

Bringing the power of imaging to your patients

BodyTom® Elite

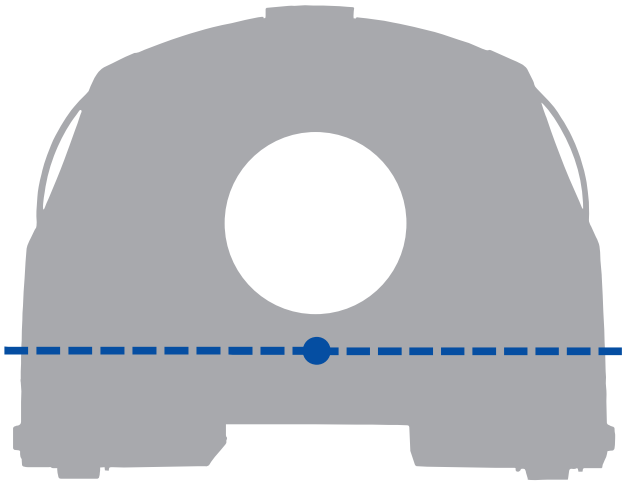
Mobile full body 32-slice CT scanner



NeuroLogica
A Subsidiary of Samsung Electronics Co., Ltd

Point-of-care CT imaging

Your *multi-departmental* imaging solution



Orthopedic surgery

- Arthroplasty
- Musculoskeletal disorders
- Hip replacement
- Acetabular fracture
- Knee replacement
- Fractured femur
- Pelvis
- Pediatric orthopedic procedures

Neurosurgery

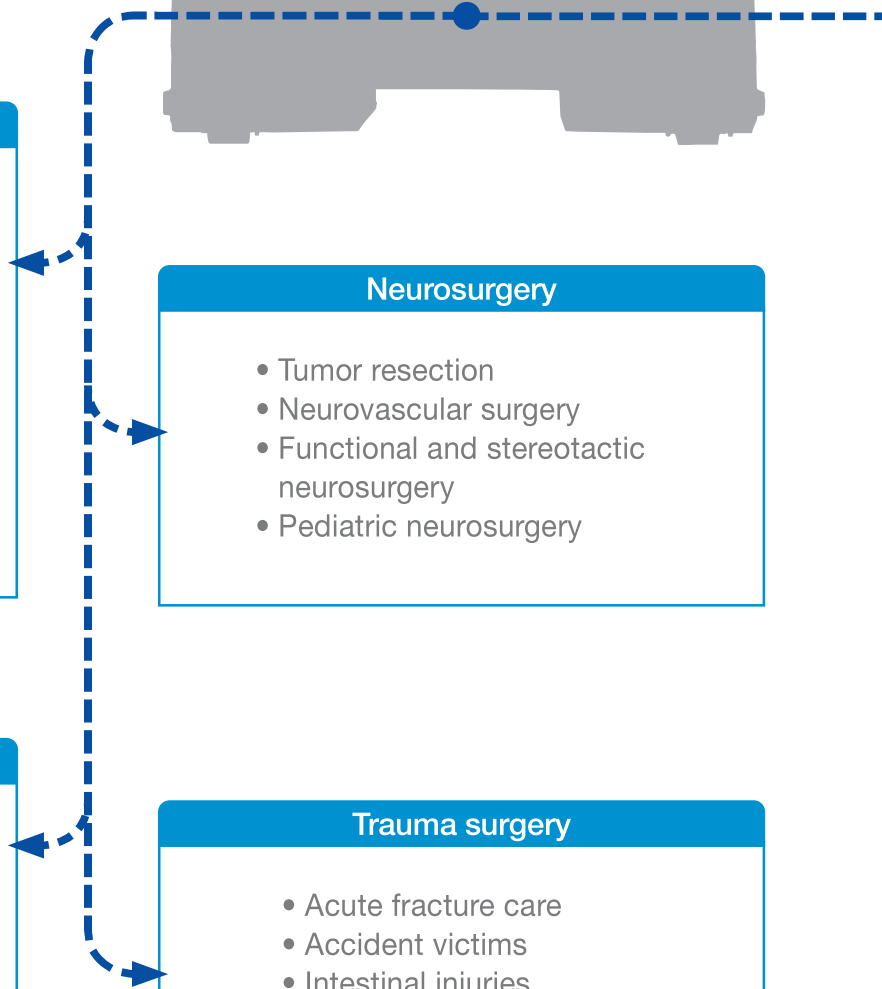
- Tumor resection
- Neurovascular surgery
- Functional and stereotactic neurosurgery
- Pediatric neurosurgery

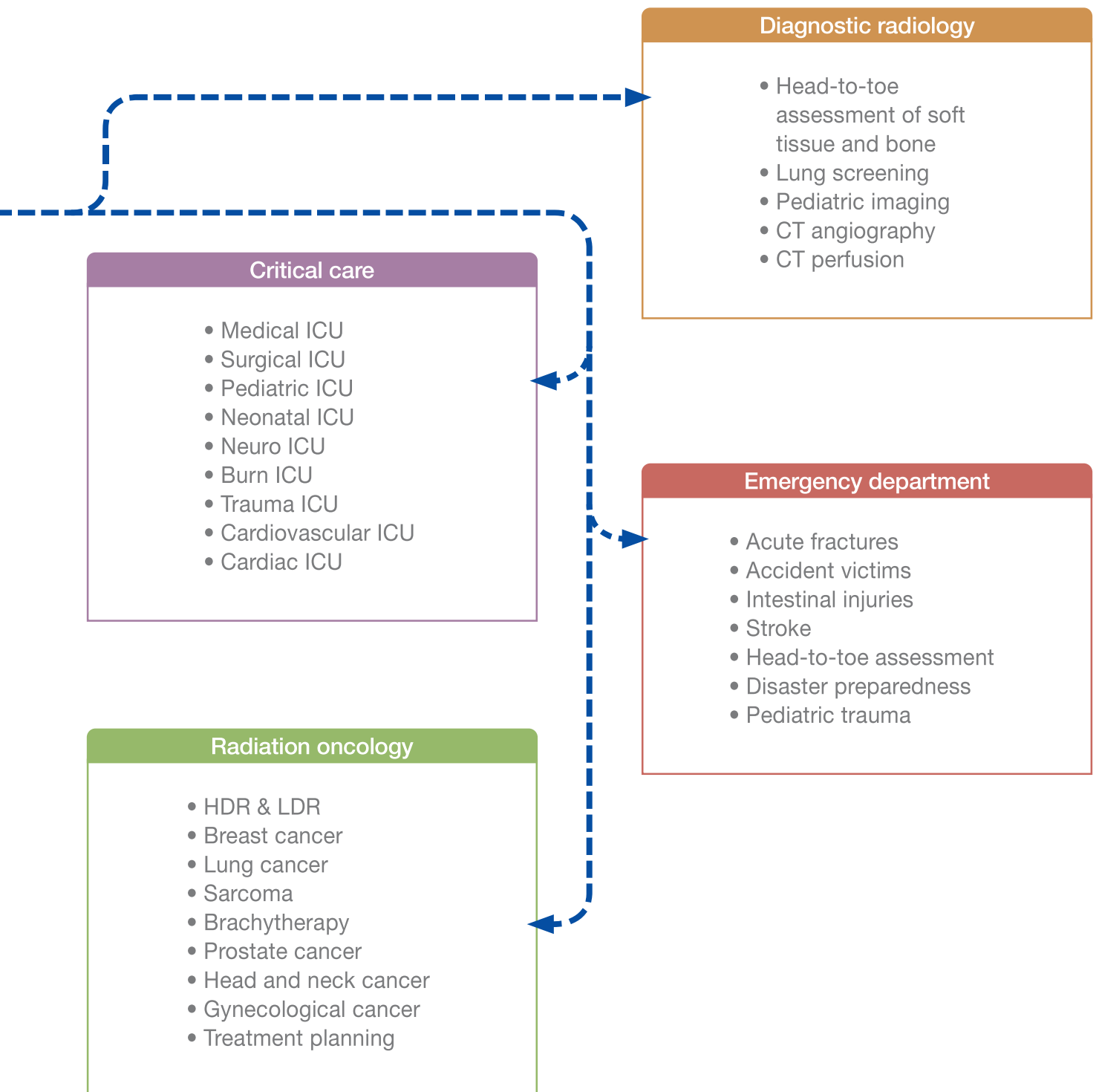
Spine surgery

- Neuromuscular scoliosis
- Cervical, thoracic and lumbar fusions
- Laminoplasty
- Laminectomy
- Vertebroplasty
- Kyphoplasty
- Pediatric spine surgery

Trauma surgery

- Acute fracture care
- Accident victims
- Intestinal injuries
- Head-to-toe assessment
- Pediatric trauma surgery

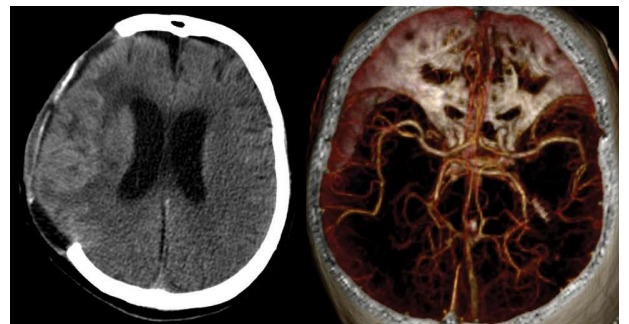




Intraoperative applications

Cranial neurosurgery

The BodyTom® Elite mobile CT, combined with any radiolucent skull fixation device, will transform the operating room into an intraoperative neuro-imaging suite. BodyTom Elite is compatible with surgical navigation and planning systems and provides affordable high quality imaging, enhancing neuro-navigation and surgical outcomes.



Trauma surgery

Rapid triage and management of patients with acute injuries are key elements to trauma care. The BodyTom Elite mobile CT scanner is a complete scanning tool for all emergencies. The unique combination of internal lead shielding and cutting-edge on-board battery system allows any standard trauma bay to be transformed into an advanced CT imaging suite. Such flexibility makes the BodyTom Elite your perfect head-to-toe trauma CT imaging solution.



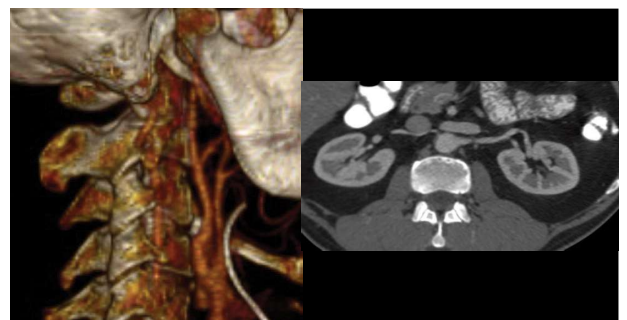
Spinal neurosurgery

An 85 cm gantry and 60 cm field of view allows BodyTom Elite to transform any operating room into an intraoperative spine imaging suite. The BodyTom Elite is compatible with surgical navigation and planning systems and is capable of imaging the entire spine from C1 to S5 in a single pass, providing high quality 3D images of both bone and soft tissue.



Orthopedic surgery

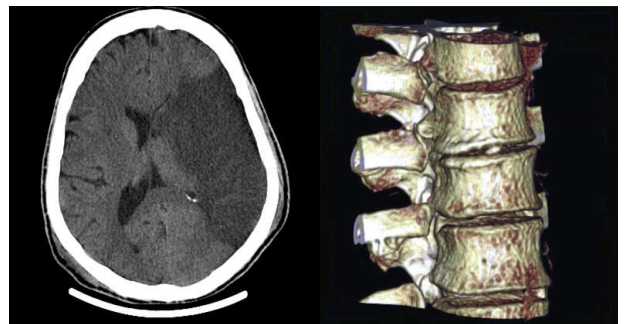
The ability to perform high quality CT scans in an operating room can dramatically improve both efficiency of care and patient safety. Its internal drive system enables the BodyTom Elite to be moved between operating rooms, providing necessary scans of critically ill patients. With the BodyTom Elite, any standard operating room can be temporarily or permanently converted into an advanced imaging suite without the expensive build-out costs associated with installing a fixed CT scanner.



Other clinical applications

Critical care

The ability to perform high quality CT scans in an ICU can dramatically improve both efficiency of care and patient safety. Its internal drive system enables the BodyTom Elite to be moved throughout the ICU, providing necessary scans of critically ill patients. With the BodyTom Elite, any standard ICU room can be temporarily or permanently converted into an advanced imaging suite without the expensive build-out cost associated with installing a fixed CT scanner.



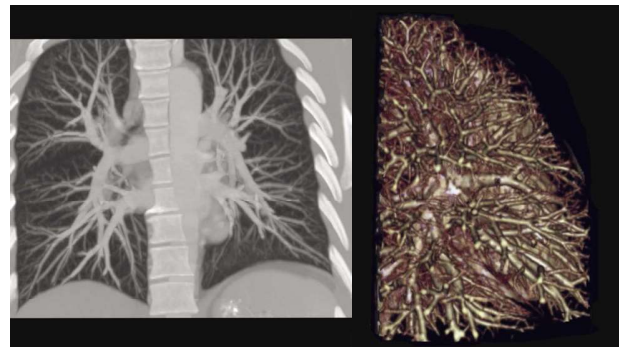
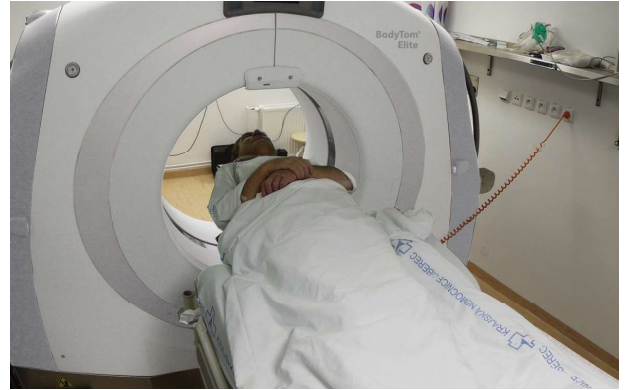
Emergency department

Rapid triage and management of patients with acute injuries are key elements to emergency care. The BodyTom Elite mobile CT scanner is a complete scanning tool for emergencies. The unique combination of internal lead shielding and an cutting-edge on-board battery system allows any standard emergency department to be transformed into an advanced CT imaging suite. Such flexibility makes the BodyTom Elite your perfect head-to-toe CT imaging solution for emergency care.



Diagnostic radiology

The large bore BodyTom Elite mobile 32-slice CT scanner with an 85 cm gantry and a 60 cm field of view accommodates the vast majority of patients and provides high quality images of both soft tissue and bone for accurate diagnosis. The DICOM 3.1 compliant images are immediately shared with hospital information systems for expedited patient care. The portability and seamless integration eliminates the expensive build-out cost and makes the BodyTom Elite an affordable primary or backup CT solution for any modern radiology department.



Radiation oncology

CT scans from the BodyTom Elite can help radiation oncologists design treatments with a high level of accuracy, ensuring that tumors get the most effective dose while healthy surrounding tissue and organs are spared. The BodyTom Elite is an ideal 3D imaging tool for use with HDR and brachytherapy applications. The affordability of the system enables you to turn any oncology treatment room into a high resolution imaging suite. Given that the BodyTom Elite is a true CT, it can be a useful treatment planning modality.



Core system

BodyTom® Elite point-of-care mobile CT scanner

BodyTom Elite brings the power of innovative imaging to the bedside. As the world's first mobile full body 32-slice CT scanner, BodyTom Elite is capable of transforming any room into an advanced imaging suite.

Uniquely designed to accommodate patients of all sizes, BodyTom Elite provides point-of-care CT imaging wherever high quality CT images are needed.



BodyTom Elite mobile imaging station

BodyTom Elite's Mobile Imaging Station has advanced visualization software allowing for 2D, 3D and MPR viewing. With its wireless communication capability, BodyTom Elite easily integrates with hospital information systems, surgical navigation, and other technology platforms.

On-board lead shielding provides additional protection for the workstation operator.



Internal drive system

BodyTom Elite's internal drive system allows a single operator to transport and setup the scanner anywhere it needs to go. Hospital corridors are easily navigated using the 130° wide-angle camera.



Safety

The BodyTom Elite is designed with patient and staff safety in mind. The core system comes standard with internal lead shielding to help safeguard against unnecessary scatter exposure. Additional protection is provided by an optional lead shield mounted to the BodyTom Elite imaging workstation.

More standard safety features

System control

- Meets ACR accreditation guidelines
- Key lockout feature
- Individual user log-in
- Preset scanning protocols
- QA phantom test & report
- Patient intercom system

Radiation safety

- Internal lead shielding in the gantry
- Lead shield mounted to workstation
- Protocols based on age/weight
- Dose reduction software available
- Structured dose reporting



Overview & specifications

Portability

- Easy to use, built-in drive system
- Internal lead shielding
- Battery powered
- Plugs into a standard wall outlet for charging
- Wide-angle drive camera
- Mobile imaging station

Seamless integration

- DICOM 3.1 compliant
- Wireless communication
- Interfaces with PACS
- Health Information System (HIS)
- Radiology Information System (RIS)
- Integrating the Healthcare Enterprise (IHE)
- Interfaces with surgical navigation systems
- Dose check

Imaging

- 32 Slice x 1.25 mm = 4 cm aperture
- 85 cm gantry
- 60 cm FOV
- 1.25 mm, 2.5 mm, 5.0 mm, 10 mm slice thickness
- 512 X 512 image matrix
- Maximum scan length of 2 meters
- Scout scanning
- CT angiography
- CT perfusion

Imaging station

- 27" LCD | Monitor
- 2D, 3D, and MPR viewing tools

Scanning modes

- Axial
- Helical
- Dynamic

Training

- On-site training led by a NeuroLogica Clinical Applications Specialist
- Biomedical engineer and first responder training available

1 year all inclusive warranty

- Covers all parts and labor (x-ray tube included)
- 100% warranty on all parts
- Required routine preventative maintenance
- Software updates (safety and/or specification)

Technical specifications

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
Max. Scan Time	60 sec
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

Image Quality

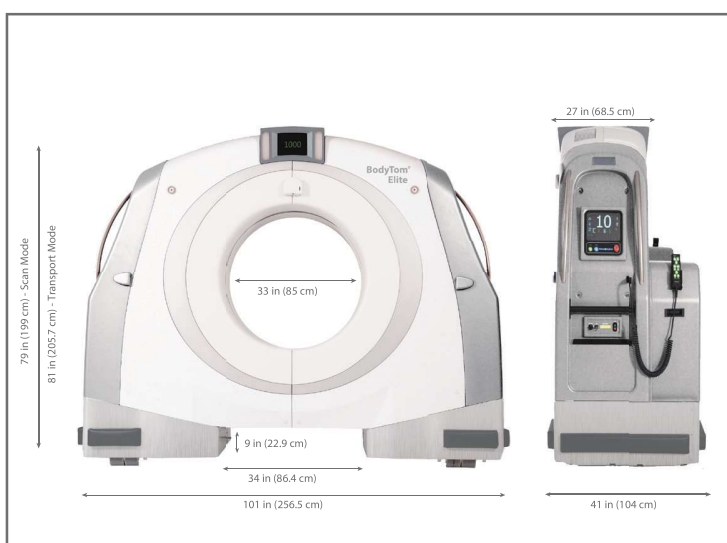
Document provided upon request

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)



Weight 3510 lbs (1592 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 mobile platforms.

For more information

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



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