

# Bringing the power of imaging to your patient

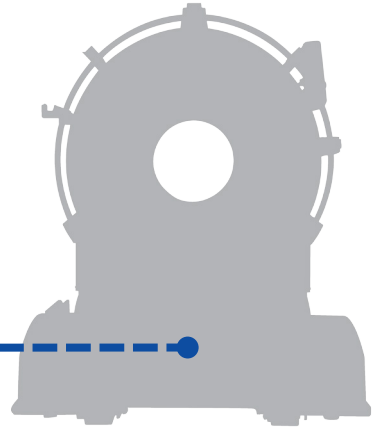
Portable CT scanner

**CereTom®**



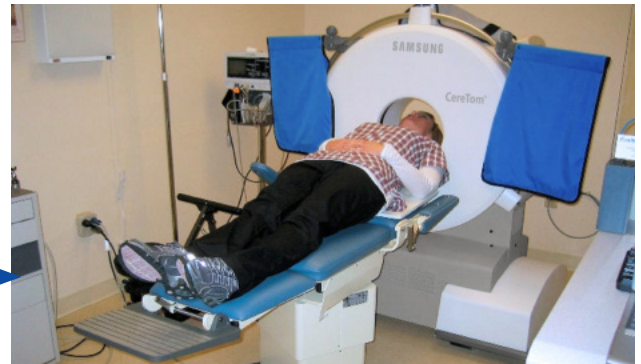
# Point-of-care CT imaging

Your *multi-departmental* imaging solution



Critical care

- Neuro
- Cardiac
- Pediatric
- Burn
- Neonate



Clinic

- Neuro
- ENT
- Radiology



Operating room

- Neuro
- Pediatric
- Maxillofacial
- Plastic Surgery
- ENT



Emergency department

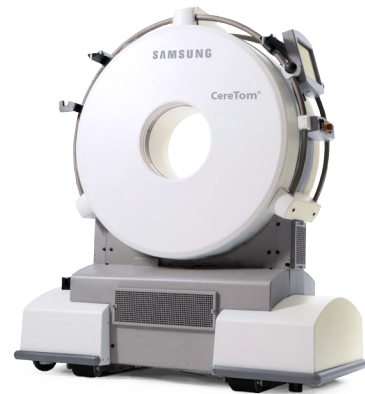
- Shock trauma
- Stroke

# Core system

## The CereTom portable CT scanner

The CereTom 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 imaging station

The CereTom 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 stands ready to interface into the modern hospital information technology age.



## CereTom scan board and bed adapter

Every CereTom 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.



## Optional CereTom Scanner Drive System (SDS) and workstation cart

The Scanner Drive System (SDS) option enables a single user to easily transport the CereTom wherever it needs to go. Designed with an intuitive variable-speed joystick interface and a solid state electric drive, the user can navigate in and out of elevators, over doorway thresholds or on any type of floor, including carpet, with ease. In addition to providing transport, the SDS also serves as a workstation cart for the CereTom imaging laptop. Once the scanner arrives at its destination, the externally mounted drive system can be easily detached and used as a free standing laptop workstation.



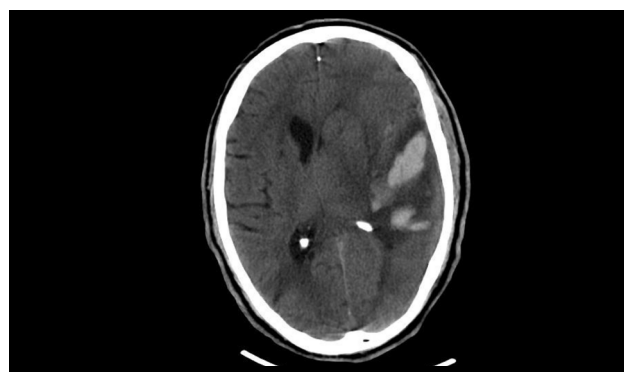


# Clinical capabilities

## Critical care

“The ability to perform portable 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

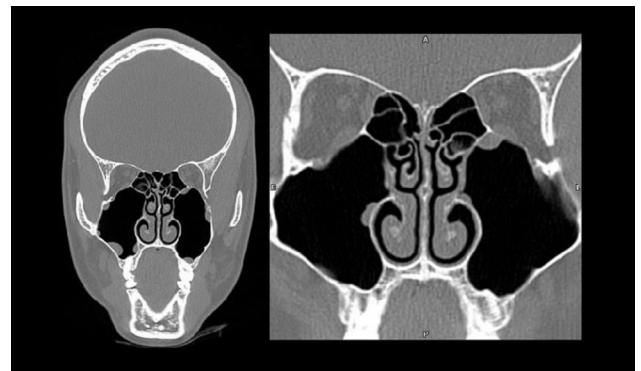
The CereTom combined with the DORO® CereTom Radiolucent Skull Clamp provides reliable head fixation and fast, high quality intraoperative imaging capabilities for a variety of neurosurgical procedures. The CereTom images are compatible with all surgical navigation systems. Intraoperative images can be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



## Clinic

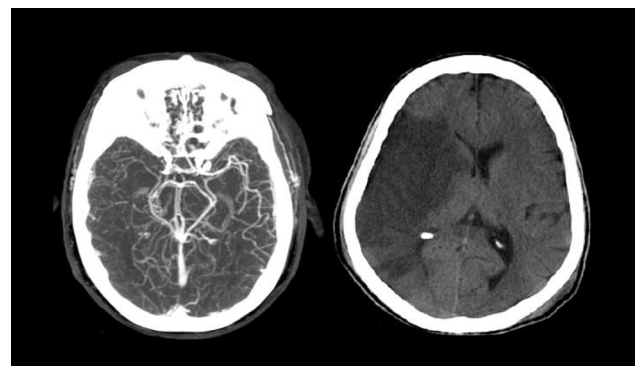
“Prior to the CereTom OTOscan, many patients would require one appointment for an initial consult, another for a CT and a third for a final diagnosis and discussion of treatment options. Since acquiring the scanner, patients can have a consult, CT imaging, receive their diagnosis and discuss treatment 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 Portable CT scanner is a complete scanning tool for neurological emergencies including stroke, hemorrhage and traumatic brain injuries.



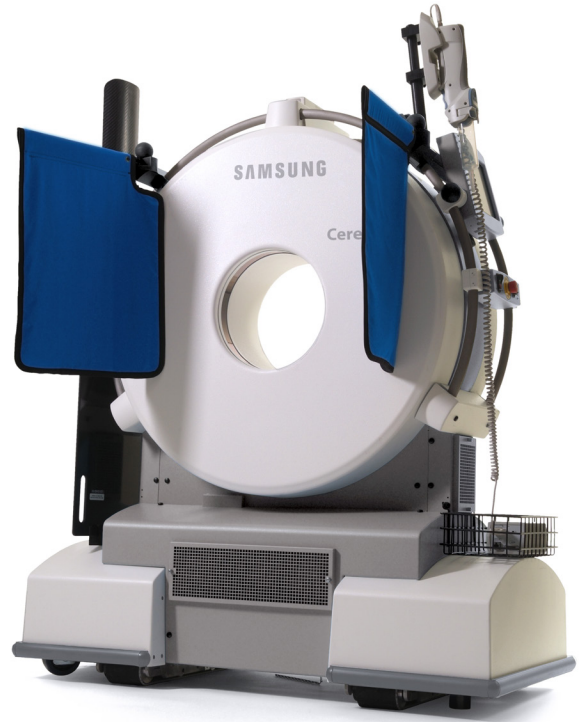
# Safety

## Safe for patient

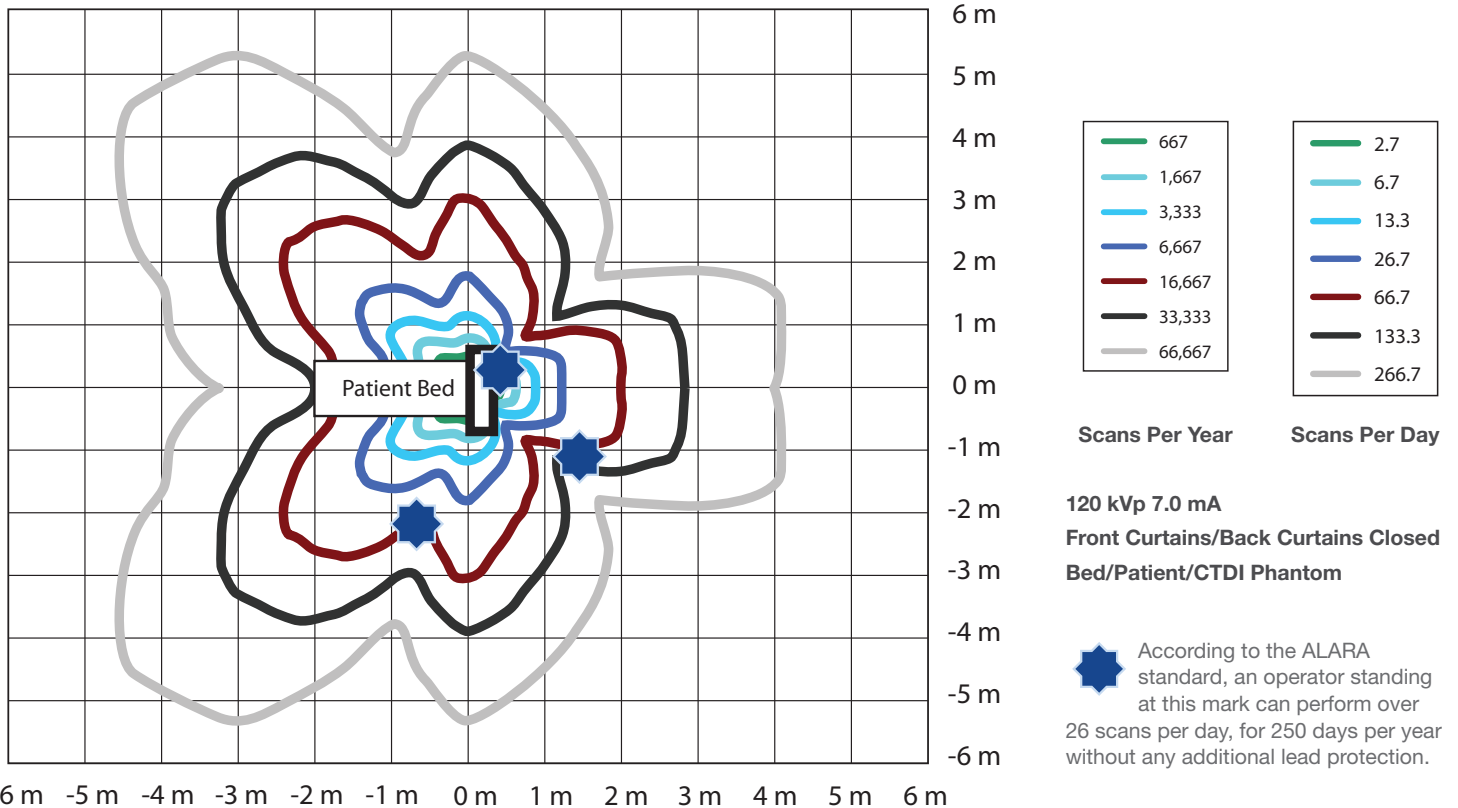
The CereTom meets the American College of Radiology's recommended guidelines for Computed Tomography Dose Index (CTDI). In addition, the dose can be adjusted As Low As Reasonably Achievable (ALARA) to meet your clinical diagnostic needs.

## Safe for staff

How safe is the CereTom? 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's isocenter, your operator can perform over 26 scans per day, for 250 days per year without any additional lead protection. The CereTom 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



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

# Overview & specifications

## CereTom core system

<b>8-slice true CT scanner</b>	<ul style="list-style-type: none"> <li>Complete self contained lead shielding</li> <li>Onboard 10" LCD touch screen</li> <li>DICOM 3.1 images compliant with CereTom modality worklist module</li> </ul>	<ul style="list-style-type: none"> <li>Integrates with all PACS</li> <li>1.25, 2.5, 5, 10 mm slice thickness</li> </ul>
<b>Laptop imaging computer with 17" high-resolution monitor</b>	<ul style="list-style-type: none"> <li>Hardware:               <ul style="list-style-type: none"> <li>Processor: Intel® Core™ 2 Duo Processor 2.2 GHz</li> <li>Memory: 4 GB</li> <li>Hard drive: 250 GB</li> <li>OS: Windows 7</li> <li>Monitor resolution: 1920 x 1200</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Advanced visualization software:               <ul style="list-style-type: none"> <li>2D</li> <li>3D</li> <li>MPR viewing</li> </ul> </li> </ul>
<b>Radiolucent universal scan board</b>	<ul style="list-style-type: none"> <li>Radiolucent carbon fiber material</li> <li>Compatible with all bed types               <ul style="list-style-type: none"> <li>Stryker</li> <li>Hill-Rom</li> <li>KCI</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Attaches to the head of the bed</li> <li>Patient slides up</li> <li>Board attaches to scanner for easy transport</li> <li>Allows for patient to be scanned in their own bed</li> </ul>
<b>Bed adapter</b>	<ul style="list-style-type: none"> <li>Designed to fit any bed</li> <li>Allows for optimized position of scan board for patient bedside scanning</li> </ul>	<ul style="list-style-type: none"> <li>Adapter allows for any bed to convert into the CereTom scanning platform</li> </ul>
<b>4 day onsite training</b>	<ul style="list-style-type: none"> <li>Conducted by a NeuroLogica Clinical Applications Specialist (up to 16 CEU credits)</li> </ul>	
<b>1 year all inclusive warranty</b>	<ul style="list-style-type: none"> <li>Covers all parts and labor including x-ray tube</li> <li>Telephone support (within 1 hour) 24 hours per day, 7 days per week</li> <li>On site personnel (within 24 hours)</li> <li>On site spare part (within 24 hours)</li> <li>100% warranty on all parts</li> <li>Preferred rates for labor and travel outside coverage hours</li> </ul>	<ul style="list-style-type: none"> <li>The completion of all the required routine maintenance. This will include replacing all consumable parts such as brushes, batteries and belts as required. Cleaning slip ring, cleaning centipede belt, vacuuming and cleaning interior assemblies</li> <li>Any required software updates (safety and/or specifications)</li> <li>Routine maintenance is required to satisfy the conditions of warranty</li> </ul>

## Dimensions



**Weight: 966 lbs (438 kg)**

## 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 portable platforms.

## For more information

For more information about CereTom®, visit [www.NeuroLogica.com](http://www.NeuroLogica.com)



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