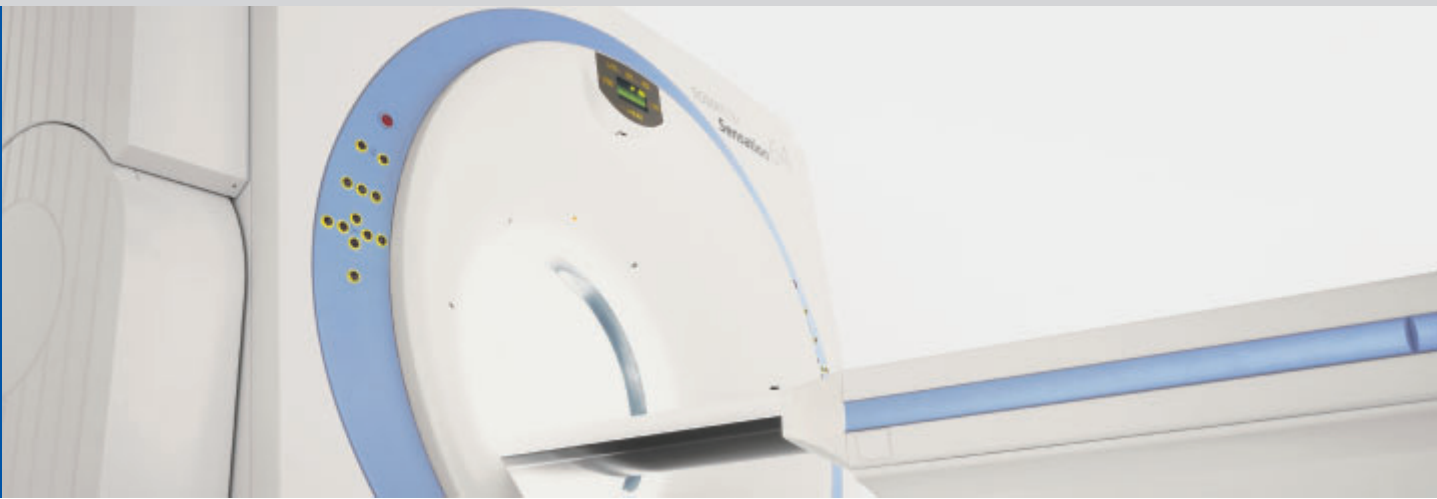


Data



Take the Lead in CT

SOMATOM Sensation 64

SIEMENS
medical

“Imaging of this
quality,
sharpness,
and **speed**

gives us the opportunity
to study the human anatomy at a level
that has only been **dreamt** about.”

Werner A. Bautz, MD, Chairman, Department of Diagnostic Radiology
at the University Erlangen-Nuremberg, Germany

Siemens Medical Solutions has been the leader in CT innovation for over 30 years. Once again, we demonstrate our leadership in technology and advanced applications with the introduction of our new flagship products, the SOMATOM® Sensation 40 and the SOMATOM Sensation 64. Our customer-focused philosophy has always been to continually integrate cutting-edge, imaging applications into daily clinical practice. With the high-end SOMATOM Sensation scanners, we continue this tradition and firmly establish a new industry benchmark for diagnostic excellence. A significant improvement in visualization of the finest details is what physicians expect from the latest CT technology: The SOMATOM Sensation perfectly meets this requirement by pushing the boundaries of temporal and spatial resolution to a new level, with previously unachievable image quality. At Siemens, yesterday's vision is today's reality – both SOMATOM Sensation 40 and SOMATOM Sensation 64 provide breathtaking image sharpness and clarity, combined with the simplicity and speed of seamless integrated workflow.

The SOMATOM Sensation 40 provides access to Siemens' revolutionary z-Sharp™ Technology, while the SOMATOM Sensation 64 takes you to the peak of clinical performance. Empowered by the Siemens unique STRATON® tube and z-Sharp Technology, the SOMATOM Sensation 40 and the SOMATOM Sensation 64 allow you to routinely achieve unprecedented diagnostic detail with the industry's highest isotropic resolution of below 0.4 millimeter and fastest rotation time of up to 0.33 seconds. By utilizing the most powerful advanced applications, every user can routinely image the smallest pathology and finest anatomical structures in just a few seconds. Additionally, the optimized workflow enhances clinical performance while maintaining patient focus and comfort.

Invest in the future. Experience first-hand what it means to have the industry's most innovative CT scanner and achieve a quantum leap in CT diagnosis with the SOMATOM Sensation. Take the Lead in CT!



Technology and Data

SOMATOM Sensation 64 Product Matrix

Basic configuration	<i>STRATON X-ray tube with 0.37 s gantry rotation speed, Navigator, 70 kW generator (prepared for 80 kW generator upgradable in 2005)</i>
syngo® Examination	●
syngo Viewing	●
syngo Filming	●
syngo Archiving & Network	●
syngo Dynamic Evaluation	●
Image Filter	●
syngo Service Solutions	●
SOMATOM LifeNet	●
Speed4D Workflow Package (WorkStream4D™, syngo InSpace4D™, Wizard, VolPro and syngo VRT™)	○
Workplaces	
Wizard	○
Additional Wizard	○
syngo 3D Workstation LEONARDO	○
Volume Pro Graphics	○
Additional configurations	
0.33 s gantry rotation speed	○
Extended Field of View	○
syngo Security Package	○
Clinical 3D Applications	
Real-time MPR	●
syngo 3D SSD	●
Volume Measurements	●
syngo VRT	○
syngo InSpace4D	○

Routine Applications	
CT-Angiography	●
syngo Dental CT	○
syngo Osteo CT	○
syngo Pulmo CT	○
syngo Perfusion CT	○
syngo Fusion	○
CARE Applications	
CARE Bolus CT	●
CARE Dose4D™	●
CARE Vision CT with HandCARE™	○
Advanced Applications	
syngo Fly Through	○
syngo LungCARE	○
syngo LungCARE NEV	○
syngo Colonography	○
WorkStream4D	
Recon card Wizard	○
3D-Recon	○
Cardiovascular Applications	
HeartView CT	○
HeartView CS (HeartView CT, syngo Calcium Scoring)	○
HeartView CI (HeartView CT, syngo Calcium Scoring, syngo Vessel View, syngo Argus)	○
syngo Calcium Scoring	○
syngo Vessel View	○
syngo Argus	○

Technology and Data

Gantry	
Aperture	70 cm
Scan field	50 cm, 70 cm Extended FOV*
Tilt	$\pm 30^\circ$
Rotation time	0.33*, 0.37, 0.5, 1.0 s
Temporal resolution	down to 83 ms (HeartView CT*)
Continuously rotating tube-detector unit with optimized geometry for high-resolution data acquisition across the entire scan field	
Data acquisition system	
Max. number of slices/rotation	64
Number of detector channels (DAS)	64
Number of detector rows	40
Elements	26,880
Total channels per slice	1,344
Number of projections	up to 4,640 (1/360°)
Spiral acquisition modes	64 x 0.6, 20 x 0.6, 20 x 1.2, 12 x 0.6 mm (UHR), prepared for 24 x 1.2 upgradable in 2005
Sequence acquisition modes	30 x 0.6, 20 x 1.2, 1 x 10, 1 x 5, 6 x 0.6 mm (UHR)
z-Sharp Technology	The unique STRATON X-ray tube utilizes an electron beam that is accurately and rapidly deflected, creating two precise focal spots alternating 4,640 times per second. This doubles the X-ray projections reaching each detector element. The two overlapping projections result in an oversampling in z-direction, known as Double z-Sampling. The resulting measurements interleave half a detector slice width, doubling the scan information without a corresponding increase in dose. Siemens' proprietary, Ultra Fast Ceramic (UFC™) Detector and the corresponding 64-slice detector electronics, enables a virtually simultaneous readout of two projections for each detector element – 2 x 32 slices for every viewing angle – resulting in a full 64-slice acquisition. z-Sharp Technology, utilizing the STRATON X-ray tube, Double z-Sampling and the UFC Detector, provides visualization of below 0.4 mm isotropic voxels scan speed independent with a corresponding elimination of spiral artifacts in the daily clinical routine at any position within the scan field.
Speed and efficiency based on Ultra Fast Ceramic (UFC) Detector with ultra short afterglow	
Designed to effectively suppress scattered radiation	

Technology and Data

Generator	
Max. power	70 kW (prepared for 80 kW upgradable in 2005)
Tube assembly	
Tube	STRATON
Tube current range	28–580 mA
Tube voltage	80, 100, 120, 140 kV
Anode heat storage	0 MHU (0.6 MHU capacity combined with 5.0 MHU/min cooling rate is comparable to the performance of a conventional tube with approximately 30 MHU anode heat storage capacity)
Focal spot size	0.6 x 0.7 mm/7° 0.8 x 1.1 mm/7° 0.7 x 0.7 mm/7°
Cooling rate	5 MHU/min
Computer controlled monitoring of anode temperature	
CARE Filter	
Al equivalent	tube: 6.8 mm Al
Beam limiting device	collimator: 0.5 mm Al, 0.6 mm Ti (equivalent to 5.5 Al)

SureView™ Multislice Spiral Image Reconstruction	
Reconstructed slice widths	0.6, 0.75, 1.0, 1.5, 2, 3, 4, 5, 6, 7, 8, 10 mm
Slice increment	0.1–10 mm
Pitch factor	0.45–2.0
Spiral scan time	max. 100 s
Scan length	max. 157 cm
No. of ranges per protocol	15
Automatic clustering of scans	
Optimized special head reconstruction algorithm (PFO: Posterio Fossa Optimization)	

Technology and Data

SureView: Siemens patented solution for Multislice CT reconstruction

Excellent for clinical workflow:

Forget about compromises in your clinical workflow. Just specify the slice thickness in your protocols according to your clinical needs. SureView automatically takes care of providing excellent volume image quality – with superior performance.

Multiply your clinical performance with SureView:

High-quality imaging at any scanning speed. SureView allows the CT scanner to automatically select the necessary pitch value to achieve the coverage and scan time defined by you, while keeping selected slice thickness and image quality.

Up to 20% dose savings in spiral mode:

When employed in spiral scanning, SureView yields a remarkably lower image noise level. Thus, to produce the same noise level of sequential CT images, the spiral scan protocols are created with lower mAs and consequently up to 20% lower dose.

Includes advanced cone beam reconstruction algorithms for elimination of cone beam artifacts with 64-slice acquisition

Topogram

Length	128–1,536 mm
--------	--------------

Scan times	1.5–15.6 s
------------	------------

Views	a.p., p.a., lateral
-------	---------------------

CARE Topo

Real-time topogram

Manual interruption possible once desired anatomy has been imaged

Sequence scan

Reconstructed slice widths	0.6, 1, 1.2, 1.8, 2, 2.4, 3, 3.6, 4.8, 5, 6, 7.2*, 9, 10, 12 mm
----------------------------	---

Scan times (full scan)	0.33*, 0.37, 0.5, 1 s
------------------------	-----------------------

Partial scan times (240°)	0.22*, 0.25, 0.33, 0.67 s
---------------------------	---------------------------

No. of uninterrupted scans per range	100
--------------------------------------	-----

No. of ranges per protocol	15
----------------------------	----

Scan cycle time (min. scan cycle time depending 0.5–1.5 s)	0.75–60 s (± 10%)
--	-------------------

Acquisition with or without table feed

Automatic clustering of scans

Image Quality

Isotropic resolution in clinical acquisition modes
Industry's highest isotropic resolution in all three planes (x, y and z)
<ul style="list-style-type: none">• better than 0.4 mm• in daily clinical routine• at all scan speeds• at all positions of the scan field


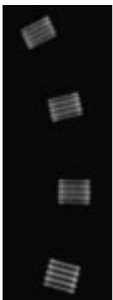
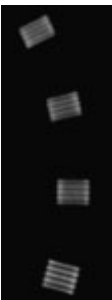

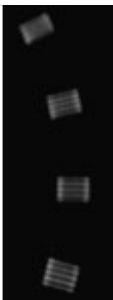
Phantom validation of z-Sharp Technology			
CATPHAN measurement demonstrates technical high-contrast resolution. Up to 0.33 mm is clearly visible with any pitch.			
Pitch	0.55	1.0	1.5
z-axis			
0.33 mm			
0.36 mm			
0.38 mm			
0.42 mm			
CATPHAN measurement demonstrates technical high-contrast resolution. Up to 0.33 mm voxel size is clearly visible at any position within the scan field.			
Pitch	1.0	1.0	
	Center	100 mm off-center	
z-axis			
0.33 mm			
0.36 mm			
0.38 mm			
0.42 mm			

Image Quality

Low-contrast resolution	
Low-contrast resolution is the ability to see	
<ul style="list-style-type: none"> • a small object (mm) • with a certain contrast difference (HU) • on a particular phantom (Ø) • at a certain mAs value (mAs) • with a particular patient dose (mGy) 	
Spiral	
Phantom	CATPHAN (20 cm)
Object size	5 mm
Contrast difference	3 HU
Dose at the surface	19 mGy at 180 mAs
Technique	10 mm, 120 kV
Sequence	
Phantom	CATPHAN (20 cm)
Object size	5 mm
Contrast difference	3 HU
Dose at the surface	17 mGy at 180 mAs
Technique	10 mm, 120 kV

High-contrast resolution					
0% MTF ($\pm 10\%$)		30 lp/cm, 0.17 mm			
2% MTF ($\pm 10\%$)		24 lp/cm, 0.21 mm			
Technique		160 mA, 120 kV, 1.0 s, 0.6 mm			
Homogeneity					
Cross-field uniformity in a 20 cm water phantom		max. ± 4 HU typ. ± 2 HU			
Dose, CTDI ₁₀₀ values					
Phantom		kV	kV	kV	kV
Ø		80	100	120	140
16 cm	A	4.2	8.9	13.2	20.2
	B	4.5	9.2	13.5	21.0
32 cm	A	1.2	2.7	4.3	7.0
	B	2.3	5.0	7.8	12.0
A: at center B: 1 cm below surface					
Technique		Collimation 20 x 1.2 mm 100 mAs 360° rotation PMMA-Phantom Absorbed dose for reference material air Max. deviation $\pm 30\%$ Typically less than 15% Values according to IEC 60601-2-44			

WorkStream

Patient Handling

Patient registration

Online registration

Pre-registration of patients

Emergency patient registration (allows examination without entering patient data before scanning)

Patient information from HIS/RIS via DICOM Get Worklist

MPPS (Modality Performed Procedure Step)

Protocols

Up to 10,000 protocols can be edited, modified and stored

Patient communication

Integrated patient intercom

Automatic Patient Instruction (API)

- *Freely recordable*
- *30 API text pairs*
- *Presets in seven languages available*

Integrated display panel

*Gantry front display showing current scan parameters such as kV, mA, scan time, table position, gantry tilt and ECG trace**

Gantry front and rear control panels

For convenient patient positioning (e.g. in case of trauma or interventional exams)

Gantry tilt control from the operator's console

Lateral and sagittal light markers

Horizontal and vertical laser light, which controls the isocentric position of the patient

Foot pedals

4 pairs of foot pedals are available on the bottom edges of the patient table which allow to lift the table

Patient table

Max. table load 200 kg/450 lbs

Table speed 1–150 mm/s

Vertical table travel range 53–102 cm (at table top)

Vertical travel speed 2.5–45 mm/s

Scannable range (metal-free) 157 cm

Distance between gantry front and table base 37 cm

WorkStream Processing

Image reconstruction	
<i>Real-time display</i>	<i>online reconstruction during scanning</i>
<i>Slice thickness</i>	<i>0.6–10 mm</i>
<i>Scan field</i>	<i>50 cm, 70 cm Extended FOV*</i>
<i>Recon field</i>	<i>5–50 cm, 70 cm Extended FOV*</i>
<i>Recon time</i>	<i>up to 20 images/s with full cone beam reconstruction with z-Sharp Technology with full image quality</i>
<i>Recon matrix</i>	<i>512 x 512</i>
<i>HU scale</i>	<i>–1,024 to +3,071</i>
<i>Extended HU scale</i>	<i>–10,240 to +30,710</i>
<i>Freely selectable slice thickness for prospective and/or retrospective reconstruction</i>	
<i>Real-time image display in 512 x 512 matrix parallel to spiral acquisition (e.g. for trauma)</i>	

Image display: Flat screen	
<i>Monitor size</i>	<i>46 cm (18.1")</i>
<i>Monitor resolution</i>	<i>1,280 x 1,024</i>
<i>Image display matrix</i>	<i>1,024 x 1,024</i>
<i>Pixel size</i>	<i>min. 0.28 mm</i>
CINE display	
<i>Display of image sequences</i>	
<i>Automatic or interactive with mouse control</i>	
<i>Max. image rate > 10/s</i>	
Windowing	
<i>Window width and center freely selectable</i>	
<i>Single window</i>	
<i>Double window (e.g. bone/soft tissue)</i>	
<i>Multiple window settings for multi-image display</i>	
<i>Organ-specific window settings, e.g. for soft tissue and bones</i>	
Filming	
<i>Digital film documentation, connection to a suitable digital camera</i>	
<i>Connection via DICOM Basic print</i>	
<i>Automatic filming</i>	
<i>Interactive virtual film sheet</i>	
<i>Customizable film formats with up to 64 images</i>	
<i>Filming parallel to other activities</i>	
<i>Independent scanning and documentation</i>	
<i>Freely selectable positioning of images onto film sheet</i>	
<i>Configurable image text</i>	
Printing	
<i>Documentation on postscript printer supported</i>	

WorkStream Processing

Image transfer/Networking

Interface for transmitting medical images and information in the DICOM industrial standard. Permits communication between devices from different manufacturers.

DICOM Storage (Send/Receive)

DICOM Query/Retrieve

DICOM Basic print

DICOM Get Worklist (HIS/RIS)

DICOM MPPS (Modality Performed Procedure Step)

DICOM Storage Commitment

Image storage

Main storage 146 GB; 260,000 images

Raw data

Capacity 300 GB

Additional storage

CD-R 700 MB

1,100 images

MOD DICOM* 5.2 GB drive

2.3/4.1 GB cartridge

4,000/7,500 images

Evaluation tools

Parallel evaluation of more than 10 Regions of Interest (ROI)

- Circle
- Irregular
- Polygonal

Statistical evaluation

- Area/Volume
- Standard deviation
- Mean value
- Min./max. values
- Histogram

Profile cuts

- Horizontal
- Vertical
- Oblique

Distance measurement

Angle measurement

Online measurement of a 5 x 5 pixel size ROI

Freely selectable positioning of coordinate system

Crosshair

Image annotation and labeling

WorkStream Processing

Dynamic Evaluation

Evaluation of contrast enhancement in organs and tissues

Calculation of

- *Time-density curves (up to 5 ROI's)*
- *Peak-enhancement images*
- *Time-to-peak images*

2D post-processing

Image zoom and pan

Image manipulations

- *Averaging, subtraction*
- *Reversal of gray-scale values*
- *Mirroring*

Image enhancement algorithms

- *LCE: Low Contrast Enhancement for improving low contrast detectability*
- *HCE: High Contrast Enhancement for increased sharpness of high contrast structures*
- *ASA: Advanced Smoothing Algorithm edge preserving smoothing filter, dedicated to Cardiac exams*

WorkStream4D*

4D workflow with direct generation of axial, sagittal, coronal, or double-oblique images from standard scanning protocols

Elimination of manual reconstruction steps

Reduction of data volume by up to a factor of 10, since virtually all diagnostic information is captured in 3D slices

Additional Configurations

Extended Field of View*

Software program with special image reconstruction algorithms that allow for visualization of objects using a FOV up to 70 cm. The image quality for the area outside the standard 50 cm scan field does not meet the image quality specifications shown in the technical data sheet and image artifacts may appear common, depending on the anatomy scanned.

syngo Security Package*

Provides functionality for user management and flexible access control for patient data

Clinical 3D Applications

Real-time MPR

Real-time multiplanar reformatting of secondary views

Variable slice thickness (MPR thick, MPR thin) and distance with configurable default values

Viewing perspectives

- Sagittal
- Coronal
- Oblique
- Double oblique
- Freehand (curvilinear)

syngo 3D SSD

SSD: Surface Shaded Display

Three-dimensional display of surfaces with different density values

- Soft tissue
- Bone
- Contrast-enhanced vessels

Volume measurements

Measurements of various tissues and organs with HU-based region growth algorithms and interactive ROI definition

syngo VRT* (Volume Rendering Technique)

Advanced 3D application package for the optimal display and differentiation of different organs through independent control of color, opacity and shading in up to 4 tissue classes

syngo InSpace4D* – real-time interactive cardiac evaluation, in space and time

4D evaluation of the beating heart with full resolution
Real-time navigation through moving anatomy in user selectable arbitrary planes

High performance volume reading for physician's diagnosis and pre-surgical planning in daily clinical routine

Routine Applications

CT-Angiography

MIP: Maximum Intensity Projection

MinIP: Minimum Intensity Projection

Thin MIP function for projection within a small slab to focus on particular vascular structure

Evaluation of spiral images and display of vessels, vascular anomalies, aneurysms, plaques, and stenoses

syngo Dental CT*

Reformatting of panoramic slices and paraxial sections through the lower and upper jaw for analysis in connection with implantation surgery

syngo Osteo CT*

Measures the mineral density of the lumbar spine to help early diagnosis of osteopenia and osteoporosis, and to assess the effectiveness of treatment

syngo Pulmo CT*

Quantitatively evaluates lung density and structure to help early diagnosis and treatment of lung disease and surgical intervention planning

syngo Perfusion CT*

Evaluates dynamic CT data of the brain. It mainly aids in the early differential diagnosis of acute ischemic stroke – even in emergencies. Additionally it allows imaging of blood brain barrier disruptions in brain tumors.

syngo Fusion*

Registration and composite display of CT, MR, NM and PET images

Advanced Applications

syngo Fly Through*

Virtual Endoscopy software for perspective visualization of vessels, airways and intestinal organs

syngo LungCARE*

Software for fast 3D-based visualization of pulmonary nodules, with the lowest possible radiation exposure

syngo LungCARE with NEV (Nodule Enhanced Viewing)*

Provides computer supported identification of nodules, making diagnosis much easier for physicians and offering a second reader opinion

syngo Colonography*

Locates and evaluates colon polyps using non-invasive, real-time virtual 3D endoluminal viewing

Cardiovascular Applications

CARE Solutions

HeartView CT*

ECG-synchronized true isotropic volume acquisition using prospective ECG triggered or retrospective ECG-gating mode

Basis for 3D cardiac reconstructions, e.g. CT-Angiography of the coronary vessels and Calcium Scoring

Quality control tools enable retrospective ECG-viewing and interactions as well as computer assisted heart phase definition

The ECG trace used for gating of the CT images is supplied by an integrated ECG device and ECG display on the gantry front cover

syngo Calcium Scoring*

Displays the quantity and distribution of coronary calcification for the diagnosis and treatment of cardiac disease

syngo Vessel View*

Supports automatic quantification of stenoses and evaluation of aneurysms – for potentially faster diagnosis of vascular disease

syngo Argus*

Dedicated software for virtual 4D-Viewing and semi-automated quantification of ventricular function

SureView – Multislice Spiral Image Reconstruction

Dedicated patented reconstruction algorithm for perfect volume imaging

Brilliant image quality and dose savings up to 20% in spiral mode

Includes advanced cone beam reconstruction algorithms for elimination of cone beam artifacts with 64-slice acquisition

UFC – Ultra Fast Ceramic Detector

Low patient dose. *Up to 30% dose reduction compared to conventional CT detectors.*

High efficiency for low mAs requirements enable best possible image quality with low patient dose.

More speed. *Ultra short afterglow. Specially supporting Double z-Sampling of z-Sharp Technology. Optimal for sub-second and multislice acquisition.*

CARE Dose4D – minimizing dose, maximizing quality – patient by patient

Achieve the best diagnostic image quality at lowest possible dose, independent of patient size and anatomy

Fully automated dose management for adults and children with up to 66% dose reduction

Pediatric protocols

Special clinical protocols with 120 or 80 kV selection and a wide range of mAs settings. The X-ray exposure is adapted to the child's (and small adult's) weight and age, substantially reducing the effective patient dose.

CARE Solutions

CARE Bolus CT

Scan mode for contrast bolus triggered data acquisition

Significant improvement of the planning procedure and diagnosis by enabling an optimum spiral scan start after contrast injection

The procedure is based on repetitive low dose monitoring scans at one slice level and analysis of the time density curve in a Region of Interest (ROI)

ECG Pulsing

Dose modulated cardiac spiral for dose reduction during the systolic heart phase (Part of the HeartView CT* package with retrospective ECG gating). Up to 50% dose savings for the patient.

CARE Filter

Specially designed X-ray exposure filter installed at the tube collimator. Up to 25% dose reduction with increased image quality.

CARE Vision CT with HandCARE*

Perform interventions at the CT scanner with real-time image guidance, including CT fluoroscopic mode. Simultaneous display of 3 slices for optimal navigation.

Real-time image guidance

Image rate up to 10 frames/s

Image matrix 512 x 512

Foot switch. Radiation release directly at the gantry.

Additional monitor. For parallel image display in the examination room.

Additional monitor

Flat screen monitor 46 cm (18.1")

Distance from host max. 30 m

HandCARE

Real-time dose modulation during the CT-guided intervention. The tube current is automatically switched off to avoid direct X-ray exposure to the physician's hands. HandCARE yields dose savings of up to 70% for the physician and up to 30% for the patient.

Installation

Dimensions				
Components	Height (mm)	Width (mm)	Length (mm)	Weight (kg)
<i>Gantry</i>	≤ 1,990	≤ 940	≤ 2,280	≤ 2,000
<i>Patient table</i>	≤ 1,022	≤ 690	≤ 2,430	≤ 500
<i>Operator's console</i>	≤ 720	≤ 800	≤ 1,400	≤ 65
<i>Power cabinet</i>	≤ 1,815	≤ 905	≤ 800	≤ 550
<i>Cooling system</i>	≤ 1,815	≤ 905	≤ 860 w/w	≤ 200 w/w
			≤ 900 w/a	≤ 400 w/a
<i>Image Recon. System</i>	≤ 1,550	≤ 610	≤ 610	≤ 120
Computer system				
<i>Navigator</i>	≤ 500	≤ 250	≤ 600	≤ 30
<i>Wizard</i>	≤ 500	≤ 250	≤ 600	≤ 30

Installation

Power supply	
Nominal voltage 3/N~	380–480 V in 20 V steps
Nominal line frequency	50; 60 Hz
Line impedance	130–180 mOhm (dependent on voltage)
Nominal power	104 kVA (w/w)
connection*	111 kVA (w/a)
Line fuse protection	fuse 125 A selectivity 1:1.6
Power consumption	
Computer on	2 kVA
System on standby	
w/w	8 kVA
w/a	10 kVA
Scanning (operation for 12 s)	
w/w	104 kVA
w/a	111 kVA
Scanning (operation for 100 s)	
w/w	60 kVA
w/a	63 kVA
Examination room environment	
Temperature range	15–28 °C
Relative air humidity without condensation	15–75%

Cooling	
Heat dissipation to water cooling environment (only w/w cooler)	max. 15 kW
Heat dissipation to outside air (only w/a cooler)	max. 26 kW
Electromagnetic compatibility	
This product is in compliance with IEC 60601-1-2 and fulfils CISPR 11 Class A	
Surface area for installation	
System	30 m ²
Emissions class	according to IEC 601-1-2
Protection against input power fluctuation/interruptions	
X-ray	5 ms
Controllers	20 ms
Image Reconstruction	180 s
System, Navigator and Wizard	optional with UPS**
Fluctuation	
Nominal voltage	± 10%
Nominal frequency	± 5%

w/w = water/water; w/a = water/air**

* Power consumption – notice: If pretransformer needed, at least 10% more power: 125 kVA

** Optional

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Please find fitting accessories:
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Solutions that help

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