

GE Medical Systems

LightSpeed Pro¹⁶

Imaging freedom



imagination at work



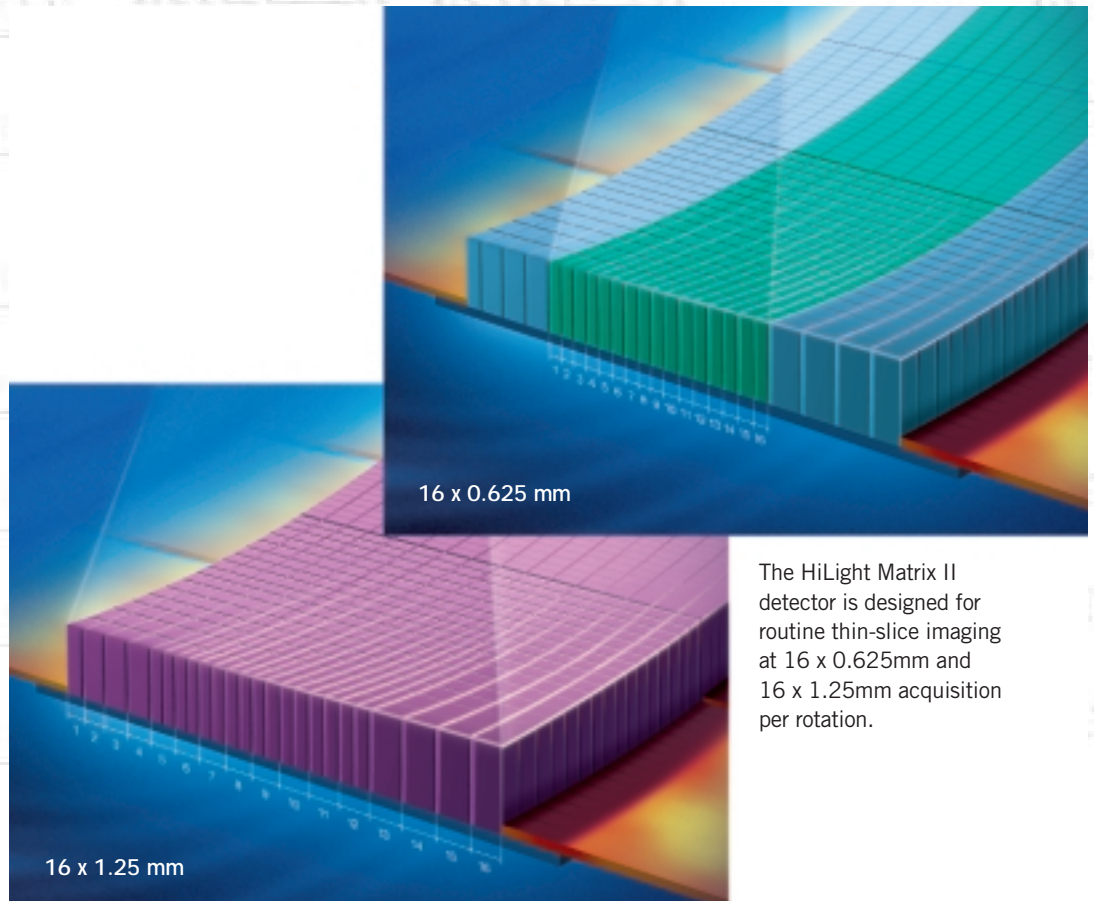
Fusing the science of technology with the art of patient care.

At GE, we know that advanced technology only matters if it helps your patients. That's why we developed the LightSpeed Pro¹⁶ – a CT system that gives you more power while reducing dose. Now, you can get superior image resolution, faster gantry rotation speeds and innovative volumetric dose reduction techniques – all designed to enhance your diagnostic capabilities.

Detecting the difference

GE's exclusive HiLight Matrix II detector allows LightSpeed Pro¹⁶ to deliver routine thin-slice imaging at 16 x 0.625mm and 16 x 1.25mm acquisition per rotation – in all scan modes and all scan speeds, including routine cardiac.

microVoxel™ imaging makes it all possible. LightSpeed Pro¹⁶ collects cubic data sets of the smallest practical volume – delivering superior image quality in 3D and multi-planar reformatting (MPR) – for true isotropic resolution.



The HiLight Matrix II detector is designed for routine thin-slice imaging at 16 x 0.625mm and 16 x 1.25mm acquisition per rotation.

The power to perform

With its powerful new tube and generator, LightSpeed Pro¹⁶ provides the foundation for faster gantry rotation speeds and improved image quality.

The new tube provides more power on the small focal spot – enhanced resolution throughout the body – and an improved tube-cooling rate that allows for longer thin-slice studies. Also, GE's patented design reduces off-focal radiation, thereby reducing dose to your patients.

Responsible dose management

Continuing GE's history of responsible dose management, LightSpeed Pro¹⁶ takes dose management to a whole new level. New and innovative dose reduction features include three-dimensional automatic dose modulation, ECG modulation and a tube that offers reduced off-focal radiation. Plus, you get the full array of OptiDose™ features, such as SmartTrack and GE's exclusive Color Coding for Kids protocols.

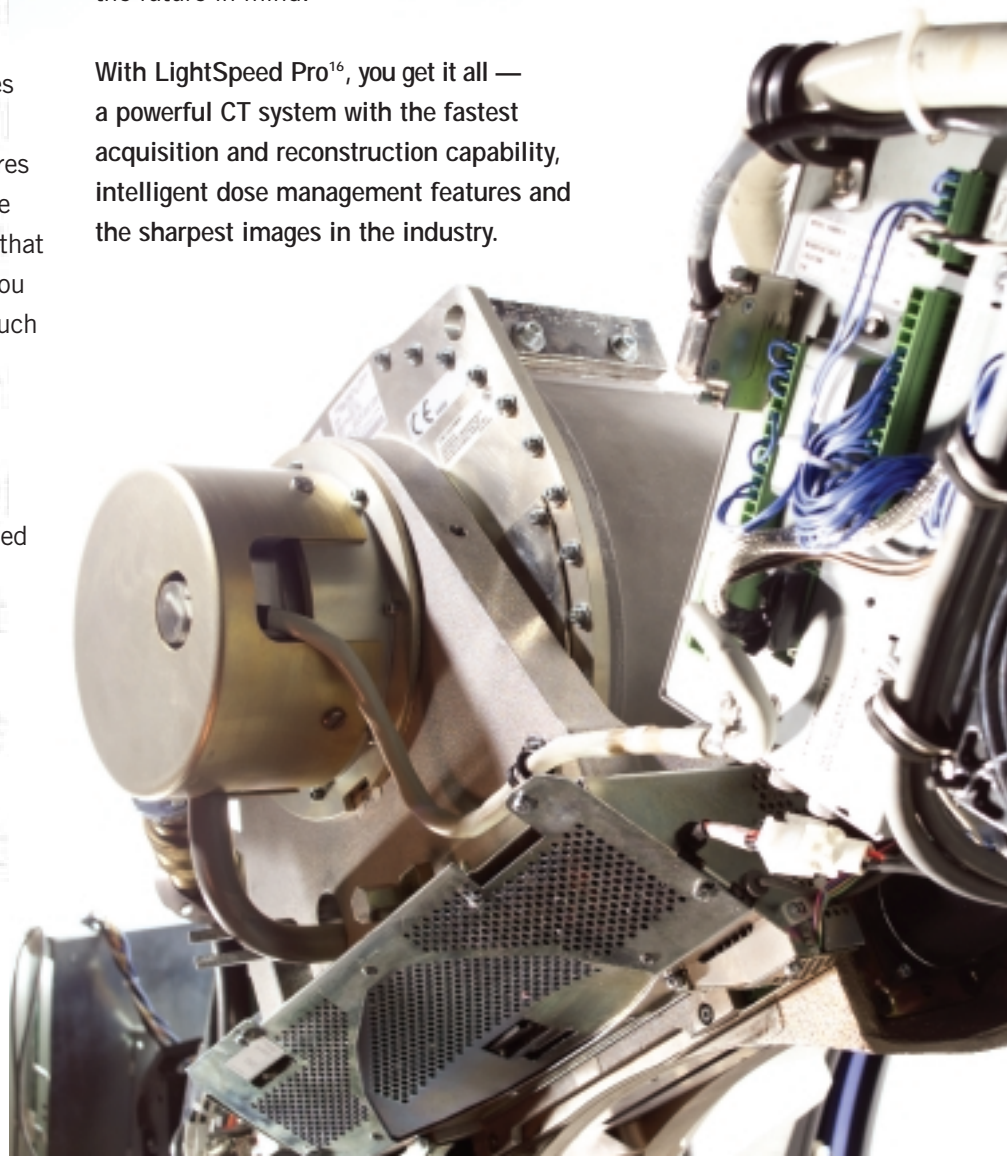
Faster routine scanning

The LightSpeed Pro¹⁶ CT system is designed to deliver 0.4-second rotation speed for improved cardiovascular, neuro, pediatric and lung imaging.

Xtream™ productivity

LightSpeed Pro¹⁶ with Xtream™ technology provides superior workflow, enhanced productivity and greater throughput. With six frames per second reconstruction and up to 10 frames per second transfer rates, Xtream easily handles the large volume of information generated by routine sub-millimeter scanning – without forcing you to make the trade-off between slice thickness and productivity. Plus, you can run GE's advanced applications on the console – for your convenience if you need it. Xtream is a field-upgradeable, inherently scalable platform designed with the future in mind.

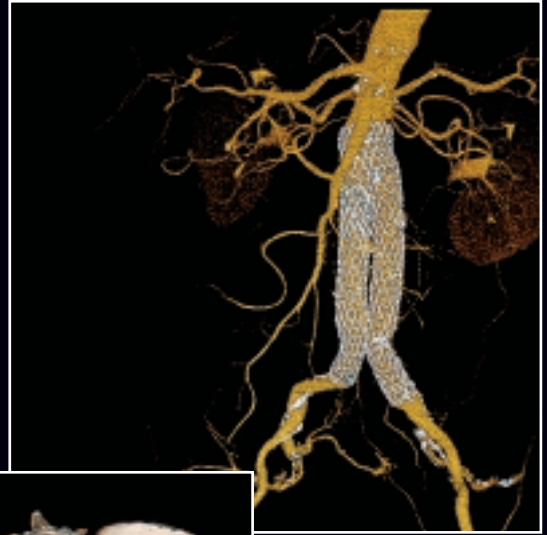
With LightSpeed Pro¹⁶, you get it all — a powerful CT system with the fastest acquisition and reconstruction capability, intelligent dose management features and the sharpest images in the industry.



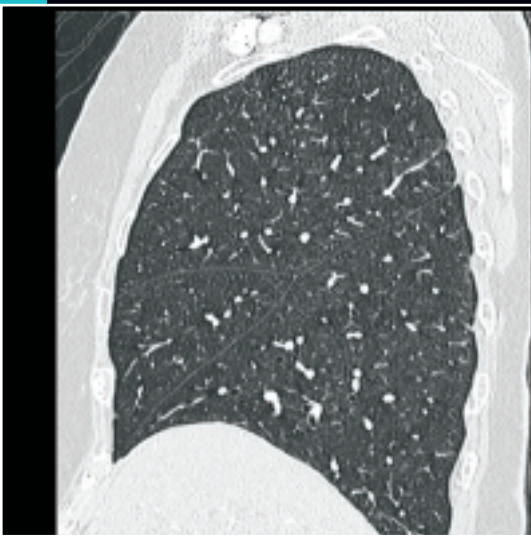
1



4



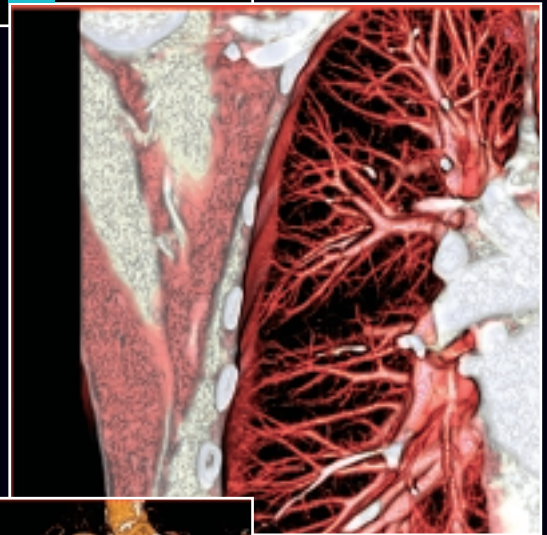
2



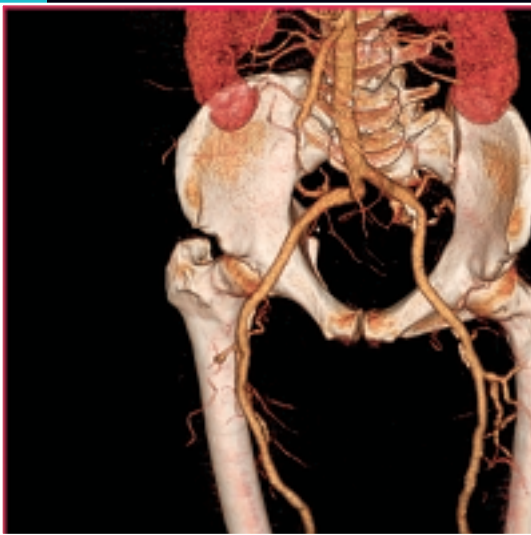
5



6

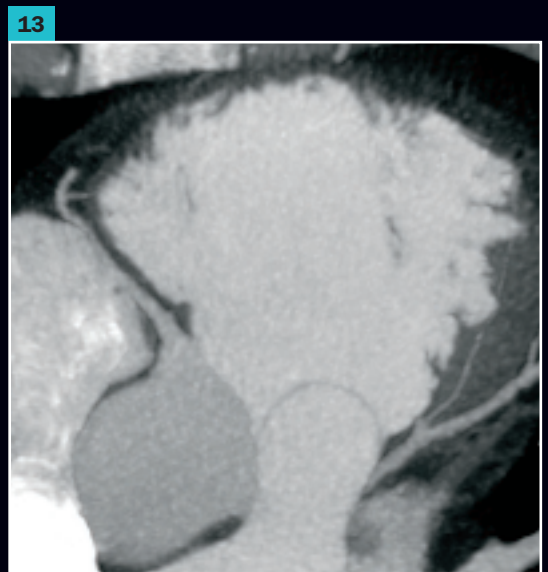
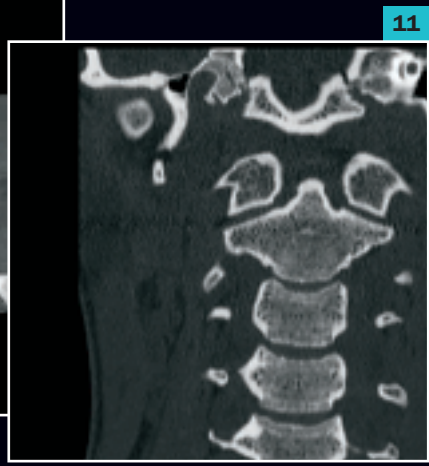
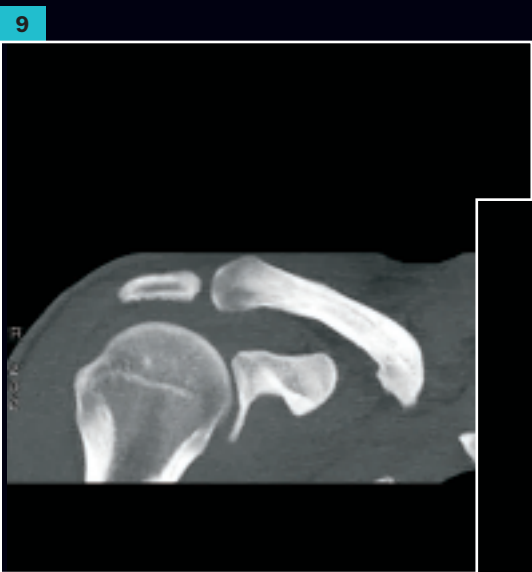
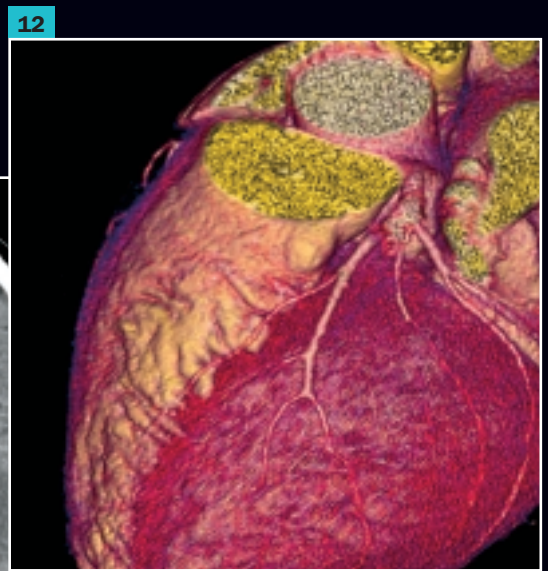


3



7

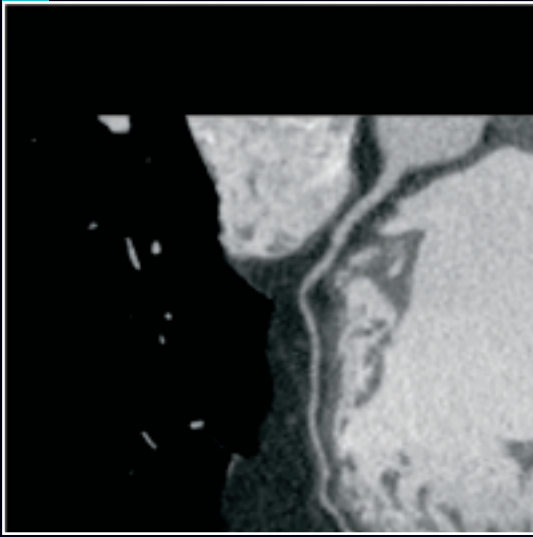




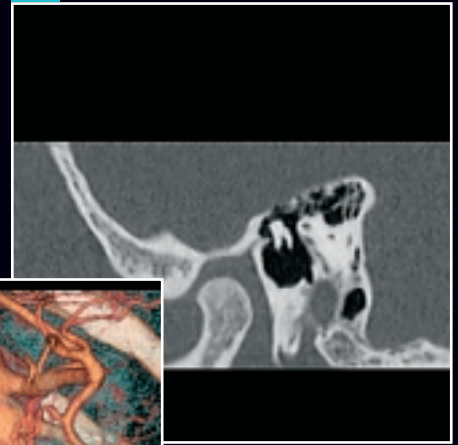
LightSpeed



14



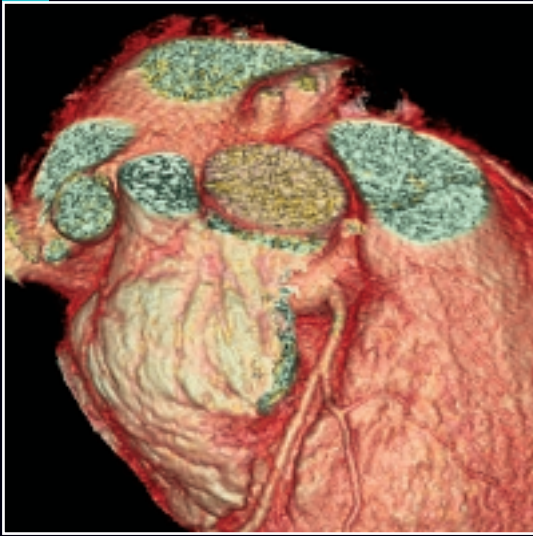
16



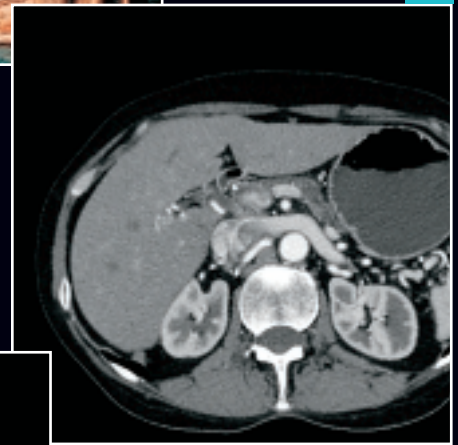
17



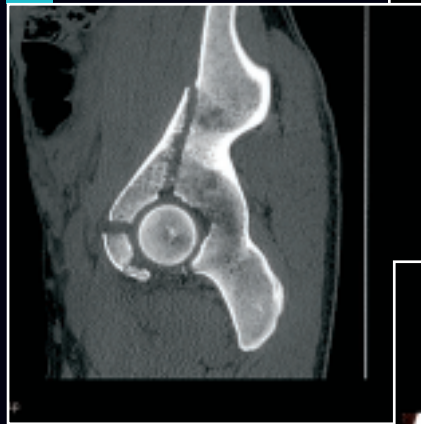
15



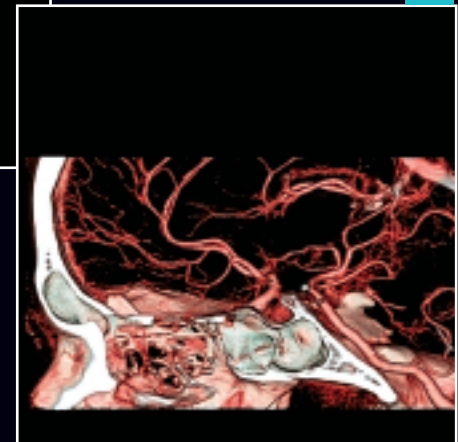
18



19



20



Pro¹⁶

21



22



23



- 1 Renal
- 2 Hi-res Chest
- 3 Run-off
- 4 Aorta
- 5 Pelvis
- 6 Chest
- 7 Aorta
- 8 Heart
- 9 Shoulder
- 10 Routine Brain
- 11 Cervical Spine
- 12 Heart
- 13 Heart – LAD with septal branches
- 14 Acute Marginal Branch of RCA
- 15 Heart
- 16 IAC
- 17 Lumbar Arteries
- 18 Routine Abdomen
- 19 Hip
- 20 Cerebral Angio
- 21 Renal
- 22 Aorta
- 23 Lumbar Spine

All images acquired at 16 x 0.625 mm

GE has the most comprehensive suite of advanced CT applications for radiology, cardiology, oncology and specialized studies:

- Advanced Lung Analysis
- Advanced Vessel Analysis
- CardIQ Analysis
- SnapShot Imaging
- CardIQ Function
- Card EP
- SmartScore
- CT Colonography
- CT Perfusion Neuro, Body or Multi-organ
- Direct 3D
- Volume Viewer (3D, Volume Rendering, Navigator)
- SmartPrep
- SmartStep
- Advantage Fusion: CT/PET, CT/MR or CT/CT
- Advantage Sim
- Advantage 4D (Respiratory Gating)
- BMD – Bone Mineral Densitometry
- DentaScan

For more than 100 years, healthcare providers worldwide have relied on GE Medical Systems for medical technology, services and productivity solutions.

So no matter what challenges your healthcare system faces – you can always count on GE to help you deliver the highest quality healthcare.

For details, please contact your GE representative today.



GE Medical Systems

General Electric Company reserves the right to make changes in specifications and features shown herein, or discontinue the product described at any time without notice or obligation. Contact your GE Representative for the most current information.

Internet – gemedical.com
GE Medical Systems
P.O. Box 414, Milwaukee, Wisconsin 53201 U.S.A.

GE Medical Systems – Europe: Fax 33-1-30-70-94-35
Paris, France

GE Medical Systems – Asia:
Tokyo, Japan – Fax: +81-425-85-5490
Hong Kong – Fax: +852-2559-3588