

BodyTom[®]

Relentless Innovation for your Diagnostic Confidence

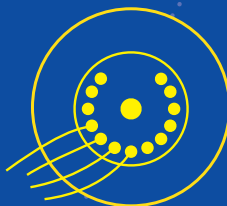


BodyCompetent

BodyTom® brings the power of imaging to your patients. Make BodyTom® your facility-wide solution.



Neurosurgery



BrachyTherapy



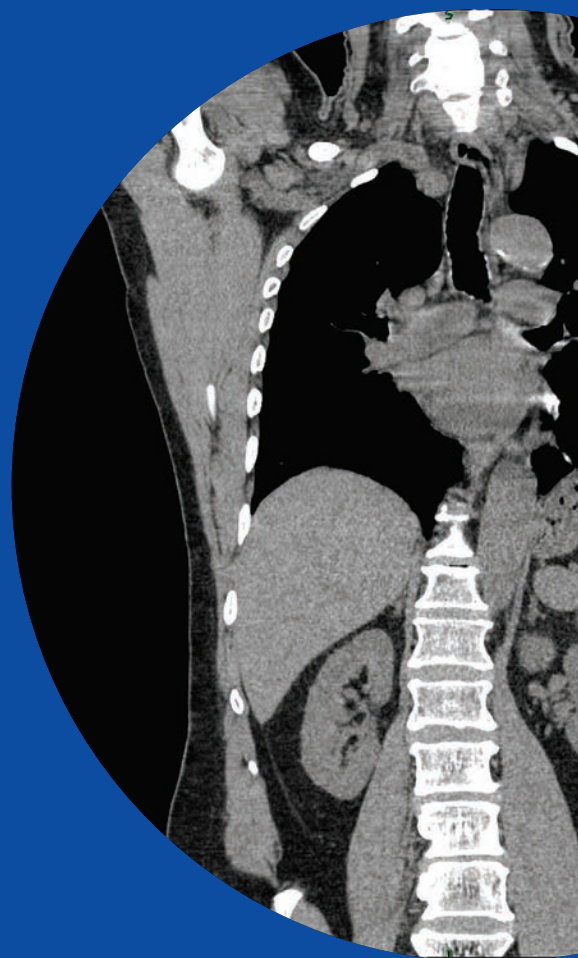
Interventional
CT



Diagnostic
Radiology



Orthopedic
Surgery



Get to know BodyTom®



Integrated Drive System

The internal drive system allows the scanner to be transported where CT imaging is needed in your facility. The BodyTom® can be easily navigated using the 130° wide-angle camera and heads up display to see and avoid obstacles, which may be in the systems path.

BodyTom® Mobile CT

The BodyTom® product line is a multi-departmental imaging solution capable of transforming a room in the hospital into an advanced imaging suite. The system boasts an impressive 85 cm bore size and 60 cm field of view, the largest field of view available in a mobile CT scanner.



BodyTom® Elite

32 slice full-body mobile CT scanner for standard imaging.



BodyTom® 64

64 slice full-body mobile CT scanner for higher resolution imaging.

BodyTom® Workstation

BodyTom® Workstation is a mobile imaging station with advanced visualization software allowing for 2D, 3D and MPR viewing. With its wireless communication capability, BodyTom easily integrates with hospital information systems, surgical navigation, and other technology platforms.

Powered by 8-core, 1.70 GHz processor, the workstation with 32 G of RAM and a NVIDIA Quadro help power the 27" display for in room viewing and 1TB of storage. On-board lead shielding provides additional protection for the workstation operator.





BodyTom®

Cybersecurity



Protect Sensitive Information

The BodyTom's hardware is equipped to deal with the most demanding FDA and hospital guidelines for data and communication encryption. Patient data is protected at all times with secure erase features and limited stored information on the Workstation.



Secure your Care

Cybersecurity in healthcare poses a unique challenge – highly sensitive patient information may become direct targets of attacks. To address this need for cybersecurity, NeuroLogica provides a solution to protect against cyberthreats that may compromise patient data and ultimately degrade the quality of care. NeuroLogica's Cybersecurity Solution strives to abide by the CIA triad (Confidentiality, Integrity, and Availability) and takes a comprehensive approach to providing protection with the following pillars: Intrusion Detection, Access Control, Data Protection, and Vulnerability Assessment.



Intrusion Detection

Antimalware

Security tools such as antimalware and firewalls are required to effectively reduce security threats. Antimalware software protects against infections caused by many types of malware, including all types of viruses, as well as rootkits, ransomware and spyware.

Operating System Safety

NeuroLogica's CT devices use Windows and Ubuntu operating systems (OS). The OS provides the ability to establish a user interface, and execute and provide services for running the scanner. Neurologica blocks unnecessary OS services, shared resources, and user accounts to minimize security threats.





Data Protection

Data Encryption

To prevent unauthorized access to sensitive data, NeuroLogica has implemented “data-at-rest” encryption. CT medical devices store all patient information in an encrypted format. Disk encryption is primarily used to encrypt the entire storage, requiring a passphrase to access the system.



Access Control

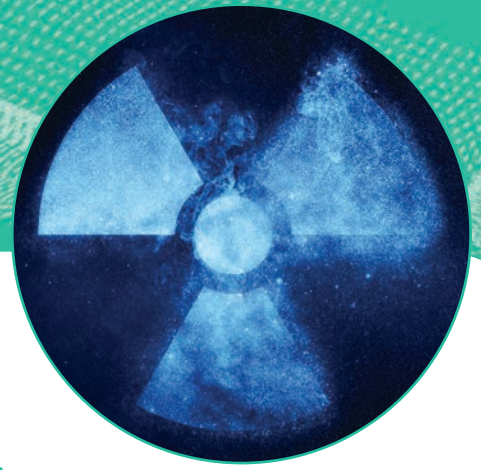
Account Management

NeuroLogica’s CT medical devices provide role based authentication to ensure that users have access to only the necessary functions needed for their role. User management functions such as complex password settings, account lockouts, and password expirations encourage safe user account management.

Audit Trail

NeuroLogica’s CT medical devices track user activities performed on the devices in order to aid in the investigation of cybersecurity threats. The audit trail records major security logs such as user login info, creation and modification of patient information, as well as several other user activities.





BodyTom® Product Line

Radiation Safety

Safety for Staff

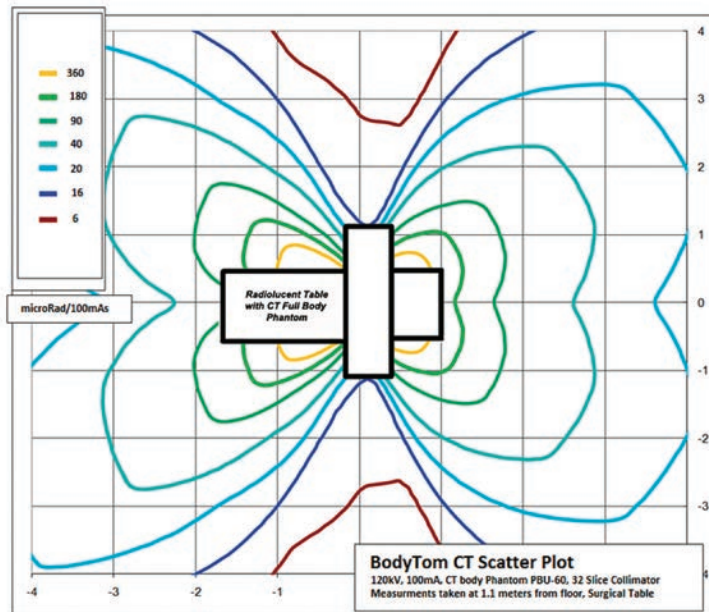
Radiation worker's recommended annual exposure is not to exceed 500 mRem/year. Using a typical scan protocol at a distance of 3 meters (9 feet) from the BodyTom's isocenter, your operator can perform over 50 scans per day, for 250 days per year without any additional lead protection.

The BodyTomTom® is internally coated with 0.75 mm laminated lead providing maximum scatter reduction. The mobile workstation has an optional* pediatric and adult mounted lead glass shield providing additional 0.5 mm Pb equivalent protection to the operator.



Safety for Patients

BodyTom® meets the American College of Radiology's recommended guidelines for Computed Tomography Dose Index (CTDI). It is compliant with NEMA XR-29 and MITA Smart Dose, offering radiation dose structured reporting, pediatric & adult reference protocols, CT dose check, and automatic exposure control.



Each square represents 1m².

Exposure isolines for 120, kVp, 100 mA.
No Patient Absorption. Measurement in μR .

Scatter data was acquired using the CT body Phantom PBU-60. The data was measured using a scan protocol with 120 kV, 100 mA, taken at 1.1 meters from the floor. The iso-dose curve are presented in μR per scan. The data can be converted to μRem by using the multiplication factor 0.87. (Radcal Corp., 20X6- 1800 1800 cc probe, 2026C meter).

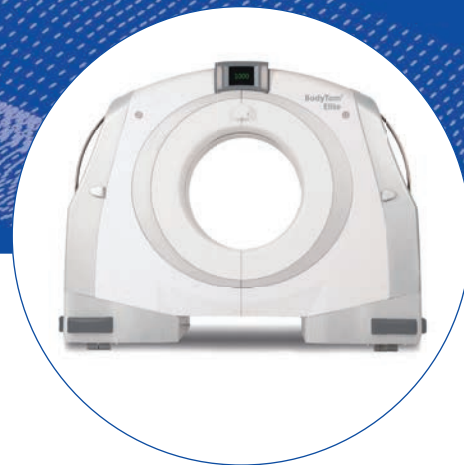
* Included in bundle for United States.



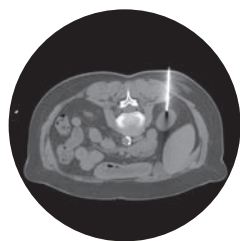
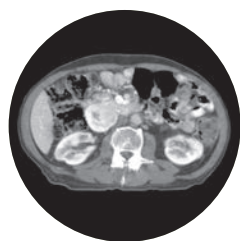
Data Sheet

BodyTom[®] Elite

Mobile full body **32-slice** CT scanner



Bringing the
Power of Imaging
to your Patients



Installation Requirements

Phase	Single
Voltage	90 – 264 VAC
Frequency	47 – 63 Hz
Battery Capacity	Fully Charged – 12 hours (typical)
Typical Usage	120 V/20 A – 240 V/30 A (dedicated)
Noise	60 dBA (1 meter distance from scanner bore) 65 dBA (scanner bore)

Site Requirements

Operating Temperature	15 °C to 35 °C
Storage Temperature	-25 °C to 70 °C
Operating Altitude	0 – 3048 m (0–10,000 ft)
Operating Humidity Condensing	20 – 80 % non-condensing
Floor Flatness	<+/- 0.120 inch (3 mm) per 10 ft

Geometry

Patient Opening	85 cm
Scanned Image Field of View	60 cm

X-ray Generation

X-ray Tube Voltage	80, 100, 120, 140 kV
X-ray Tube Current	30 – 300 mA
Focal Spot Size	1.2 mm x 1.4 mm
Power Supply	42 kW
Heat Capacity	3.5 MHU

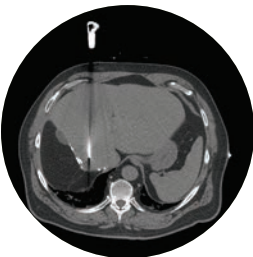
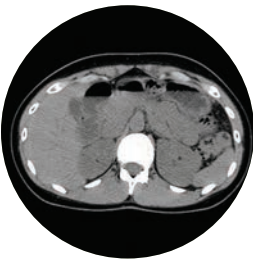
X-ray Detection

Detection System	Solid-state detectors
Main Detector	32 Rows

Axial

Number of Rotations per Slice	1 or 2
Max. Scan Range	900 mm (90 cm)
Coverage	8 x 1.25 mm





Helical

Rotation Time	1 sec
Max. Scan Range	2,000 mm (200 cm)
Coverage	32 x 1.25 mm
Helical Scan Pitch	0.4, 0.8

Dynamic

Rotation Time	1 sec
Scan Range	40 mm (4 cm)
Scan Time	60 sec

Image Reconstruction

Reconstruction Matrix	512 x 512
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Image Field of View

Reconstructed Field of View	5 – 60 cm
Number of Images per second	16 images/second

Connectivity

Gigabit ethernet/wireless(A/B/G/N)
DICOM 3.1 compliant
Compatible with surgical navigation, HIS, RIS, PACS

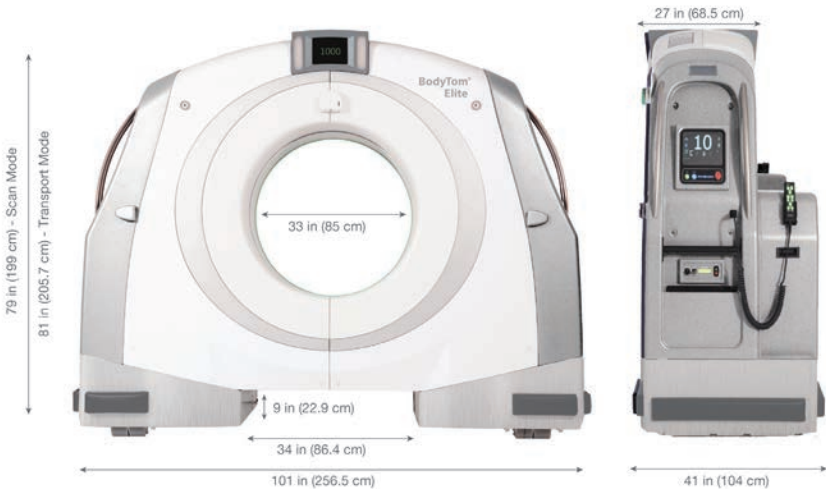
Safeguards

Meets ACR IQ and dose standards for ABD and head scans
Dose display prior to scan
Secure log-in
Admin privileges needed to change protocol
Excessive dose lockout
Dose reporting/auditing

Dimensions

Height:	79 in (199 cm) Scan Mode
Height:	81 in (205.7 cm) Transport Mode
Length:	101 in (265.5 cm)
Width:	41 in (104 cm)
Weight:	3510 lbs (1592 kg)

*All features and options may not be available in every country and depend on regulatory approval/clearance.



Point-of-care CT

Multi-departmental imaging solution

Battery operated

Charges from standard wall outlet

Integrated shielding

Internally lead shielded

NeuroLogica, the healthcare subsidiary of Samsung Electronics Co., Ltd., develops, manufactures, and markets innovative imaging technologies and is committed to delivering fast, easy, and accurate diagnostic solutions to healthcare providers. NeuroLogica is a manufacturer of mobile computed tomography systems located in Danvers, MA, where all our products are made. NeuroLogica's growing portfolio of advanced medical technologies are used worldwide in leading healthcare institutions helping providers enhance patient care, improve patient satisfaction, and increase workflow efficiency.

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The BodyTom® is proudly manufactured in the USA.