

SIGNA PROFILE

OPEN MAGNETIC RESONANCE SYSTEM



GE Medical Systems

Signa Profile Smart, Pro and Adventium to keep you at the leading edge of technology

Like any other GE MR, Profile Smart, Pro and Adventium systems are built on the Signa foundation to deliver the speed and image quality. Quality features key characteristics such as:

- A wide open bore that can easily accommodate claustrophobic or large patients.
- A very high homogeneity magnet.
- New strong and fast gradient system at 15mT/m/s and SR 30 for fast scans, thin slices, small FOV and more slices per acquisition.
- A complete range of advanced coils including quadrature and multi-channel phased-array (Profile Pro).
- The most recent and advanced sequences like EPI, EPI diffusion, SSFSE (single-shot fast spin echo), FIESTA (fast imaging employing steady state acquisition).

Along with routine exam, the Profile accommodates advanced neuro exams, kinematic joint-motion studies (for knee, ankle, wrist, and cervical spine) and vascular imaging with interactive post-processing capabilities.

Today, Profile gives you access to the most exciting feature like:

- Elliptic centric ordering and EFGRE (enhanced fast gradient echo) for MR angio.
- Fat water separation (quadratic fat water separation technique) on all the main coils, for diagnostic accuracy.
- FIESTA (fast imaging employing steady state acquisition) for heavy T2 weighted images.
- FR-FSE, SSFSE, EPI for ultra-fast acquisition time.



The Signa Profile family: Smart, Pro and Adventium

The Profile family features a range of products combining an open design with the Signa capabilities: excellent image quality and advanced applications flexibility. What's more, this system addresses your needs for affordability and quick return on investment.

All Profile systems provide you with outstanding routine image quality in neurology, orthopedics, vascular and many other applications such as dynamic joint imaging and interventional procedures with the Open Body coil.

The new Signa Profile family includes:

- ***Signa Profile Adventium***

Ultra-fast gradients and advanced fast package enable the latest applications in neurology, vascular and orthopedy.

- ***Signa Profile Pro***

Phased-array coil and full fast sequence package give you access to the most advanced applications and ultra-fast gradients.

- ***Signa Profile Smart***

Ultra-fast gradients and fast sequence package enable excellent everyday neurology, orthopedics and vascular imaging.



Widening the Gap in Open MRI

Patient Comfort

Introducing the Signa Profile: the patient-friendly MRI system that virtually eliminates patient anxiety and claustrophobia, without compromising diagnostic utility.

A 40-cm field of view and a full open aperture enable offset scan and lateral decubitus.

Profile has a full open horizontal aperture of 120cm and a vertical opening of 44cm, and therefore offers patients more breathing room.

It provides a comfortable non-intimidating surrounding to the patient. Since the magnet is well “grounded” on all sides, the patient does not suffer from an additional anxiety of the magnet falling on him. Patients will easily undergo examinations for which they need no postural changes.

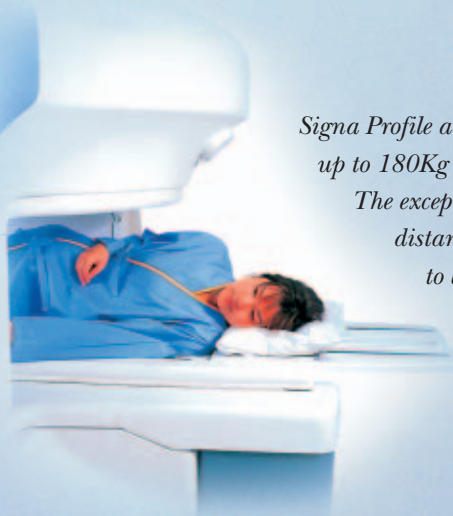
- Profile offers the openness for patient comfort without compromising uniformity for high image quality.
- The patient table is designed to move 24 centimeters from the right to the left, allowing off-center/scan.
- The Profile provides you with an intercom, a patient call button, a mirrored head coil and an optional Patient Comfort Module enabling additional ventilation and lighting.
- Moreover, Signa Profile is extremely quiet and let you feel relax minimising exams interruptions.



Signa Profile motor driven patient table also moves laterally to help technologist positioning patients faster. The width of the opening allows lateral movements for optimal shoulder exams.



Signa Profile accommodates patient up to 180Kg with a spacious aperture. The exceptional pole to pole distance allows patient to be in decubitus.



Dynamic joint imaging can be easily accomplished in Signa Profile's large opening.

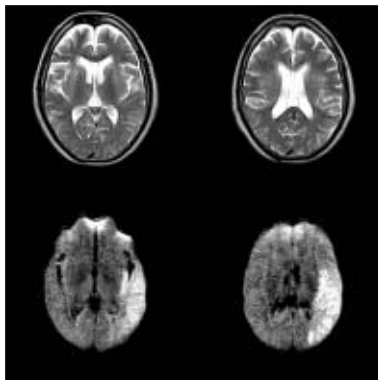


Head Coil



9 inch Coil

*Axial FSET2
versus axial Diffusion EPI*



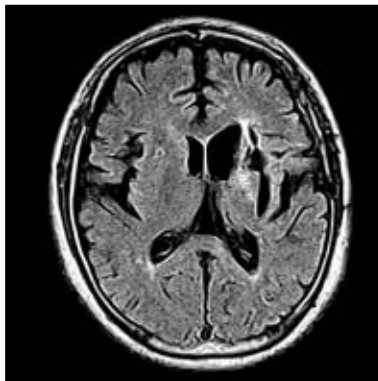
*Hypophyse
Cor SE T1*



Sagittal SE T1



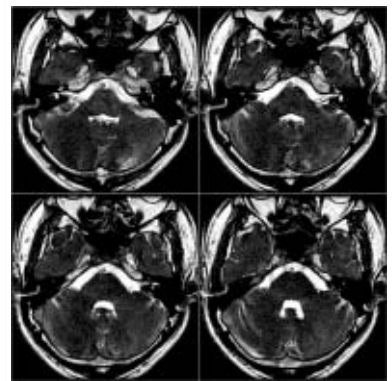
Sagittal SE T2



Axial FLAIR



Vascular 3D TOF



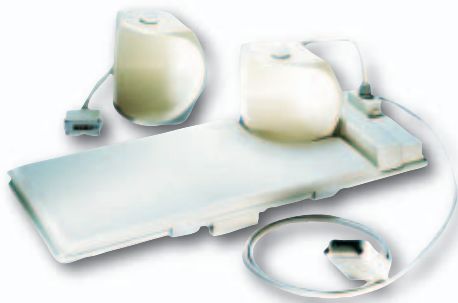
Axial 3D Fiesta



T2 Sagittal Spine



Neurovascular Coil



Shoulder Coil



Extremity Coil

Axial SE T1



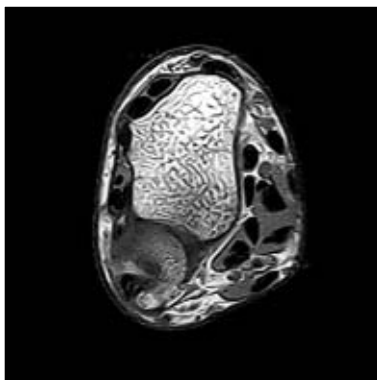
Coronal GRE



Sagittal SE T1



Sagittal SE T1

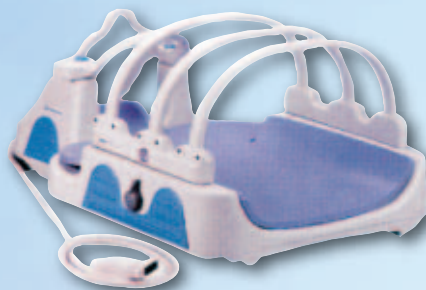


Axial SE T1

Coronal SE T1

Coronal GRE water image

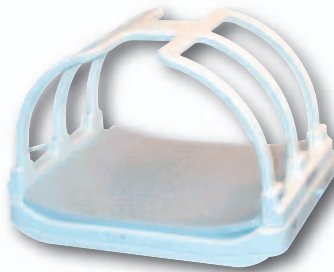
Coronal SE T1



CTL Coil



Wrist Coil

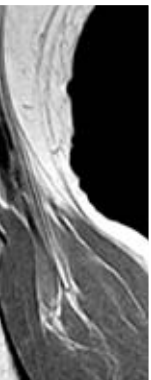


Openbody Coil



Breast Coil

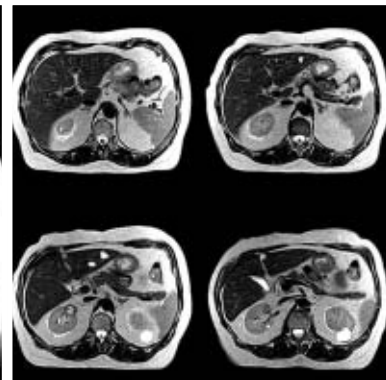
*Vascular (CE MRA)
Thoracic aorta*



Axial SE T1



Axial FSE T2

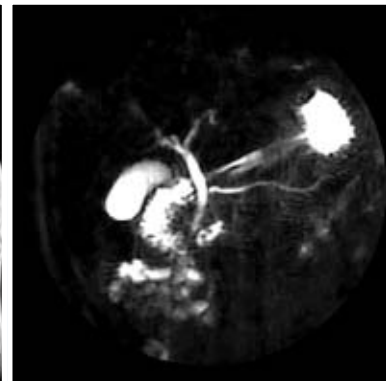


*Vascular (CE MRA)
Abdominal aorta*

Cine GRE

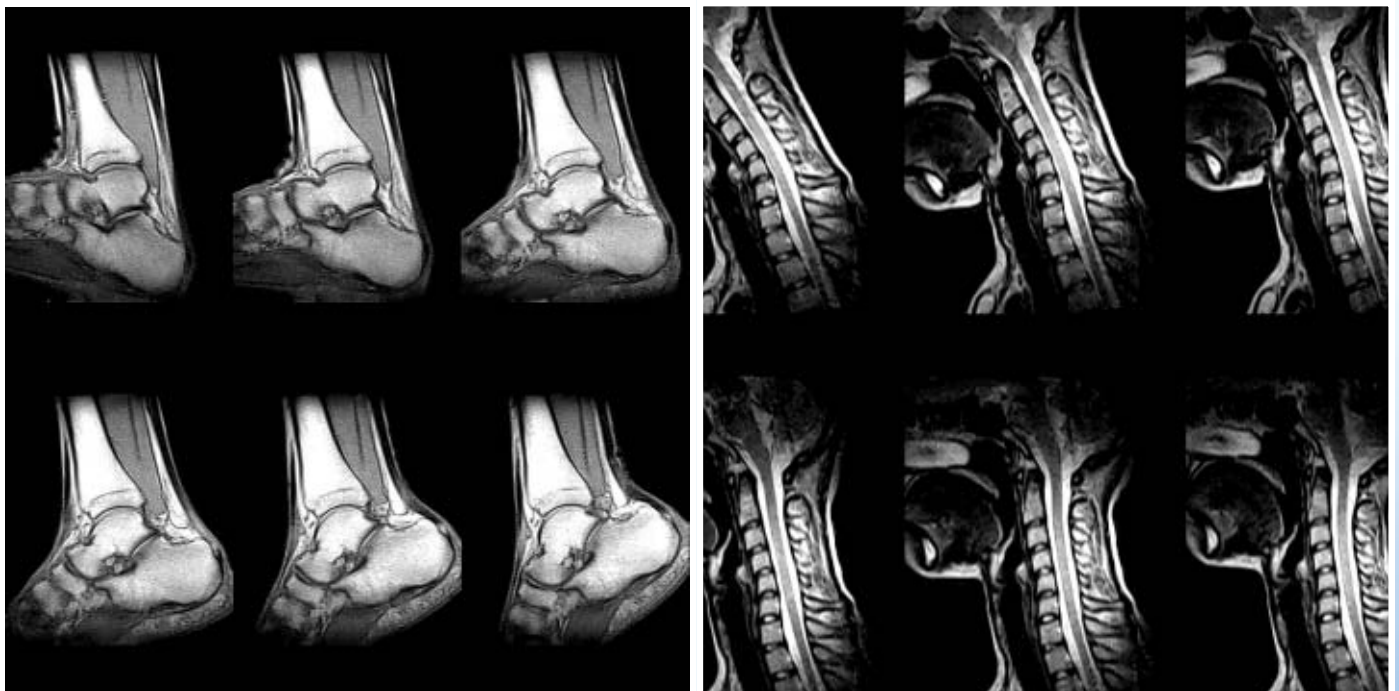


MRCP breathold

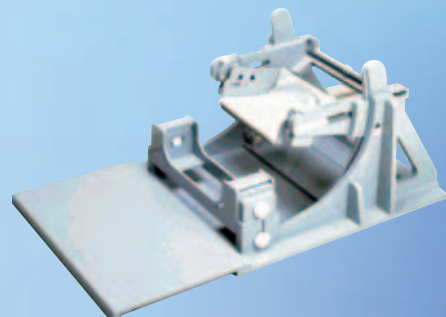


*Bodyflex
(3 sizes)*

All clinical applications range of a high field



Ankle kinematic device



Cervical kinematic device

User friendly and Flexible Operator Interface



The 64 bit dual CPU on Profile systems supports high-speed and multi-task operations. The Profile high performance console significantly reduces processing time. All information is displayed on the LCD color monitor screen so that you can promptly start scans with easy operations. Profile will allow you to obtain speedy and accurate diagnosis.

The ancillary LCD monitor is dedicated to display the ECG, peripheral and respiratory gating information.

- ***64 bit dual CPU achieves image reconstruction time of 0.045 seconds***

Our 64 bit dual CPU achieves high speed processing with image reconstruction time being reduced to 0.094 seconds. You can also display the data from a volume scan in 3D cross section image real-time (real-time reformation). Lastly you can process 3D display, data transfer and other processing simultaneously (multi-task processing).

- ***Press one key and start...***

Auto filming further facilitates your scan. Once you register examination patterns, all you have to do is press the start key.

If you register a series of scans, just press the key to complete it without any interruptions. After image reconstruction, Signa Profile will automatically perform printing.

- ***3-plane localizer***

3-plane localizer enables you to display sagittal, coronal and axial images at the same time, and to prescribe double-oblique easily.



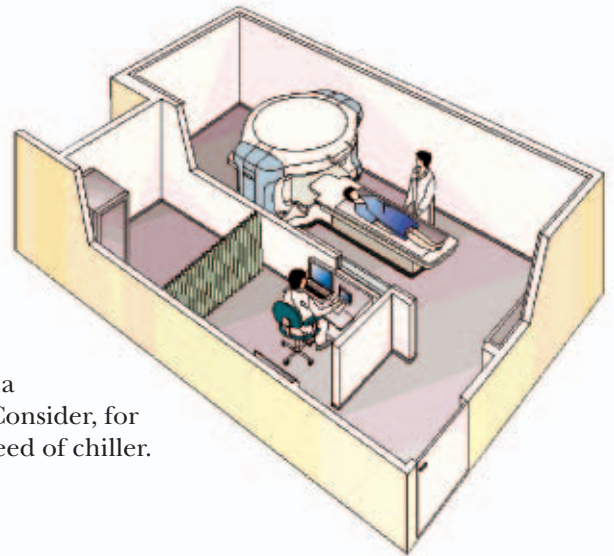
Open MR comes closer to You

Flexible siting and reliable customer support

Signa Profile is designed to make things easier for you through its flexible siting.

Unmatched cost performance

Signa Profile achieves outstanding cost performance using a permanent magnet and GE's leading edge performance. Consider, for example, only 5kVA average power consumption and no need of chiller.



Minimal environmental demands

With its small footprint, narrow fringe field, and all power technologies housed in a single cabinet, Profile can be installed easily in small spaces. You avoid a lengthy, complex siting process that drives up costs. Profile's permanent magnet minimizes operating expenses as well, with low electrical consumption and no need for cryogen refills. Profile is a system that you can use carefree.



Smallest space requirement in its class, minimizing limitation

The smallest installable space for Profile is 23m² (recommended space 33m²)¹, one of the smallest in the industry. Profile does not require a dedicated machine room,² either, and saves you time and costs.

1: Recommended installation space including the operation room. Use of Profile in an installation site with less space can cause limitations on conditions of use.

2: A simple soundproofing partition is recommended when the cabinet and operator console are closely located.

Signa Profile

Signa



Pro



file

*Open to the future with the new
Signa Profile family Smart,
Pro and Adventium*



The new GE Medical Systems exclusive Services products

Enhance your DI platform outputs with GE Medical Systems eServices

● ***Real time touch with your operations***

- Live and permanent connection with GE Medical Systems
Online application support
"Contact GE" Button, access to top priority Services
- Dedicated GE Medical Systems staffing and network resources
- Education on line
- Service alerts status

● ***Access to strategic information***

- Uptime measurements and statistics
- Daily update of equipments utilization
Number of exams, Type of exams, Exams duration...
- Upgrade Wizards
- Service history



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