Portable full body 32-slice CT scanner

BodyTom®
Bringing the power of imaging to your patients

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### Installation requirements

<table>
<thead>
<tr>
<th>Phase</th>
<th>Single</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>90 - 264 VAC</td>
</tr>
<tr>
<td>Frequency</td>
<td>47 - 63 Hz</td>
</tr>
<tr>
<td>Battery capacity</td>
<td>Fully charged -12 hours (typical)</td>
</tr>
<tr>
<td>Typical usage</td>
<td>120 V/20 A - 240 V/30 A (dedicated)</td>
</tr>
<tr>
<td>Noise</td>
<td>60 dBA (1 meter distance from scanner bore) 65 dBA (scanner bore)</td>
</tr>
</tbody>
</table>

### 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

### Connectivity

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

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