

Signa Ovation ,35T Specifications

MODEL	Signa Ovation
MAGNET	Permanent
POWER NEEDED	
LINE VOLTAGE, VAC	200-480, 3-phase
Kva (POWER NEEDED)	6average, 26 peak
CLINICAL USE (POWER NEEDED)	Whole body
IMAGING	
Pulse sequences (IMAGING)	SE, IR, 2-D/3-D for GRE, RF-spoiled GRE, TOF, FSE, FGRE, FRF- spoiled GRE, FLAIR, MT, SS-FSE, MT-SE, adiabatic IR, SHARE, T1 FLAIR, fast- recovery FSE
Repetition time, msec (IMAGING)	7.7
Echo time, msec (IMAGING)	1.2
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)	1-40, increments of 1
Fov offsets (IMAGING)	Offsets in any direction
Scan orientations (IMAGING)	Axial, sagittal, coronal, oblique, double oblique, multiangle
Measuring matrix (IMAGING)	64x 64 to 512 x 512in steps of 32 (phase and frequency encoding)
Display matrix (IMAGE DISPLAY)	512x 512
Pixel intensity (IMAGING)	256gray levels
Resolution, mm (PERFORMANCE)	0.008; optional 0.02
GRADIENT SUBSYSTEM	
Strength, mt/m (GRADIENT SUBSYSTEM)	15
Rise time to 10mT/m, msec (GRADIENT SUBSYSTEM)	0.333
Cpu (NETWORK/DATABASE)	Pentium IV Xeon DP Prestonia, 1.8 GHz
Memory size, mb (GRADIENT SUBSYSTEM)	2GB
ARRAY PROCESSOR (EXTERNAL BEAM)	Pentium IV, dual processor
Memory size, mb (GRADIENT SUBSYSTEM)	256, optional 512
Storage media/size (GRADIENT SUBSYSTEM)	Hard disk, MOD
Image storage capacity (GRADIENT SUBSYSTEM)	85,000hard disk, 30,000MOD
SURFACE COILS	
Spine (SURFACE COILS)	CTL array
Knee (SURFACE COILS)	S/L array, GP loop
Neck (SURFACE COILS)	Cervical array, GP
Tmj (SYSTEM CAPABILITIES)	GP neck, 9" split GP
Extremity (SURFACE COILS)	Wrist, foot, GP loop
Head (SURFACE COILS)	Open quadrature
Breast (APPLICATORS)	Open 4-channel array
Shoulder (SURFACE COILS)	2-channel array
Additional (Alarms, high/low)	Neurovascular array, medium body flex, large body flex, integrated body coil
BORE SIZE, dia x L	
Or w x h x l, cm (BORE SIZE, dia x L)	143x 41
5-GAUSS FRINGE FIELD	

Radial/axial, m (5-GAUSS FRINGE FIELD)	2.5/2.5
ELECTROMAGNETIC FIELD STRENGTH, T (5-GAUSS FRINGE FIELD)	0.35
DICOM 3.0 COMPATIBLE (POWER NEEDED, VAC)	Yes
Cooling method (X-RAY TUBE)	Air cooled
MAGNET WEIGHT, kg (CRYOGEN USE, L/hr)	19,200with gradient enclosure
DIMENSIONS (HXWXD),CM (CRYOGEN USE, L/hr)	214x 258 x 220
Angiography	2-D and 3-D TOF, Smart Prep automatic bolus detection
BORE FEATURES (DIAMETER, cm)	Ambient lighting, ventilation, inter- com, nurse/tech call button, mirrored head coil
OPTIONS	Extremity coil, wrist coil, x-large body coil, kinematic joint motion positioners, Inter- active Vascular Imaging (IVI), Advantage Windows workstation
Reconstruction time	
Single slice, sec (RECONSTRUCTION TIME)	80images/sec
Multislice, sec (RECONSTRUCTION TIME)	80images/sec
Volume, sec (RECONSTRUCTION TIME)	80images/sec
SHIMMING (CRYOGEN USE, L/hr)	Passive and active
Diameter, cm (VACUUM)	
Body coil (DIAMETER, cm)	41 (including patient table)
Head coil (DIAMETER, cm)	31x 44 quadrature
Respiratory gating (DISPLAY)	Yes
IMAGING MODES	
Single (EYEPIECE)	Yes
Multislice (IMAGING MODES)	Yes
Volume study (IMAGING MODES)	Yes
Additional (Alarms, high/low)	Fast Scan, POMP, Multi-Slab, cine, localizer, EPI
CARDIAC GATING	
Ecg/peripheral (CARDIAC GATING)	Yes/yes
ECHO PLANAR IMAGING (CARDIAC GATING)	Yes
CONFIGURATION	Open