

## Ge Signa Profile 3 and 4 Specifications

MODEL	Signa Profile Open
ELECTROMAGNETIC FIELD STRENGTH, T (5-GAUSS FRINGE FIELD)	0.2
YEAR FIRST INSTALLED (Storage)	1996
CLINICAL USE (POWER NEEDED)	Whole body
Angiography	2-D and 3-D TOF standard
Reconstruction time	
Single slice, sec (RECONSTRUCTION TIME)	Simultaneous scan and reconstruction
Multislice, sec (RECONSTRUCTION TIME)	Simultaneous scan and reconstruction
Volume, sec (RECONSTRUCTION TIME)	Simultaneous scan and reconstruction
Respiratory gating (DISPLAY)	Yes
CARDIAC GATING	
Ecg/peripheral (CARDIAC GATING)	Yes/yes
IMAGING MODES	
Single (EYEPIECE)	Yes
Multislice (IMAGING MODES)	Yes
Volume study (IMAGING MODES)	Yes
Additional (Alarms, high/low)	POMP, FastScan, Multi-Slab
GRADIENT SUBSYSTEM	
Strength, mt/m (GRADIENT SUBSYSTEM)	10
Rise time to 10mT/m, msec (GRADIENT SUBSYSTEM)	0.6
Cpu (NETWORK/DATABASE)	Sun SPARC
Memory size, mb (GRADIENT SUBSYSTEM)	32-bit
ARRAY PROCESSOR (EXTERNAL BEAM)	Intel i860
Memory size, mb (GRADIENT SUBSYSTEM)	128
Storage media/size (GRADIENT SUBSYSTEM)	Hard disk, MOD
Image storage capacity (GRADIENT SUBSYSTEM)	6,000hard disk, 4,000MOD
POWER NEEDED	
Line voltage, V (POWER NEEDED)	200-480, 3-phase
Kva (POWER NEEDED)	8average
A/c, btu/hr (POWER NEEDED)	<10,000
SHIMMING (CRYOGEN USE, L/hr)	Passive
Diameter, cm (VACUUM)	
Body coil (DIAMETER, cm)	Body Flex sizes med, lg, xlg, quadrature
Head coil (DIAMETER, cm)	27x 41 quadrature
SURFACE COILS	
Spine (SURFACE COILS)	Quad Body Flex
Knee (SURFACE COILS)	Quad Extremity
Neck (SURFACE COILS)	Solenoid GP
Tmj (SYSTEM CAPABILITIES)	GP Neck
Extremity (SURFACE COILS)	Quad Extremity
Head (SURFACE COILS)	Quadrature Head
Shoulder (SURFACE COILS)	GP Neck
Additional (Alarms, high/low)	Medium Body Flex, X-large Body Flex
BORE DIAMETER or W x H, cm (SURFACE COILS)	Rectangular, W above 100 cm. {value text}120x 44

BORE FEATURES (DIAMETER, cm)	Ambient lighting, ventilation, inter- com, nurse/tech call button, mirrored head coil
MAGNET WEIGHT, kg (CRYOGEN USE, L/hr)	9,060with gradient coil, enclosure
DIMENSIONS (HXWXD),CM (CRYOGEN USE, L/hr)	147x 214 x 193
DICOM 3.0 COMPATIBLE (POWER NEEDED, VAC)	Yes
IMAGING	
Pulse sequences (IMAGING)	SE, IR, 2-D/3-D for GRE, RF-spoiled GRE, TOF, FSE, FGRE, FRF-spoiled GRE, FLAIR, MT
Repetition time, msec (IMAGING)	7minimum
Echo time, msec (IMAGING)	3minimum
Inversion time, msec (IMAGING)	50-4,000
Slice thickness, mm (GANTRY)	2.7-20 (2-D), 0.5-5 (3-D), incr of 0.1
Fov, cm (IMAGING)	6-40, increments of 1
Fov offsets (IMAGING)	Offsets in any direction
Scan orientations (IMAGING)	Axial, sagittal, coronal, oblique, double oblique
Measuring matrix (IMAGING)	128-512 in steps of 32 (phase encoding); 128-512 in steps of 32 (freq encoding)
Display matrix (IMAGE DISPLAY)	512x 512
Pixel intensity (IMAGING)	256gray levels
Spatial resolution, mm (IMAGING)	0.008std; 0.02 opt
OPTIONS	Extremity coil, extra-large coils, Interactive Vascular Imaging (IVI), Advantage Windows workstation
5-GAUSS FRINGE FIELD	
Radial/axial, m (5-GAUSS FRINGE FIELD)	2.1/2.4
MAGNET	Permanent
MARKETING REGION (Interference compensation)	