrum)

- Higher SNR and better field homogeneity
- Reduced slice thickness and measurement times

#### *Small Shoulder Array Coil*

- Opening: 165 mm
- Weight: 1.3 kg

#### *Large Shoulder Array Coil*

- Opening: 200 mm
- Weight: 1.6 kg

#### *Base plate*

- Dimensions: 445 mm × 490 mm (L×W)
- Weight: approx. 5 kg



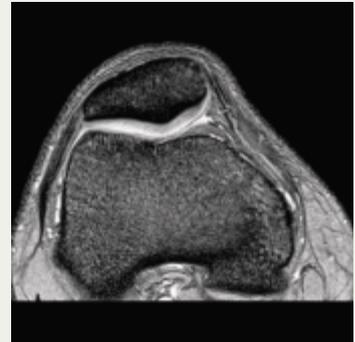
### ■ CP Extremity Coil

- Transmit/receive coil
- CP coil with 2 integrated preamplifiers
- Upper coil part removable
- Holder allows off-center positioning to keep knee or foot which is not under examination in a comfortable position
- No coil tuning

#### **Applications:**

- Knee
- Ankle
- Peripheral MR Angiography

- Weight: 6.5 kg
- Dimensions:  
405 mm × 270 mm × 290 mm  
(L×W×H)



### ■ 8-Channel Knee Coil

- 8 element coil with 8 integrated preamplifiers
- iPAT compatible
- Upper coil part removable
- Holder allows off-center positioning to ensure a comfortable position for the patient
- No coil tuning

#### **Applications:**

- High resolution knee or elbow imaging

- Weight: 5 kg
- Dimensions:  
400 mm × 420 mm × 310 mm  
(L×W×H)



■ Double Loop Array Coil

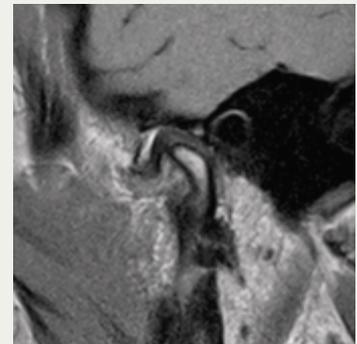
- Circular coil pair with Double-Loop Array Holder
- No coil tuning
- Extra arm rest for wrist imaging
- iPAT-compatible

**Applications:**

- Simultaneous visualization of the left and right TMJs (temporo mandibular joints) with high resolution
- High resolution imaging of the eye
- High resolution imaging of the wrist

**Can be combined with:**

- Body Matrix coils
- All flexible coils (e.g. CP Flex coil, small, CP Flex coil, large)
- CP Head Array coil
- Weight: 1.1 kg
- Dimensions: 82 mm × 135 mm × 82 mm (L×W×H)



■ CP Head Array

- CP coil design with 2 integrated preamplifiers
- Upper coil part removable
- Lower coil part usable without upper part
- Open patient-friendly design
- Highly homogenous illumination
- No coil tuning
- Cushioned head stabilizers (removable)
- Detachable double mirror
- Also compatible with MAGNETOM Symphony and Sonata systems
- iPAT-compatible in combination with other coils

**Applications:**

- Head examinations
- Head examinations with utilization of a stereotactic frame
- Pediatric imaging

**Can be combined with:**

- Body Matrix coil
- All additional flexible coils (e.g. CP Flex coil, small, CP Flex coil, large)
- Double Loop Array coil
- Weight: 5.7 kg
- Dimensions: 480 mm × 330 mm (L×W)

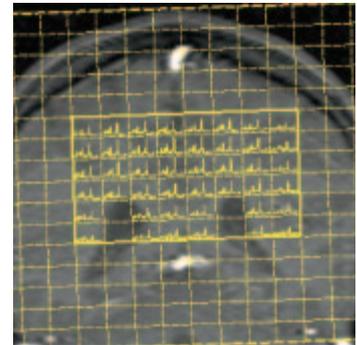
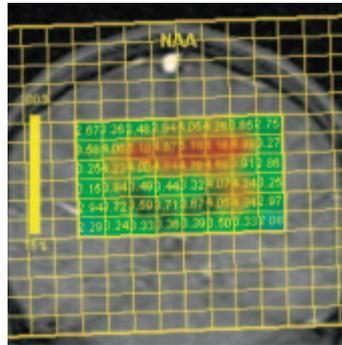
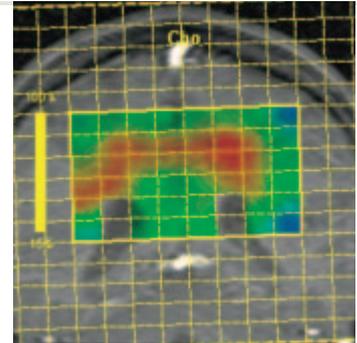
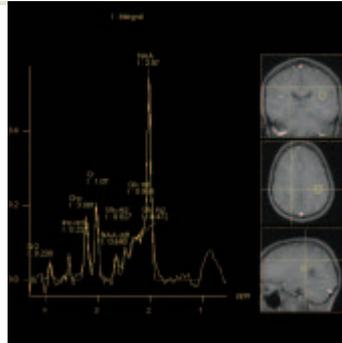


■ Quadrature Tx/Rx Head Coil

- CP Send/Receive head coil with integrated preamplifier
- Upper coil part removable
- Open patient-friendly design
- No coil tuning
- Cushioned head stabilizers (removable)
- Detachable double mirror (optional)

**Applications:**

- Head examinations
- High resolution brain spectroscopy
- Weight: 7 kg
- Dimensions: 400 mm × 360 mm × 360 mm (L×W×H)



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