

GE CT LightSpeed Ultra



Typical Manufacturer's Picture

The LightSpeed Ultra features an innovative solid state LightSpeed Matrix detector that enables the system to simultaneously acquire multiple adjacent slices of the anatomy. LightSpeed systems provide exceptionally clear image quality, short scan times and accurate noninvasive diagnosis

SCAN PARAMETERS

.5, .6, .7, .8, .9, 1, 2, 3, 4 second scans
80,100,120,140 kVp
10- 440 mA in 10mA increments
.63, 1.25, 2.5, 3.75, 5, 7.5, 10 mm slice thickness
1 second minimum interscan delay
25, 50 cm scan fields of view
4 x 912 No. detection channels
120 sec max scan time
160 cm max scan volume

IMAGE RECONSTRUCTION

Silicon Graphics Octane Computer
.5 sec recon time per slice
512 x 512 recon matrix

DATA STORAGE (STANDARD)



166 Highland Park Drive, Bloomfield, CT 06002 U.S.A.
Tel: (860) 218-2575 Fax: (860) 218-2565 Email: soma@somatechnology.com

18GB Hard Disk for 20,000 Images
20,000 Online Images
2.3 GB MOD Archival Storage
18GB Hard Disk for 2000, 1 sec. scan raw data files

DISPLAY

(2) 21" Flat Screen monitors
1280 x1024 Matrices, Pixels
Up to 16 slices displayed at once

TABLE/GANTRY

51-99cm vertical range
170cm longitudinal scannable range
Supports 400 lb patients accurately
70 cm gantry aperture
Up to 50cm SFOV
±30 gantry tilt

GENERATOR/TUBE

53.2 kW maximum power
6.3 MHU anode heat capacity
840 KHU/min max anode heat dissipation rate

SITING REQUIREMENTS

Minimum Suite Size: 15.5 feet wide x 19.5 feet deep x 9 feet high
Recommended Suite Size: 19.5 feet wide x 24.5 feet deep x 9 feet high

SCAN PROTOCOLS

.300 Available user selected protocols to build

kV, mA and Time Accuracy



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Kilovolts

kV Selections: 80, 100, 120 and 140 kV

Basic kVp Accuracy: +3% +/- (3% +2kV)

Excludes first 10 msec of exposure

kVp during first 10 ms: Basic accuracy (see above) +/- 5kV

MILLIAMPERES

mA Selections

10 to 440 mA, by 10 mA increments

Patient scanning subject to scan limitations or 53.2 max

mA Accuracy

Patient scanning selections of 10-440 mA

Calibration scan selections of 10-30 mA +/- 4mA

EXPOSURE TIME

Normal Axial Scan Selections: .5, .6, .7, .8, .9, 1, 2, 3 or 4 sec

Cine: .5, .6, .7, .8, .9, 1, 2, 3 or 4 sec

Scout: Scan range 20-1600mm at 100mm/sec

Exposure time: 0.20-16.0 sec

IMAGE QUALITY

Standard Spatial Resolution: 0.54 mm or 9.3 lp/cm @ 0%

High Spatial Resolution: 0.33 mm or 15 lp/cm @ 0%

Low Contrast Detect ability: 5.0 mm @ 0.3% at 100mAs (18mGy)



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