CereTom®
Portable CT Scanner

Bringing the Power of Imaging to Your Patient
Your Multi-Departmental Imaging Solution

"The CereTom is the CT tool of choice in a neurocritical care setting. Its portability allows patients to be scanned in their ICU beds, thus minimizing transport needs and optimizing patient safety. The CereTom performs routine follow-up head CTs in the critically ill patient without sacrificing image quality. It is also able to obtain CTs with contrast, CT angiography, and CT perfusion, which provides clinicians the ability to address nearly every neurological or neurovascular question in the ICU. The CereTom is rapidly becoming an absolute requirement for any modern neuro ICU."

-Lori Shutter, M.D.
Director, NSICU/Neurocritical Care Program Assoc. Professor, Clinical Neurosurgery & Neurology
University of Cincinnati Medical Center

"The CereTom has proven to be a useful tool in the neuro ICU and the operating theater. Using a simple head rest system, images are readily taken with a sterile cover slipped over the patient’s head, thereby causing minimal disruption to the surgical procedure. A CT scan obtained when placing a shunt catheter has proven invaluable in getting the catheter into the correct position on the first visit to the operating room. Using a head fixation system, scans have been obtained during tumor and AVM resection with the frequent observation of the need to do more work that was not apparent without the intraoperative CT. There has been no downside to the use of the scanner especially with the ability to move it into and out of the operating field within a few minutes, thereby providing vital data with minimal disruption or delay."

-Howard Yonas, MD
Chairman, Department of Neurosurgery
University of New Mexico

"The CereTom is a multi-dimensional tool in radiology. Beneficial in so many facets, the CereTom not only frees up our fixed CT scanner for increased throughput and efficiency overall, I can provide a safer experience to critical patients and overall better care with bedside CT imaging without sacrificing image quality."

-Cliff Sissel RT(R)(CT)
CT Manager
University of Chicago Medical Center

Extending Radiology's Reach Into...

**Critical Care**
- Neuro
- Pediatric
- Neonate
- Cardiac
- Burn

**OR**
- Neuro
- Maxillofacial
- ENT
- Pediatric
- Interventional Suite
- Plastic Surgery

**Clinic**
- Neuro
- ENT
- Radiology

**ED**
- Shock Trauma
- Stroke
The CereTom combined with the DORO CereTom Radiolucent Skull Clamp and Horseshoe provide 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.

Critical Care (Neuro, Pediatric, Neonate, Cardiac, Burn)

“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.”

Associate Director, Surgical Intensive Care Unit
Director, Trauma Service:Lahey Clinic

Operating Room (Neuro, Maxillofacial, ENT, Pediatric, Interventional Suite, Plastic Surgery)

The CereTom combined with the DORO CereTom Radiolucent Skull Clamp and Horseshoe provide 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 (Neuro, ENT, Radiology)

“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
Chairman, Department of Otolaryngology
Lahey Clinic

Emergency Department (Shock Trauma, Stroke)

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 First

Safe to 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 to Staff

How safe is the CereTom? According to the ALARA standard (500mRem/year per operator), and using a typical brain scan protocol (15 Rotations x 2 seconds per rotation x 7 mA = 210 mAs), 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 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 Typical Head Scan

**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.
The CereTom Portable CT Scanner

The CereTom is an 8-slice CT scanner that delivers the highest quality Non-Contrast, Angiography, Contrast Perfusion and Xenon Perfusion scans in every conceivable patient location.

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

CereTom Imaging Station

The CereTom Imaging Station comes installed with Barco’s Voxar 3D™ advanced visualization software package allowing for 2D, 3D and MPR viewing.

The workstation produces DICOM 3 compliant images and with the modality worklist module, allows for seamless integration with every known PACS system.

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

CereTom Scan Board & 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.

Drive System Option

CereTom® Scanner Drive System (SDS)

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.
The Details...

**CereTom Core System**
- 8 Slice True CT Scanner
  - Complete self contained lead shielding
  - Onboard 10” LCD touch screen
  - DICOM 3 images compliant with CereTom modality worklist module
  - Integrates with all PACS
  - 1.25, 2.5, 5.0, 10.0mm slice thickness
- **Laptop Imaging Computer with 17” hi-res Monitor**
  - Hardware
    - Processor: Intel® Core™ 2 Duo Processor 3 GHz
    - Memory: 2 GB
    - Hard Drive: 120 GB
    - OS: Windows XP Professional
    - Monitor Resolution: 1920 x 1200
  - Advanced Visualization Software Package (Barco’s Voxar 3D™)
    - 2D
    - 3D
    - MPR viewing
- **Radiolucent Universal Scan Board**
  - Radiolucent Carbon Fiber Material
  - Compatible with all bed types
    - Stryker
    - Hill-Rom
    - KCI
  - Attaches to the head of the bed
  - Patient slides up
  - Board attaches to scanner for easy transport
  - Allows for patient to be scanned in their OWN bed
- **Bed Adapter**
  - Designed to fit any bed
  - Allows for optimized position of scan board for patient bedside scanning
  - Adapter allows for any bed to convert into the CereTom Scanning Platform
- **4 Day Onsite Training**
  - Conducted by a NeuroLogica clinical specialist (up to 16 CEU Credits)
- **1 Year All Inclusive Warranty**
  - Covers all parts and labor including X-Ray tube
  - Telephone Support (within 1 hour) 24 hours per day, 7 days per week
  - On site personnel (within 24 hours)
  - On site Spare part (within 24 hours)
  - 100% Warranty on all parts
  - Preferred rates for labor and travel outside coverage hours
  - 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
  - Any required software updates (Safety or specification)
  - Routine maintenance is required to satisfy the conditions of warranty

**Dimensions**
- Bore Diameter: 32.5 cm (318mm)
- Weight: <900 lbs/(408kg)
NeuroLogica Corporation, located in the Boston metro area, develops, manufactures and markets innovative medical imaging equipment for healthcare facilities and private practices worldwide.

Established in 2004, NeuroLogica’s founders have over 100 years of combined experience in the design, development and manufacturing of imaging systems including ultrasound, CT, PET, radiation therapy and MRI.

The original CereTom system, launched in 2005, is currently in use in intensive care units, neurosurgical operating rooms, emergency rooms, stroke centers and clinics, of many of the top Neuroscience programs around the globe.


The combination of portability, affordability, ease of use and flexible scanning options, make the CereTom the “RIGHT” choice for your point-of-care scanning.

For more information including product specifications, clinical images and customer testimonials, we invite you to visit our website at:

www.NeuroLogica.com