GE LightSpeed RT 16 Features

- Excellent positioning freedom
- Comprehensive range of treatment planning capabilities
- Enhanced performance
- Wide 80 cm bore
- High resolution images
- Greater detail for precise contouring
- Exceptional table stability

GE LightSpeed RT 16 Technology

- Thorough patient anatomy
- No trade-off in challenging areas
- Compatible with most mobile lasers
- Compatible with treatment accessories
- Best solution to tumor motion
- Real-time view of a moving target
- Advantage CT/PET Fusion
- Advantage CT/MR Fusion
- Auto-Segmentation
- AW Remote Access

GE LightSpeed RT 16 Tech Specs (Technical Specifications)

Basic GE LightSpeed RT 16

- Type: Multislice
- # of slices: 16

Performance

- 0% mtf: 15.4 lp/cm
- 50% mtf: 8.5 lp/cm
Slice sensitivity profile

- Low-contrast resolution: 5 mm at 0.3% at 1.33 rads, 3 mm at 0.3% at 3.72 rads
- Noise: 0.32% ±0.03 at 2.85 rads

System Integration

- Recommended post-processing workstation: AW
- Remote access to clinical applications: Optional
- Dicom 3-d image export: Yes
- Recommended Room Size: 28 m² minimum, optional 45 m²

LightSpeed RT 16 Gantry

- Gantry angle: ±30 degrees
- Gantry size (height x width x depth): 188.2 x 222.5 x 100.6 cm
- Gantry weight: 1269 kg
- Gantry opening: 80 cm
- Scan localizer: Laser

Radiation Dose

- Dose modulation technique: Smart Addition, Auto mA
- Pediatric specific dose control: Color coding for kids

Power Needed

- 380-480 V nominal
- 3-phase delta or wye

X-Ray Tube

- Heat storage: 6.3 MHU
- Heat dissipation rate: 840 kHU/min
- Tube cooling: Oil/air
- Tube focal spots: 0.7 x 0.6, 0.9 x 0.7 mm
- Expected tube life, scan sec (& calendar): See tube warranty
- Maximum ma: 440
- Maximum scan time at maximum ma, sec: 5

**Image Reconstruction**

- Cpu: Open architecture/ LINUX
- Scan fovs: 25, 50 cm
- Reconstruction matrices: 512 x 512
- Per slice: Up to 16 frames/sec
- No. of online images: 250,000 (512 x 512)
- Archive: 2.3 GB MOD, DICOM 3.0

**Generator**

- kW output: 53.2
- Kvp range: 80, 100, 120, 140
- Ma range: 10

**Patient Table (Range of movement)**

- Vertical: 51.6-99 cm
- Longitudinal: 170 cm, optional 200 cm
- Scanning range: 170 cm, optional 200 cm
- Max load capacity (accuracy, mm), without restrictions: 227 kg (±2 mm)

**Clinical Applications and Functionality**

- Applications/ Software: Advantage 4-D, Advantage fusion applications, Advantage Sim 6.0, AutoScan, AutoArchive, AutoFilm, AutoVoice, AutoTransfer, SmartPrep, ProtocolPro, View/Edit Wizard, DynaPlan Plus, ImageWorks, ProView, PNR, ConnectPro, SmartScore, advanced vessel analysis,
- Respiratory gating: Optional
- Other: Advantage Sim, Advantage fusion, Advantage 4-D
- DICOM: As defined in DICOM Conformance Statement
- Modality worklist SCU: Yes
- Query/Retrieve SCU and SCP: Yes
- Storage commitment SCU: Yes
- Modality performed procedure step SCU: Yes
- IHE profiles supported: Yes
LightSpeed RT 16 Detector (Scattered Light)

- Total detector width, z-axis: 20 mm
- Reconstructed slice width options: 1.25, 2.5, 3.75, 5, 10 mm
- Optional min slice width: 16 x 0.625 mm
- Standard Rotation times, sec, 360 degrees: 1, 2, 3, 4

Other

- FDA Clearance: Yes
- CE Mark (MDD): Yes