Proview ,23 T Marconi Specifications

MODEL	Marconi Proview
MAGNET	Resistiveiron core
POWER NEEDED	
LINE VOLTAGE, VAC	400/480
Kva (POWER NEEDED)	35; 1 in standby mode
CLINICAL USE (POWER NEEDED)	Whole body
SURFACE COILS	
Spine (SURFACE COILS)	Quad phased array
Knee (SURFACE COILS)	Quad phased array
Neck (SURFACE COILS)	Flex, various sizes
Tmj (SYSTEM CAPABILITIES)	
Extremity (SURFACE COILS)	Quad phased array
Head (SURFACE COILS)	Quad phased array
Shoulder (SURFACE COILS)	Flex, various sizes
Additional (Alarms, high/low)	Wraparound spine and multipurpose coils, various sized spine, phased array neck
BORE SIZE, dia x L	
Or w x h x l, cm (BORE SIZE, dia x L)	Open design
ELECTROMAGNETIC FIELD STRENGTH, T (5-GAUSS FRINGE FIELD)	0.23
Cooling method (X-RAY TUBE)	Closed loop
Chilled h2o, l/min (POWER NEEDED)	18 (typical)
MAGNET WEIGHT, kg (CRYOGEN USE, L/hr)	13200
DIMENSIONS (HXWXD),CM (CRYOGEN USE, L/hr)	196x 125 x 189
DICOM 3.0 COMPATIBLE (POWER NEEDED, VAC)	Optional
5-GAUSS FRINGE FIELD	
Radial/axial, m (5-GAUSS FRINGE FIELD)	<2.4, all directions
GRADIENT SUBSYSTEM	
Strength, mt/m (GRADIENT SUBSYSTEM)	16
Rise time to 10mT/m, msec (GRADIENT SUBSYSTEM)	0.4
Cpu (NETWORK/DATABASE)	COMPAQ 64-bit Alpha, 500MHz
Memory size, mb (GRADIENT SUBSYSTEM)	64
ARRAY PROCESSOR (EXTERNAL BEAM)	Transputer array
Memory size, mb (GRADIENT SUBSYSTEM)	128
Storage media/size (GRADIENT SUBSYSTEM)	Optical disk
Image storage capacity (GRADIENT SUBSYSTEM)	59,600 (256x 256); 35,000 (256x 256) optical disk
IMAGING MODES	
Single (EYEPIECE)	Yes
Multislice (IMAGING MODES)	Yes

Volume study (IMAGING MODES)	Yes
Additional (Alarms, high/low)	Multiple slice/ MAPS, turbo multiple slice, pilot and batch scans, dynamic
IMAGING	
Pulse sequences (IMAGING)	SE, SE 3-D, IR, IR 3-D, FE, FE 3-D, STIR, FLAIR, FSE, DE, T-SHIRT, C-BASS, fat suppression
Repetition time, msec (IMAGING)	10-10,000
Echo time, msec (IMAGING)	4-500
Inversion time, msec (IMAGING)	25-4,000
Slice thickness, mm (GANTRY)	2-100 (2-D), 0.4-100 (3-D)
Fov, cm (IMAGING)	4-40
Fov offsets (IMAGING)	NA; anatomy always at isocenter
Scan orientations (IMAGING)	Transverse, sagittal, coronal, oblique, MAPS
Measuring matrix (IMAGING)	Up to 512 x 512
Display matrix (IMAGE DISPLAY)	Up to 512 x 512
Pixel intensity (IMAGING)	256gray levels
Resolution, mm (PERFORMANCE)	0.08
Respiratory gating (DISPLAY)	Optional
CARDIAC GATING	
Ecg/peripheral (CARDIAC GATING)	Optional/optional
BORE FEATURES (DIAMETER, cm)	46cm open gap, intercom, nurse call, laser positioning device
OPTIONS	Patient observation system, FSE, pulse oximeter, report generation, MPR, telemaintenance, music system, MRI injection system
Reconstruction time	
Single slice, sec (RECONSTRUCTION TIME)	0.6
Multislice, sec (RECONSTRUCTION TIME)	0.6/slice
Volume, sec (RECONSTRUCTION TIME)	0.6/slice
SHIMMING (CRYOGEN USE, L/hr)	Active, passive
Diameter, cm (VACUUM)	
Body coil (DIAMETER, cm)	46cm gap; transmit coil in poles
Head coil (DIAMETER, cm)	20x 22 phased array
Angiography	Optional; 2-D and 3-D TOF with MTC
CONFIGURATION	Open
FDA CLEARANCE (Interference compensation)	Yes
CE MARK (MDD) (Interference compensation)	Yes
MARKETING REGION (Interference compensation)	