

Bringing the power of imaging to your patients

CereTom® Elite

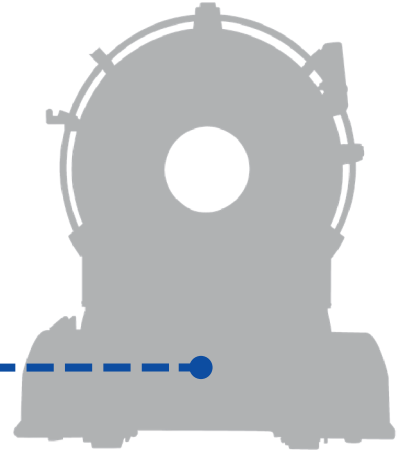
Mobile CT scanner



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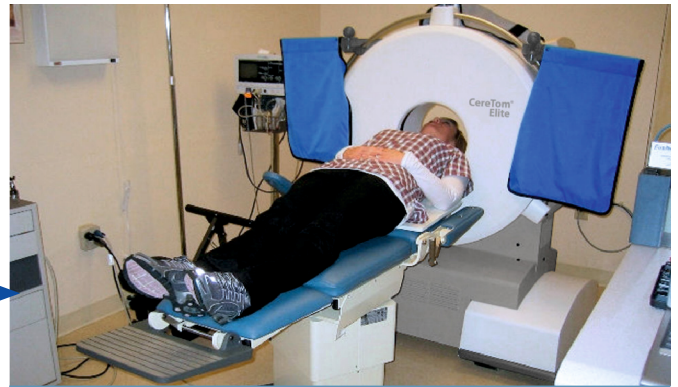
Point-of-care CT imaging

Your *multi-departmental* imaging solution



Critical care

- Neuro
- Pediatric
- Neonate
- Cardiac
- Burn



Clinic

- Neuro
- ENT
- Radiology



Operating room

- Neuro
- Maxillofacial
- ENT
- Pediatric
- Plastic Surgery



Emergency department

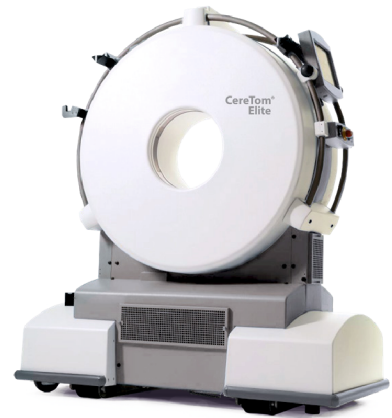
- Shock trauma
- Stroke

Core system

The CereTom® Elite mobile CT scanner

The CereTom® Elite is an 8-slice CT scanner that delivers the highest quality non-contrast, angiography and contrast perfusion scans in any patient location.

Its combination of rapid scan time, flexible settings and immediate image viewing, makes it an indispensable tool to any clinician needing real time data on critically ill patients.



CereTom® Elite imaging station

The CereTom® Elite Imaging Station has advanced visualization software allowing for 2D, 3D and MPR viewing.

The workstation produces DICOM 3.1 compliant images and with the modality worklist module, allows for seamless integration with PACS.

With its wireless communication capability, the CereTom® Elite stands ready to interface into the modern hospital information technology age.



CereTom® Elite scan board and bed adapter

Every CereTom® Elite comes complete with a radiolucent scan board and bed adapter. This combination allows virtually every hospital bed to rapidly transform into a safe and stable scanning platform. Your patient never leaves the safety of their room in the unit.

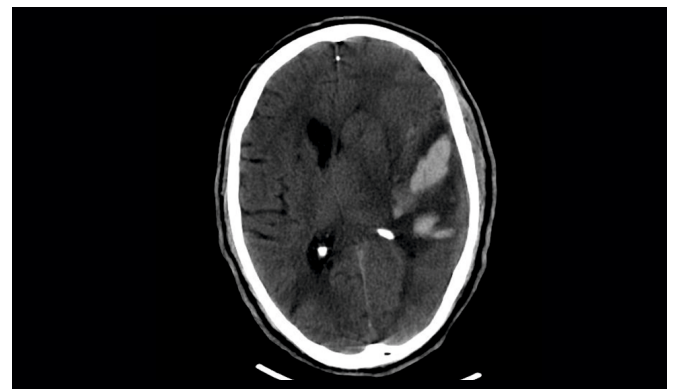


Clinical capabilities

Critical care

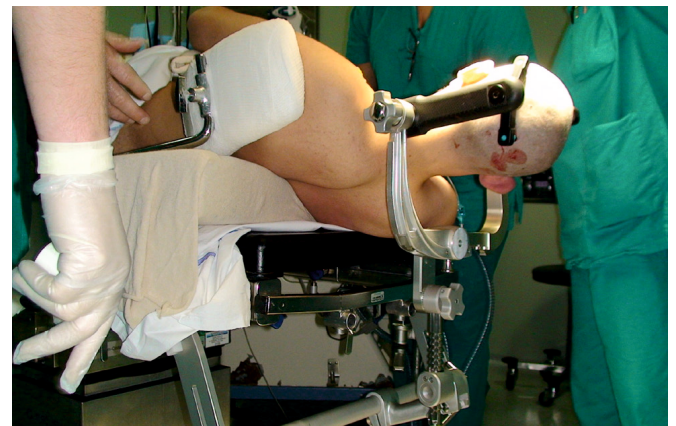
“The ability to perform mobile head CT scans of high quality in our ICU has dramatically improved both efficiency and safety of the care we provide our patients. Critically ill patients who often are on ventilators and intravenous infusions to maintain stability no longer have to leave the safety of the ICU to undergo timely diagnostic brain imaging. The number of personnel involved in obtaining this study is dramatically decreased as well. The critical care nurse no longer has to leave the ICU setting, eliminating the need for cross-coverage by her colleagues of her other responsibilities. The respiratory therapist no longer needs to be tied up with transporting the patient to and from the radiology suite and the patient is not subjected to the dangers of transport which include such critical events as unplanned extubation or hypoxia.”

- Michael S. Rosenblatt, MD, MPG, MBA, FACS



Operating room

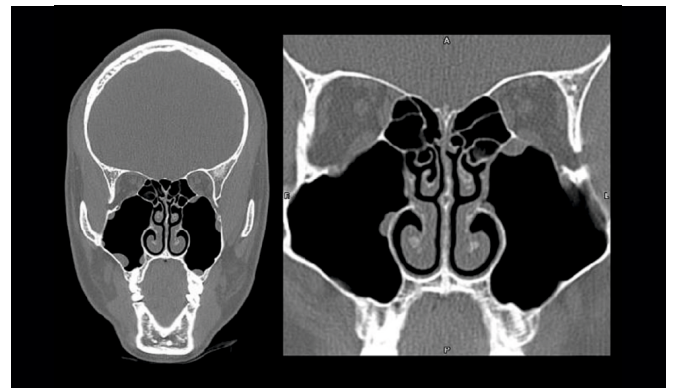
The CereTom® Elite combined with the Radiolucent Skull Clamp provides reliable head fixation and fast, high quality intraoperative imaging capabilities for a variety of neurosurgical procedures. The CereTom® Elite images are compatible with all surgical navigation systems. Intraoperative images can be easily uploaded by PACS connection or CD/USB drive. The CereTom® Elite OR package provides you with affordable, real-time intraoperative scanning, enhancing surgical navigation and improving operating room workflow as well as surgical outcomes.



Clinic

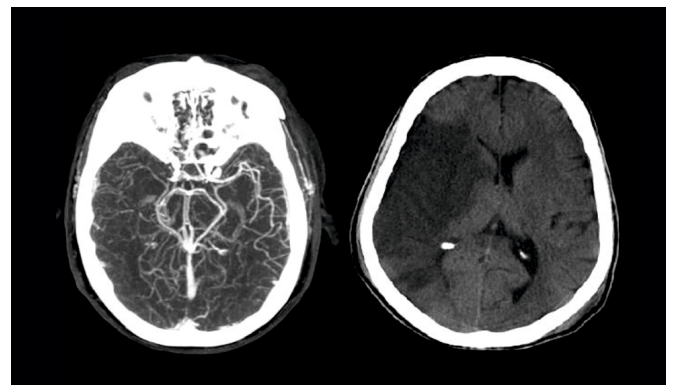
“Prior to the CereTom OTOScan, many patients would require one appointment for an initial consult, another for a CT and a third for a final diagnosis and discussion of treatment options. Since acquiring the scanner, patients can have a consult, CT imaging, receive their diagnosis and discuss treatment options all in one visit. The CereTom OTOScan improves patient convenience, efficiency of the practice, and availability of office appointments for new patients.”

- Peter J. Catalano, MD, FACS



Emergency department

Rapid triage and management of patients with acute neurological symptoms are key elements to emergency room care. The CereTom® Elite Mobile CT scanner is a complete scanning tool for neurological emergencies including stroke, hemorrhage and traumatic brain injuries.



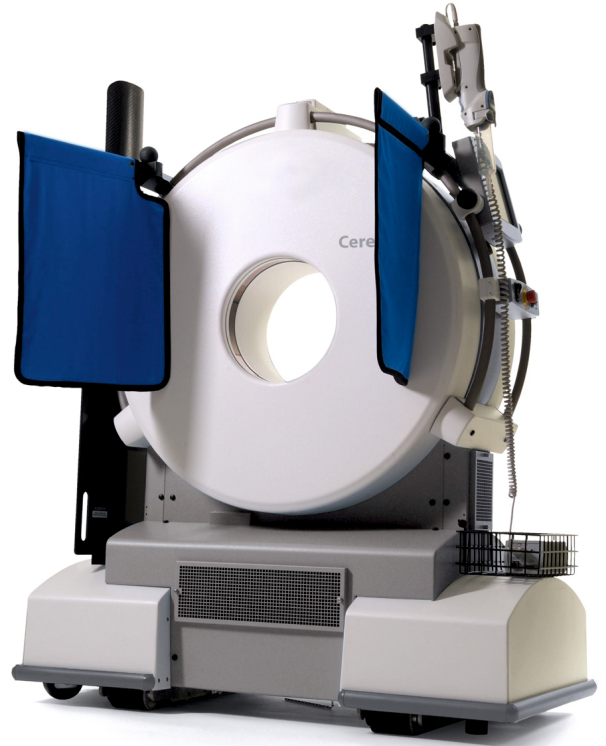
Safety

Safe for patient

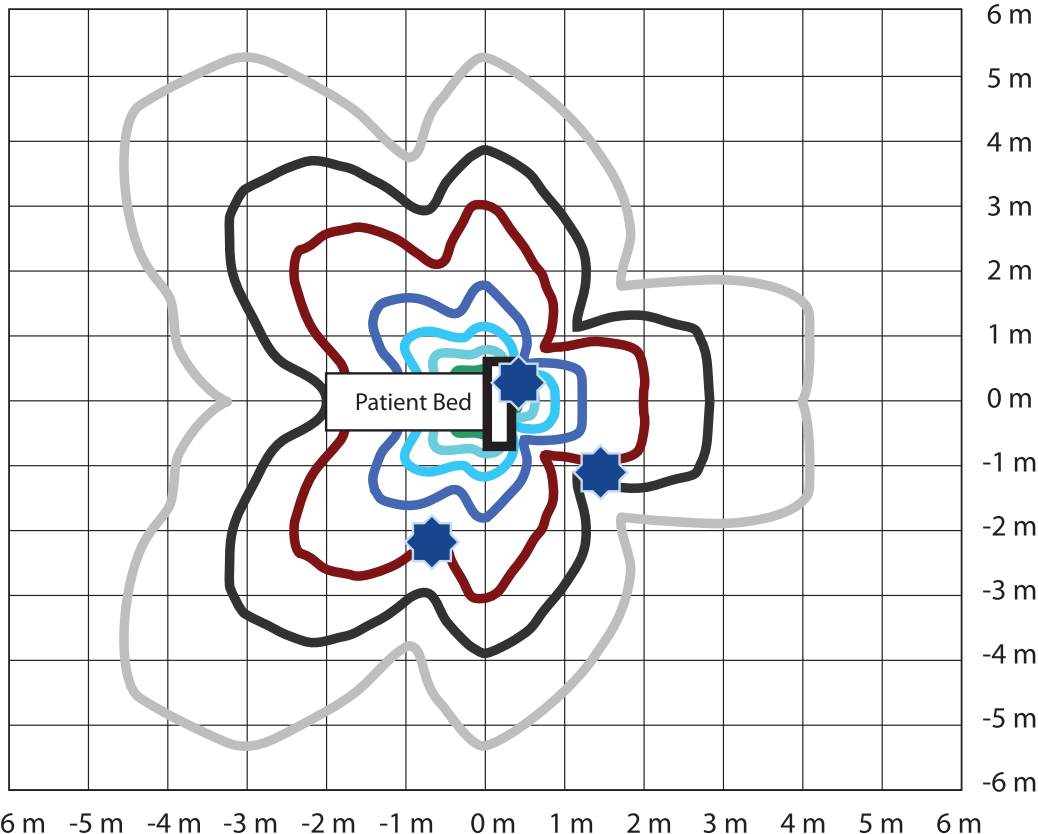
The CereTom® Elite meets the American College of Radiology's recommended guidelines for Computed Tomography Dose Index (CTDI). In addition, the dose can be adjusted As Low As Reasonably Achievable (ALARA) to meet your clinical diagnostic needs.

Safe for staff

How safe is the CereTom® Elite? According to the ALARA standard 500mRem/year per operator, and using a typical brain scan protocol at a distance of 2 meters (6 feet) from the CereTom® Elite's isocenter, your operator can perform over 26 scans per day, for 250 days per year without any additional lead protection. The CereTom® Elite covers are internally coated with 0.5mm laminated lead providing maximum scatter reduction. In addition, three externally mounted 0.5mm lead curtains (two front, one back) provide added shielding to the gantry. As a result, no additional lead shielding is required.



CereTom scatter plot for a typical head scan



6 m
5 m
4 m
3 m
2 m
1 m
0 m
-1 m
-2 m
-3 m
-4 m
-5 m
-6 m

667
1,667
3,333
6,667
16,667
33,333
66,667

2.7
6.7
13.3
26.7
66.7
133.3
266.7

Scans Per Year

Scans Per Day

120 kVp 7.0 mA
Front Curtains/Back Curtains Closed
Bed/Patient/CTDI Phantom



According to the ALARA standard, an operator standing at this mark can perform over 26 scans per day, for 250 days per year without any additional lead protection.

15 rotations x 2 seconds per rotation x 7 mA = 210 mAs

About NeuroLogica

NeuroLogica, a subsidiary of Samsung Electronics Co., Ltd., brings the power of innovative imaging to your patients.

With a strong foundation of expertise in CT design, development and manufacturing, NeuroLogica transforms fixed CT technologies into mobile platforms.

For more information

For more information about CereTom® Elite, visit www.NeuroLogica.com

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know more



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