

## MAGNETOM Open Viva Specifications

MODEL	MAGNETOM Open Viva
MAGNET	Resistive C-shaped
POWER NEEDED	
Line voltage, V (POWER NEEDED)	380/400/420/440/480
Kva (POWER NEEDED)	35
CLINICAL USE (POWER NEEDED)	Whole body
CARDIAC GATING	
Ecg/peripheral (CARDIAC GATING)	Yes/yes
IMAGING MODES	
Single (EYEPIECE)	Yes
Multislice (IMAGING MODES)	Yes
Volume study (IMAGING MODES)	Yes
SURFACE COILS	
Spine (SURFACE COILS)	CP flexible spine
Knee (SURFACE COILS)	21cm multipurpose
Neck (SURFACE COILS)	16/21 cm multipurp
Tmj (SYSTEM CAPABILITIES)	
Extremity (SURFACE COILS)	16/21 cm multipurp
Head (SURFACE COILS)	CP head
Shoulder (SURFACE COILS)	16/21 cm multipurp
Additional (Alarms, high/low)	45cm multipurpose, 35cm multipurpose for MR-guided procedures
BORE DIAMETER or W x H, cm (SURFACE COILS)	MRT (Open Magnet)
DICOM 3.0 COMPATIBLE (POWER NEEDED, VAC)	Optional
GRADIENT SUBSYSTEM	
Strength, mt/m (GRADIENT SUBSYSTEM)	15
Rise time to 10mT/m, msec (GRADIENT SUBSYSTEM)	0.6
Cpu (NETWORK/DATABASE)	Turbo SPARC-based host
Memory size, mb (GRADIENT SUBSYSTEM)	64
ARRAY PROCESSOR (EXTERNAL BEAM)	SMI-5 (Siemens Medical Imager)
Memory size, mb (GRADIENT SUBSYSTEM)	146
Storage media/size (GRADIENT SUBSYSTEM)	1.7GB MOD drive
Image storage capacity (GRADIENT SUBSYSTEM)	~11,000 (256 x 256)
ELECTROMAGNETIC FIELD STRENGTH, T (5-GAUSS FRINGE FIELD)	0.2
OPTIONS	PACSnet Ethernet, MR- guided procedures kit, comfort kit, cardiac evaluation package, extra memory, hard disk expansion, Prominence work- station
SHIMMING (CRYOGEN USE, L/hr)	Passive, active
Diameter, cm (VACUUM)	
Body coil (DIAMETER, cm)	41pole to pole
Head coil (DIAMETER, cm)	20.3x 17

Reconstruction time	
Single slice, sec (RECONSTRUCTION TIME)	<0.65
Multislice, sec (RECONSTRUCTION TIME)	<0.65/slice
Volume, sec (RECONSTRUCTION TIME)	<0.65/slice
Cooling method (X-RAY TUBE)	Closed loop, chilled water
Chilled h2o, l/min (POWER NEEDED)	17-40, varies w/temp
MAGNET WEIGHT, kg (CRYOGEN USE, L/hr)	12100
DIMENSIONS (HXWXD),CM (CRYOGEN USE, L/hr)	195x 120 x 200
Angiography	Optional MT, TONE, 2-D & 3-D TOF; Turbo MRA, PC (WIP)
IMAGING	
Pulse sequences (IMAGING)	SE, IR, True IR, Turbo IR, GE, 2-D & 3-D FLASH, 2-D & 3-D FISP, 3-D PSIF, 3-D DESS, 2-D True FISP, TSE, Turbo FLASH, combination echo
Repetition time, msec (IMAGING)	28minimum SE, 11minimum GE
Echo time, msec (IMAGING)	15minimum SE, 4minimum GE
Inversion time, msec (IMAGING)	35minimum
Slice thickness, mm (GANTRY)	2-60 (2-D), 0.5-50 (3-D)
Fov, cm (IMAGING)	4-40
Fov offsets (IMAGING)	±20
Scan orientations (IMAGING)	Axial, sagittal, and coronal orthogonal; oblique; double oblique; MAO
Measuring matrix (IMAGING)	Up to N x 1024, N = 32-512 in increments of 1
Display matrix (IMAGE DISPLAY)	1024x 1024
Pixel intensity (IMAGING)	1-4,096
Spatial resolution, mm (IMAGING)	0.31,in plane
BORE FEATURES (DIAMETER, cm)	Open 270 deg patient access, removable table, intercom, nurse-call bulb, opt music headphones
CONFIGURATION	
OTHER ATTRIBUTES (Interference compensation)	Open Integrated MIP and MPR; standard integrated image noise filters, VCR interface, cine display, remote diagnostics package, quantitative analysis; 2 coils plug in simultaneously.
FDA CLEARANCE (Interference compensation)	Yes

CE MARK (MDD) (Interference compensation)  
MARKETING REGION (Interference compensation)

Yes  
Worldwide