

Portable full body 32-slice CT scanner

BodyTom[®]

Bringing the power of
imaging to your patients



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NeuroLogica
A Subsidiary of Samsung Electronics Co., Ltd

BodyTom®

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:	0-3010 m (0-10,000 ft)
Operating humidity:	20 - 80 % non-condensing
Floor flatness:	<+/- 0.120 inch (3 mm) per 10 ft

Geometry

Patient opening:	85 cm
Image field of view:	60 cm

X-ray generation

X-ray beam shape:	Cone beam
X-ray tube voltage:	80, 100, 120, 140 kV
X-ray tube current:	50 - 300 mA
Focal spot size:	Large: 1.2 mm x 1.4 mm Small: 0.7 mm x 0.8 mm
Power supply:	42 kW
Heat capacity:	3.5 MHU

X-Ray detection

Detection system:	Solid-state detectors
Main Detectors:	32 rows

Safeguards

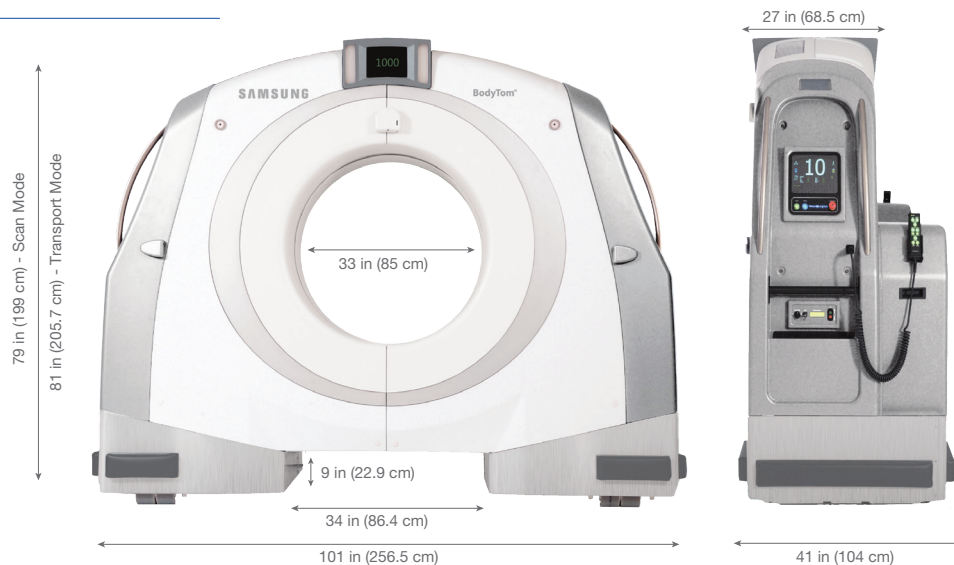
- Meets ACR accreditation tests for image quality and CTDI dose
- Dose display prior to scan
- Secure log-in
- Admin privileges needed to change protocol
- Excessive dose lockout
- Dose reporting/auditing

Dimensions

Weight: 3510 lbs (1592 kg)

* Scan Protocol: 120 kV, 200 mA, 2 seconds; 5 mm slice thickness; PostFossa Kernel; 20 cm water phantom.

** Scan Protocol: 120 kV, 200 mA, 1 second; 10 mm slice thickness; Soft Tissue Kernel; CTP515 Catphan low contrast module.



Axial

Rotation time:	1 sec, 2 sec
Max. scan range:	900 mm (90 cm)
Coverage:	8 x 1.25 mm
Image reconstruction time:	16 images/sec

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
Image reconstruction time:	16 images/sec

Dynamic

Rotation time:	1 sec
Scan coverage:	40 mm (4 cm)
Max scan time:	60 sec

Image quality

Noise STD:	Approx. 0.3%*
Low contrast detectability:	5 mm at 0.3%**
Spatial resolution:	Soft tissue kernel: 7.0 lp/cm @ 0 % MTF High resolution kernel: 17.0 lp/cm @ 0 % MTF
Reconstruction matrix:	512 x 512

Connectivity

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